

		23 September, Tuesday (SE Day 1)	24 September, Wednesday					25 September, Thursday					26 September, Friday					27 September, Saturday (SE Day 2)					
		DCC 1 - DCC 2 - IBS				DCC 1		DCC II		DCC 1				DCC II		DCC 1			DCC II		DCC 1 - DCC 2 - IBS		
8:00		SE session 1	Main Hall (201-202)	Dual Session (112)	(101-108)	(101-108, 111)	Exhibition	Main Hall (201-202)	Dual Session (112)	(101-108)	Room 301	Exhibition	Main Hall (201-202)	Dual Session (112)	(101-108)	Room 301	Exhibition	DCC 1 - DCC 2 - IBS					
8:30			Opening																				
9:00			Keynote 1 (JH Lee)						Oral 7	Oral 8			CLINICCAI Session1		Oral 13	Oral 14							
9:30									Keynote 3 (X Zhao)						Keynote 4 (C Langlotz)								
10:00		Coffee Break @ DCC II		Coffee Break @ DCC II					Coffee Break @ DCC II					Coffee Break @ DCC II					Coffee Break @ DCC II				
10:30		SE session 2	Oral 1	Oral 2			Exhibition	Coffee Break @ DCC II				Coffee Break @ DCC II				SE session 6							
11:00										CLINICCAI poster	Poster 2			Poster 4									
11:30			Lunch			(WIM)			Lunch		(MSB)			Lunch	(RISE)								
12:00																							
12:30		Lunch Break		Keynote 2 (H Hong)			Exhibition	Board Candidates Lighthouse Challenge			Session 2	Exhibition	MICCAI2025 Theme Special Session 1			Open Data Initiative	Exhibition	Lunch Break					
13:00								Oral 9	Oral 10					Coffee Break @ DCC II									
13:30		SE session 3	Oral 3	Oral 4				Coffee Break @ DCC II		Coffee Break @ DCC II			Session 3	Poster 3	MICCAI2025 Theme Special Session 2					Open Data Initiative	Poster 5		
14:00						Poster 1 / PhD Consortium																	
14:30																							
15:00			Coffee Break @ DCC II					Exhibition	Oral 5	Oral 6	MSB Panel	Panel 1			Exhibition	Oral 11	Oral 12		CLINICCAI Panel	Exhibition		SE session 8	
15:30		Coffee Break @ DCC II																					
16:00		SE session 4																					
16:30																							
17:00		Welcome Reception		MSB Networking			Exhibition					Exhibition	Awards / Closing										
17:30																							
18:00																							
18:30																							
19:00								Fellow Awards / Gala Dinner @Hanbit 7:00-11:00 PM															
19:30																							
20:00																							
20:30																							
21:00																							
22:00																							

MICCAI 2025: Main Conference Program

Last update: Aug 25, 2025

Oral and Spotlight Presentations

Oral & Spotlight Session 1: Augmented Reality and Video Generation Wednesday, September 24, 2025, 10:30 to 12:00 Main Hall - DCC1 Building - Room 201/202 Session Chairs: Ruogu Fang, University of Florida, United States Cheng Ouyang, University of Oxford, United Kingdom	Oral & Spotlight Session 2: Language Models - Text and Images Wednesday, September 24, 2025, 10:30 to 12:00 Dual Track Hall - DCC1 Building - Room 112 Session Chairs: Ke Zou, National University of Singapore, Singapore Keewon Shin, University of Ulsan, Asan Medical Center, Republic of Korea
<u>Spotlight Presentations:</u> 3D Dynamic Prediction of Missing Teeth in Diverse Patterns via Centroid-prompted Diffusion Model <i>Authors:</i> Zongrui Ji, Na Li, Peng Xue, Yi Dong, Lei Ma <i>Speaker:</i> Lei Ma, Tongji University, China Multi-expert collaboration and knowledge enhancement network for multimodal emotion recognition <i>Authors:</i> Kun Wang, Junyong Zhao, Liying Zhang, Qi Zhu, Daoqiang Zhang <i>Speaker:</i> Kun Wang, Nanjing University of Aeronautics and Astronautics, China MedGround-R1: Advancing Medical Image Grounding via Spatial-Semantic Rewarded Group Relative Policy Optimization <i>Authors:</i> Huihui Xu, Yuanpeng Nie, Hualiang Wang, Ying Chen, Wei Li, Junzhi Ning, Lihao Liu, Hongqiu Wang, Lei Zhu, Jiyao Liu, Xiaomeng Li, Junjun He <i>Speaker:</i> Huihui Xu, Shanghai AI Lab, China tHPM-LDM: Integrating Individual Historical Record with Population Memory in Latent Diffusion-based Glaucoma Forecasting <i>Authors:</i> Yuheng Fan, Jianyang Xie, Yimin Luo, Yanda Meng, Savita Madhusudhan, Gregory Y.H. Lip, Li Cheng, Yalin Zheng, He Zhao <i>Speaker:</i> Yuheng Fan, University of Liverpool, United Kingdom Lymphoma Prognosis with Lesion-Anatomy Context Fusion and Attention-Based Multi-Lesion Aggregation <i>Authors:</i> Song Zhang, Jiajin Zhang, Liheng Qiu, Wei Liu, Dakai Jin, Le Lu, Shenmiao Yang, Ke Yan <i>Speaker:</i> Ke Yan, DAMO Academy, Alibaba Group, China Occlusion-free 4D Gaussians for Open Surgery Videos Using Multi-Camera Shadowless Lamps <i>Authors:</i> Yuna Kato, Shohei Mori, Hideo Saito, Yoshifumi Takatsume, Hiroki Kajita, Mariko Isogawa <i>Speaker:</i> Mariko Isogawa, Keio University, Japan	<u>Spotlight Presentations:</u> DiffAtlas: GenAI-fying Atlas Segmentation via Image-Mask Diffusion <i>Authors:</i> Hantao Zhang, Yuhe Liu, Jiancheng Yang, Weidong Guo, Xinyuan Wang, Pascal Fua <i>Speaker:</i> Hantao Zhang, EPFL, Switzerland Guiding Registration with Emergent Similarity from Pre-Trained Diffusion Models <i>Authors:</i> Nurislam Tursynbek, Hastings Greer, Başar Demir, Marc Niethammer <i>Speaker:</i> Marc Niethammer, UCSD, United States Global and Local Vision-Language Alignment for Few-Shot Learning and Few-Shot OOD Detection <i>Authors:</i> Jie Yan, Xiaoyuan Guan, Wei-Shi Zheng, Hao Chen, Ruixuan Wang <i>Speaker:</i> Jie Yan, Sun Yat-sen University, China UniMRG: Refining Medical Semantic Understanding Across Modalities via LLM-Orchestrated Synergistic Evolution <i>Authors:</i> Hongyan Xu, Arcot Sowmya, Ian Katz, Dadong Wang <i>Speaker:</i> Hongyan Xu, University of New South Wales, Australia HyperPath: Knowledge-Guided Hyperbolic Semantic Hierarchy Modeling for WSI Analysis <i>Authors:</i> Peixiang Huang, Yanyan Huang, Weiqin Zhao, Junjun He, Lequan Yu <i>Speaker:</i> Peixiang Huang, The University of Hong Kong, Hong Kong SAR Towards Robust Medical Image Referring Segmentation with Incomplete Textual Prompts <i>Authors:</i> Qijie Wang, Xian Lin, Zengqiang Yan <i>Speaker:</i> Xian Lin, Huazhong University of Science and Technology, China

<u>Oral Presentations:</u> Intelligent Virtual Sonographer (IVS): Enhancing Physician-Robot-Patient Communication <i>Authors:</i> Tianyu Song, Feng Li, Yuan Bi, Angelos Karlas, Amir Yousefi, Daniela Branzan, Zhongliang Jiang, Ulrich Eck, Nassir Navab <i>Speaker:</i> Tianyu Song, Technical University of Munich, Germany Ophora: A Large-Scale Data-Driven Text-Guided Ophthalmic Surgical Video Generation Model <i>Authors:</i> Wei Li, Ming Hu, Guoan Wang, Lihao Liu, Kaijing Zhou, Junzhi Ning, Xin Guo, Zongyuan Ge, Lixu Gu, Junjun He <i>Speaker:</i> Wei Li, Shanghai Jiao Tong University, China HieraSurg: Hierarchy-Aware Diffusion Model for Surgical Video Generation <i>Authors:</i> Diego Biagini, Nassir Navab, Azade Farshad <i>Speaker:</i> Diego Biagini, Technical University of Munich, Germany Unsupervised Cardiac Video Translation Via Motion Feature Guided Diffusion Model <i>Authors:</i> Swakshar Deb, Nian Wu, Frederick H. Epstein, Miaomiao Zhang <i>Speaker:</i> Swakshar Deb, University of Virginia, United States HoloPointNet: A Deep Learning Framework for Efficient 3D Point Cloud Holography <i>Authors:</i> Ankit Amrutkar, Ahmet Nazlioglu, Björn Kampa, Volkmar Schulz, Johannes Stegmaier, Markus Rothermel, Dorit Merhof <i>Speaker:</i> Ankit Amrutkar, RWTH Aachen University, Germany Augmented Reality-based Guidance with Deformable Registration in Head and Neck Tumor Resection <i>Authors:</i> Qingyun Yang, Fangjie Li, Jiayi Xu, Zixuan Liu, Sindhura Sridhar, Whitney Jin, Jennifer Du, Jon Heiselman, Michael Miga, Michael Topf, Jie Ying Wu <i>Speaker:</i> Qingyun Yang, Vanderbilt University, United States	<u>Oral Presentations:</u> Historical Report Guided Bi-modal Concurrent Learning for Pathology Report Generation <i>Authors:</i> Ling Zhang, Boxiang Yun, Qingli Li, Yan Wang <i>Speaker:</i> Ling Zhang, East China Normal University, China WSI-Agents: A Collaborative Multi-Agent System for Multi-Modal Whole Slide Image Analysis <i>Authors:</i> Xinheng Lyu, Yuci Liang, Wenting Chen, Meidan Ding, Jiaqi Yang, Guolin Huang, Daokun Zhang, Xiangjian He, Linlin Shen <i>Speaker:</i> Xinheng Lyu, University of Nottingham Ningbo China, China RAPTOR: Generative AI for Parsing Colorectal Cancer Referrals to Streamline Faster Diagnostic Standard Pathways <i>Authors:</i> Sofiat Abioye, Shazad Ashraf, Junaid Qadir, Adam Byfield, Anusha Jose, William Poulett, Ben Wallace, Adil Butt, Colm Forde, Marcus Mottershead, Simon Fallis, Andrew Beggs, Aneel Bhangu, Lukman Akanbi, Muhammad Bilal <i>Speaker:</i> Sofiat Abioye, Birmingham City University, United Kingdom TRRG: Towards Truthful Radiology Report Generation with Cross-modal Disease Clue Enhanced Large Language Models <i>Authors:</i> Yuhao Wang, Yue Sun, Tao Tan, Chao Hao, Yawen Cui, Xinqi Su, Weichen Xie, Linlin Shen, Zitong Yu <i>Speaker:</i> Yuhao Wang, University of Science and Technology of China, China A Multimodal Contrastive Learning for Detecting Aortic Dissection on 3D Non-Contrast CT with Anatomy Simplification <i>Authors:</i> Duoer Zhang, Wenbo Xiao, Chen Jiang, Yuxuan Qiu, Zhan Feng, Hong Wang, Yefeng Zheng, Wentao Zhu <i>Speaker:</i> Duoer Zhang, Zhejiang Lab, China LEAVS: An LLM-based Labeler for Abdominal CT Supervision <i>Authors:</i> Ricardo Bigolin Lanfredi, Yan Zhuang, Mark Finkelstein, Praveen Thoppey Srinivasan Balamuralikrishna, Luke Krembs, Brandon Khoury, Arthi Reddy, Pritam Mukherjee, Neil M. Rofsky, Ronald M. Summers <i>Speaker:</i> Ricardo Bigolin Lanfredi, National Institutes of Health, United States
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Oral Session 3: Image Contextualization and Multimodal Fusion Wednesday, September 24, 2025, 14:30 to 15:30 Main Hall - DCC1 Building - Room 201/202 Session Chairs: Tanveer Syeda-Mahmood, IBM Research & Stanford University, United States Yutong Xie, MBZUAI, United Arab Emirates	Oral Session 4: Detection, Segmentation, and Registration Wednesday, September 24, 2025, 14:30 to 15:30 Dual Track Hall - DCC1 Building - Room 112 Session Chairs: Johannes C. Paetzold, Cornell University, United States Zhe Xu, The Chinese University of Hong Kong, Hong Kong SAR
Multimodal Fusion Network with Distribution-based Tumor-Marker Imputation for Multi-Origin Metastatic Cervical Lymphadenopathy Classification <i>Authors:</i> Rui Li, Chunyan Li, Xi Lin, Jinfeng Xu, Fang Li, Yao Lu <i>Speaker:</i> Rui Li, Sun Yat-sen University, China A Holistic Time-Aware Classification Model for Multimodal Longitudinal Patient Data <i>Authors:</i> Tobias Susetzky, Huaqi Qiu, Rickmer Braren, Daniel Rueckert <i>Speaker:</i> Tobias Susetzky, Technical University of Munich, Germany Deep Association Multimodal Learning for Zero-shot Spatial Transcriptomics Prediction <i>Authors:</i> Yijing Zhou, Yadong Lu, Qingli Li, Xinxing Li, Yan Wang <i>Speaker:</i> Yijing Zhou, East China Normal University, China Blood Pressure Assisted Cerebral Microbleed Segmentation via Meta-matching <i>Authors:</i> Junmo Kwon, Jonghun Kim, Taehyeon Kim, Sang Won Seo, Hwan-ho Cho, Hyunjin Park <i>Speaker:</i> Junmo Kwon, Sungkyunkwan University, Republic of Korea FoundBioNet: A Foundation-Based Model for IDH Genotyping of Glioma from Multi-Parametric MRI <i>Authors:</i> Somayeh Farahani, Marjaneh Hejazi, Antonio Di Ieva, Sidong Liu <i>Speaker:</i> Somayeh Farahani, Macquarie University, Australia	Automated Characterization of Myocardial Scar Topological Patterns for Ventricular Tachycardia Screening <i>Authors:</i> Xicheng Sheng, Yang Zhang, Lei Li, Bailiang Chen, Freddy Odille, Xiahai Zhuang <i>Speaker:</i> Lei Li, National University of Singapore, Singapore Fit Pixels, Get Labels: Meta-Learned Implicit Networks for Image Segmentation <i>Authors:</i> Kushal Vyas, Ashok Veeraraghavan, Guha Balakrishnan <i>Speaker:</i> Kushal Vyas, Rice University, United States HybridMamba: A Dual-domain Mamba for 3D Medical Image Segmentation <i>Authors:</i> Weitong Wu, Zhaohu Xing, Jing Gong, Qin Peng, Lei Zhu <i>Speaker:</i> Weitong Wu, The Hong Kong University of Science and Technology (Guangzhou), China Abnormality-Driven Representation Learning for Radiology Imaging <i>Authors:</i> Marta Ligeró, Tim Lenz, Georg Wölflein, Omar S. M. El Nahhas, Daniel Truhn, Jakob Nikolas Kather <i>Speaker:</i> Marta Ligeró, EKFZ for Digital Health & TU Dresden, Germany MARSeg: Enhancing Medical Image Segmentation with MAR and Adaptive Feature Fusion <i>Authors:</i> Jeonghyun Hwang, Seungyeon Rhee, Minjeong Kim, Thanaporn Viriyasaranon, Jang-Hwan Choi <i>Speaker:</i> Jeonghyun Hwang, Ewha Womans University, Republic of Korea

Oral & Spotlight Session 5: Navigation and Surgical Workflows Wednesday, September 24, 2025, 17:00 to 18:30 Main Hall - DCC1 Building - Room 201/202 Session Chairs: Yueming Jin, National University of Singapore, Singapore Leo Joskowicz, The Hebrew University, Israel	Oral & Spotlight Session 6: Towards Deployment, Bias, Trustworthiness, and Privacy Wednesday, September 24, 2025, 17:00 to 18:30 Dual Track Hall - DCC1 Building - Room 112 Session Chairs: Hongwei Bran Li, National University of Singapore, Singapore Qingjie Meng, University of Birmingham, United Kingdom
<u>Spotlight Presentations:</u> Towards Automated Pediatric Dental Development Staging: A Dataset and Model <i>Authors:</i> Peng Wang, Along He, Anli Wang, Zhenhuan Zhou, Xiaohang Guan, Tao Li <i>Speaker:</i> Peng Wang, Nankai University, China Sequence-Independent Continual Test-Time Adaptation with Mixture of Incremental Experts for Cross-Domain Segmentation <i>Authors:</i> Dunyuan Xu, Yuchen Yuan, Donghao Zhou, Xikai Yang, Jingyang Zhang, Jinpeng Li, Pheng-Ann Heng <i>Speaker:</i> Dunyuan Xu, The Chinese University of Hong Kong, Hong Kong SAR ProgreSpine: Inherently Explainable Prototypical Regression for Spine Age Estimation <i>Authors:</i> Roozbeh Bazargani, Saqib Basar, Sam Hashemi, Siavash Khallaghi <i>Speaker:</i> Sam Hashemi, Prenuvo Inc, Canada MixStyleFlow: Domain Generalization in Medical Image Segmentation using Normalizing Flows <i>Authors:</i> Reza Safdari, Mohammad-Ali Nikouei Mahani, Mohamad Koohi-Moghadam, Kyongtae Tyler Bae <i>Speaker:</i> Reza Safdari, The University of Hong Kong, Hong Kong SAR Deep Learning Framework for Managing Inter-Reader Variability in Background Parenchymal Enhancement Classification for Contrast-Enhanced Mammography <i>Authors:</i> Elodie Ripaud, Clément Jailin, Pablo Milioni de Carvalho, Laurence Vancamberg, Isabelle Bloch <i>Speaker:</i> Elodie Ripaud, GE HealthCare, France FedCLAM: Client Adaptive Momentum with Foreground Intensity Matching for Federated Medical Image Segmentation <i>Authors:</i> Vasilis Siomos, Jonathan Passerat-Palmbach, Giacomo Tarroni <i>Speaker:</i> Vasilis Siomos, City St. George's, University of London, United Kingdom	<u>Spotlight Presentations:</u> VesselVerse: A Dataset and Collaborative Framework for Vessel Annotation <i>Authors:</i> Daniele Falcetta, Vincenzo Marciano, Kaiyuan Yang, Jon Cleary, Loïc Legris, Massimiliano Domenico Rizzaro, Ioannis Pitsiorlas, Hava Chaptoukaev, Benjamin Lemasson, Bjoern Menze, Maria A. Zuluaga <i>Speaker:</i> Daniele Falcetta, EURECOM, France Query-Level Alignment for End-to-End Lesion Detection with Human Gaze <i>Authors:</i> Yan Kong, Zhixiang Peng, Yuan Yin, Yonghao Li, Jiangdong Cai, Sheng Wang, Qian Wang, Yuqi Fang, Caifeng Shan <i>Speaker:</i> Yuqi Fang, Nanjing University, China Bias and Generalizability of Foundation Models across Datasets in Breast Mammography <i>Authors:</i> Elodie Germani, Ilayda Selin-Türk, Fatima Zeineddine, Charbel Mourad, Shadi Albarqouni <i>Speaker:</i> Shadi Albarqouni, University of Bonn, Germany Training-free Test-time Improvement for Explainable Medical Image Classification <i>Authors:</i> Hangzhou He, Jiachen Tang, Lei Zhu, Kaiwen Li, Yanye Lu <i>Speaker:</i> Hangzhou He, Peking University, China A flexible deep learning framework for survival analysis with medical data <i>Authors:</i> Gabriele Campanella, Ida Häggström, Lucas Kook, Torsten Hothorn, Thomas J. Fuchs <i>Speaker:</i> Ida Häggström, Chalmers University of Technology, Sweden MELON: Multimodal Mixture-of-Experts with Spectral-Temporal Fusion for Long-Term MObility EstimatioN in Critical Care <i>Authors:</i> Jiaqing Zhang, Miguel Contreras, Jessica Sena, Andrea Davidson, Yuanfang Ren, Ziyuan Guan, Tezcan Ozrazgat-Baslanti, Tyler J. Loftus, Subhash Nerella, Azra Bihorac, Parisa Rashidi <i>Speaker:</i> Subhash Nerella, University of Florida, United States

<u>Oral Presentations:</u> Towards Markerless Intraoperative Tracking of Deformable Spine Tissue <i>Authors:</i> Connor Daly, Elettra Marconi, Marco Riva, Jinendra Ekanayake, Daniel S. Elson, Ferdinando Rodriguez y Baena <i>Speaker:</i> Connor Daly, Imperial College London, United Kingdom Multi-modal Representations for Fine-grained Multi-label Critical View of Safety Recognition <i>Authors:</i> Britty Baby, Vinkle Srivastav, Pooja P. Jain, Kun Yuan, Pietro Mascagni, Nicolas Padoy <i>Speaker:</i> Britty Baby, University of Strasbourg, France MedAgentSim: Self-Evolving Multi-Agent Simulations for Realistic Clinical Interactions <i>Authors:</i> Mohammad Almansoori, Komal Kumar, Hisham Cholakkal <i>Speaker:</i> Mohammad Almansoori, Mohamed bin Zayed University of Artificial Intelligence, United Arab Emirates EndoMamba: An Efficient Foundation Model for Endoscopic Videos via Hierarchical Pre-training <i>Authors:</i> Qingyao Tian, Huai Liao, Xinyan Huang, Bingyu Yang, Dongdong Lei, Sebastien Ourselin, Hongbin Liu <i>Speaker:</i> Qingyao Tian, Institute of Automation, Chinese Academy of Sciences, China Half-SAM: SAM-based Haustral Fold Detection In Colonoscopy with Debris Suppression and Temporal Consistency <i>Authors:</i> Mayank Golhar, Luojie Huang, Nicholas J. Durr <i>Speaker:</i> Mayank Golhar, Johns Hopkins University, United States SAMSA: Segment Anything Model enhanced with Spectral Angles for Hyperspectral Interactive Medical Image Segmentation <i>Authors:</i> Alfie Roddan, Tobias Czempiel, Chi Xu, Daniel S. Elson, Stamatia Giannarou <i>Speaker:</i> Alfie Roddan, Imperial College London, United Kingdom	<u>Oral Presentations:</u> Maverick: Collaboration-free Federated Unlearning for Medical Privacy <i>Authors:</i> Win Kent Ong, Chee Seng Chan <i>Speaker:</i> Win Kent Ong, Universiti Malaya, Malaysia Variational Visible Layers: A Practical Framework for Uncertainty Estimation <i>Authors:</i> Zeinab Abboud, Herve Lombaert, Samuel Kadoury <i>Speaker:</i> Zeinab Abboud, Polytechnique Montreal, Canada On the Interplay of Human-AI Alignment, Fairness, and Performance Trade-offs in Medical Imaging <i>Authors:</i> Haozhe Luo, Ziyu Zhou, Shelley Zixin Shu, Aurélie Pahud de Mortanges, Robert Berke, Mauricio Reyes <i>Speaker:</i> Haozhe Luo, University of Bern, Switzerland Mutual Information Regularization for Fairness-aware Deep Imaging Representations <i>Authors:</i> Amir Reza Sadri, Thomas DeSilvio, Satish E. Viswanath <i>Speaker:</i> Amir Reza Sadri, Case Western Reserve University, United States Adaptive Frame Selection for Gestational Age Estimation from Blind Sweep Fetal Ultrasound Videos <i>Authors:</i> Tanya Akumu, Marawan Elbatel, Victor M. Campello, Richard Osuala, Carlos Martin-Isla, Ignacio Valenzuela, Xiaomeng Li, Bishesh Khanal, Karim Lekadir <i>Speaker:</i> Tanya Akumu, University of Barcelona, Spain Toward Medical Deepfake Detection: A Comprehensive Dataset and Novel Method <i>Authors:</i> Shuaibo Li, Zhaohu Xing, Hongqiu Wang, Pengfei Hao, Xingyu Li, Zekai Liu, Lei Zhu <i>Speaker:</i> Shuaibo Li, The Hong Kong University of Science and Technology (Guangzhou), China
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Oral Session 7: Data Quality, Restoration, and Super-resolution Thursday, September 25, 2025, 8:30 to 9:30 Main Hall - DCC1 Building - Room 201/202 Session Chairs: Davood Karimi, Harvard Medical School, United States Kyung Sung, University of California, Los Angeles (UCLA), United States	Oral Session 8: Explainability and Interpretability Thursday, September 25, 2025, 8:30 to 9:30 Dual Track Hall - DCC1 Building - Room 112 Session Chairs: Hao Chen, Hong Kong University of Science and Technology, Hong Kong SAR Zulqarnain Gilani, Edith Cowan University, Australia
Directional Adaptive Shuffle-Based Visual State-Space Models for Medical Image Restoration <i>Authors:</i> Simon C. K. Chan, Lulin Shi, Bingxin Huang, Terence T. W. Wong <i>Speaker:</i> Simon C. K. Chan, The Hong Kong University of Science and Technology, Hong Kong SAR Advancing Medical Representation Learning Through High-Quality Data <i>Authors:</i> Negin Baghbanzadeh, Adibvafa Fallahpour, Yasaman Parhizkar, Franklin Ogidi, Shuvendu Roy, Sajad Ashkezari, Vahid Reza Khazaie, Michael Colacci, Ali Etemad, Arash Afkanpour, Elham Dolatabadi <i>Speaker:</i> Negin Baghbanzadeh, York University, Canada BayeSMM: Robust Deep Combined Computing Tackling Heavy-tailed Distribution in Medical Images <i>Authors:</i> Yuanye Liu, Ruoxuan Zhen, Shangqi Gao, Xinzhe Luo, Xin Gao, Qingchao Chen, Xiahai Zhuang <i>Speaker:</i> Yuanye Liu, Fudan University, China TESLA: Test-time Reference-free Through-plane Super-resolution for Multi-contrast Brain MRI <i>Authors:</i> Yoonseok Choi, Sunyoung Jung, Mohammed A. Almasni, Ming-Hsuan Yang, Dong-Hyun Kim <i>Speaker:</i> Yoonseok Choi, Yonsei University, Republic of Korea Robust Deep Learning for Myocardial Scar Segmentation in Cardiac MRI with Noisy Labels <i>Authors:</i> Aida Moafi, Danial Moafi, Evgeny M. Mirkes, Gerry P. McCann, Abbas S. Alatrany, Jayanth Ranjit Arnold, Mostafa Mehdipour Ghazi <i>Speaker:</i> Aida Moafi, University of Leicester, United Kingdom	An Anatomical Significance-Aware Architecture for Explainable Myocardial Infarction Prediction via Multi-Task Learning <i>Authors:</i> Jiachuan Peng, Marcel Beetz, Abhirup Banerjee, Min Chen, Vicente Grau <i>Speaker:</i> Jiachuan Peng, University of Oxford, United Kingdom Uncertainty-Supervised Interpretable and Robust Evidential Segmentation <i>Authors:</i> Yuzhu Li, An Sui, Fuping Wu, Xiahai Zhuang <i>Speaker:</i> An Sui, Fudan University, China Automated Detection of BK Virus in H&E Whole-Slide Images Using Weakly-Supervised Deep Learning and Interpretable Morphological Biomarkers <i>Authors:</i> Sharifa Sahai, Ana D. Ramos-Guerra, Cristina Almagro-Pérez, Guillaume Jaume, Andrew Zhang, Helmut Rennke, Astrid Weins, Juan E. Ortuño, Maria J. Ledesma-Carbayo, Faisal Mahmood <i>Speakers:</i> Sharifa Sahai, Harvard Medical School and Ana D. Ramos-Guerra, Universidad Politécnica de Madrid, Spain X-SiT: Inherently Interpretable Surface Vision Transformers for Dementia Diagnosis <i>Authors:</i> Fabian Bongratz, Tom Nuno Wolf, Jaume Gual Ramon, Christian Wachinger <i>Speaker:</i> Fabian Bongratz, Technical University of Munich, Germany Latent Motion Profiling for Annotation-free Cardiac Phase Detection in Adult and Fetal Echocardiography Videos <i>Authors:</i> Yingyu Yang, Qianye Yang, Kangning Cui, Can Peng, Elena D’Alberti, Netzahualcoyotl Hernandez-Cruz, Olga Patey, Aris T. Papageorghiou, J. Alison Noble <i>Speaker:</i> Yingyu Yang, University of Oxford, United Kingdom

Oral Session 9: Generalizability and Adaptation Thursday, September 25, 2025, 14:30 to 15:30 Main Hall - DCC1 Building - Room 201/202 Session Chairs: Peirong Liu, Johns Hopkins University, United States Guotai Wang, University of Electronic Science and Technology of China, China	Oral Session 10: Multimodal and Longitudinal Prediction Thursday, September 25, 2025, 14:30 to 15:30 Dual Track Hall - DCC1 Building - Room 112 Session Chairs: Jang-Hwan Choi, Ewha Womans University, Republic of Korea Chenyu You, Stony Brook University, United States
tCURLoRA: Tensor CUR Decomposition Based Low-Rank Parameter Adaptation and Its Application in Medical Image Segmentation <i>Authors:</i> Guanghua He, Wangang Cheng, Hancan Zhu, Xiaohao Cai, Gaohang Yu <i>Speaker:</i> Guanghua He, Shaoxing University, China Reverse Imaging for Wide-spectrum Generalization of Cardiac MRI Segmentation <i>Authors:</i> Yidong Zhao, Peter Kellman, Hui Xue, Tongyun Yang, Yi Zhang, Yuchi Han, Orlando Simonetti, Qian Tao <i>Speaker:</i> Yidong Zhao, Delft University of Technology, the Netherlands Frequency Strikes Back: Boosting Parameter-Efficient Foundation Model Adaptation for Medical Imaging <i>Authors:</i> Son T. Ly, Hien V. Nguyen <i>Speaker:</i> Son T. Ly, University of Houston, United States Tied Prototype Model for Few-Shot Medical Image Segmentation <i>Authors:</i> Hyeongji Kim, Stine Hansen, Michael Kampffmeyer <i>Speaker:</i> Hyeongji Kim, The Arctic University of Norway, Norway Sparsely Labeled fMRI Data Denoising with Meta-Learning-Based Semi-Supervised Domain Adaptation <i>Authors:</i> Keun-Soo Heo, Ji-Wung Han, Soyeon Bak, Minjoo Lim, Bogyong Kang, Sang-Jun Park, Weili Lin, Han Zhang, Dinggang Shen, Tae-Eui Kam <i>Speaker:</i> Keun-Soo Heo, Korea University, Republic of Korea	Multi-scale Attention-based Multiple Instance Learning for Breast Cancer Diagnosis <i>Authors:</i> Mariana Mourão, Jacinto C. Nascimento, Carlos Santiago, Margarida Silveira <i>Speaker:</i> Mariana Mourão, Institute for Systems and Robotics, Instituto Superior Técnico, Portugal Parameterized Diffusion Optimization enabled Autoregressive Ordinal Regression for Diabetic Retinopathy Grading <i>Authors:</i> Qinkai Yu, Wei Zhou, Hantao Liu, Yanyu Xu, Meng Wang, Yitian Zhao, Huazhu Fu, Xujiang Ye, Yalin Zheng, Yanda Meng <i>Speaker:</i> Qinkai Yu, University of Exeter, United Kingdom Attention-Based Multimodal Deep Learning Model for Post-Stroke Motor Impairment Prediction <i>Authors:</i> Rukiye Karakis, Kali Gurkahraman, Georgios D. Mitsis, Marie-Hélène Boudrias <i>Speaker:</i> Rukiye Karakis, Sivas Cumhuriyet University, Turkey DISCLOSE the Neurodegeneration Dynamics: Individualized ODE Discovery for Alzheimer’s Disease Precision Medicine <i>Authors:</i> Wooseok Jung, Joonhyuk Park, Won Hwa Kim <i>Speaker:</i> Joonhyuk Park, Pohang University of Science and Technology, Republic of Korea From Pixels to Prognosis: A Multi-Modal Attention-based Framework for Visceral Adipose Tissue Estimation <i>Authors:</i> Arooba Maqsood, Afsah Saleem, Marc Sim, David Suter, Simone Radavelli-Bagatini, Jonathan M. Hodgson, Richard L. Prince, Kun Zhu, William D. Leslie, John T. Schousboe, Joshua R. Lewis, Syed Zulqarnain Gilani <i>Speaker:</i> Arooba Maqsood, Edith Cowan University, Australia

Oral & Spotlight Session 11: Graphs - Learning and Data Thursday, September 25, 2025, 17:00 to 18:30 Main Hall - DCC1 Building - Room 201/202 Session Chairs: Angelica Aviles-Rivero, Tsinghua University, China Jelmer Wolterink, University of Twente, the Netherlands	Oral & Spotlight Session 12: Reconstruction and Synthesis Thursday, September 25, 2025, 17:00 to 18:30 Dual Track Hall - DCC1 Building - Room 112 Session Chairs: Cosmin I. Bercea, Technical University of Munich, Germany Chuyang Ye, Beijing Institute of Technology, China
<u>Spotlight Presentations:</u> PathVG: A New Benchmark and Dataset for Pathology Visual Grounding <i>Authors:</i> Chunlin Zhong, Shuang Hao, Junhua Wu, Xiaona Chang, Jiwei Jiang, Xiu Nie, He Tang, Xiang Bai <i>Speaker:</i> Shuang Hao, Huazhong University of Science and Technology, China Endoscopic Artifact Inpainting for Improved Endoscopic Image Segmentation <i>Authors:</i> Zhangyuan Yu, Chenlin Du, Hongrui Liang, Xiuqi Zheng, Zeyao Ma, Mingjun Wu, Mingwu Ao, Qicheng Lao <i>Speaker:</i> Qicheng Lao, Beijing University of Posts and Telecommunications, China DEFUSE-MS: Deformation Field-Guided Spatiotemporal Graph-Based Framework for Multiple Sclerosis New Lesion Detection <i>Authors:</i> Mostafa Salem, Salma Hassan, Vijay Ram Kumar Papineni, Ayman Elsayed, Mohammad Yaqub <i>Speaker:</i> Mostafa Salem, Mohamed Bin Zayed University of Artificial Intelligence, United Arab Emirates Bipartite Patient-Modality Graph Learning with Event-Conditional Modelling of Censoring for Cancer Survival Prediction <i>Authors:</i> Hailin Yue, Hulin Kuang, Jin Liu, Junjian Li, Lanlan Wang, Mengshen He, Jianxin Wang <i>Speaker:</i> Hailin Yue, Central South University, China Stronger Together: Registering Preoperative Imagery, LUS, and MIS Liver Images <i>Authors:</i> Mohammad Mahdi Kalantari, Erol Ozgur, Mohammad Alkhatib, Navid Rabbani, Yamid Espinel, Richard Modrzejewski, Bertrand Le Roy, Emmanuel Buc, Youcef Mezouar, Adrien Bartoli <i>Speaker:</i> Mohammad Mahdi Kalantari, Clermont-Auvergne INP, France A Novel Streamline-based diffusion MRI Tractography Registration Method with Probabilistic Keypoint Detection <i>Authors:</i> Junyi Wang, Mubai Du, Ye Wu, Yijie Li, William M. Wells III, Lauren J. O'Donnell, Fan Zhang <i>Speaker:</i> Junyi Wang, UESTC, China	<u>Spotlight Presentations:</u> Cross-view Generalized Diffusion Model for Sparse-view CT Reconstruction <i>Authors:</i> Jixiang Chen, Yiqun Lin, Yi Qin, Hualiang Wang, Xiaomeng Li <i>Speaker:</i> Jixiang Chen, The Hong Kong University of Science and Technology, Hong Kong SAR Hallucination-Aware Multimodal Benchmark for Gastrointestinal Image Analysis with Large Vision-Language Models <i>Authors:</i> Bidur Khanal, Sandesh Pokhrel, Sanjay Bhandari, Ramesh Rana, Nikesh Shrestha, Ram B. Gurung, Cristian Linte, Angus Watson, Yash R. Shrestha, Binod Bhattarai <i>Speaker:</i> Binod Bhattarai, Nepal Applied Mathematics and Informatics Institute for Research, Nepal Veriserum: A dual-plane fluoroscopic dataset with knee implant phantoms for deep learning in medical imaging <i>Authors:</i> Jinhao Wang, Florian Vogl, Pascal Schütz, Saša Ćuković, William R. Taylor <i>Speaker:</i> Jinhao Wang, ETH Zürich, Switzerland Unisyn: A Generative Foundation Model for Universal Medical Image Synthesis across MRI, CT and PET <i>Authors:</i> Yulin Wang, Honglin Xiong, Kaicong Sun, Jiameng Liu, Xin Lin, Ziyi Chen, Yuanzhe He, Qian Wang, Dinggang Shen <i>Speaker:</i> Yulin Wang, ShanghaiTech University, China Inter-class separability loss for weakly supervised mutually exclusive multiclass segmentation of brain tumor lesions <i>Authors:</i> Vivek Dhamale, Vaanathi Sundaresan <i>Speaker:</i> Vivek Dhamale, Indian Institute of Science, Bangalore, India Facial Appearance Prediction with Conditional Multi-scale Autoregressive Modeling for Orthognathic Surgical Planning <i>Authors:</i> Jungwook Lee, Xuanang Xu, Daeseung Kim, Tianshu Kuang, Hannah H. Deng, Xinrui Song, Yasmine Soubra, Rohan Dharia, Michael A.K. Liebschner, Jaime Gateno, Pingkun Yan <i>Speaker:</i> Jungwook Lee, Rensselaer Polytechnic Institute, United States

<u>Oral Presentations:</u> Cerebrovascular Diseases Screening from Color Fundus Photography via Cross-View Fusion and Graph-Based Discrimination <i>Authors:</i> Congyu Tian, Shihao Zou, Xiangyun Liao, Cheng Chen, Chubin Ou, Jianping Lv, Shanshan Wang, Weixin Si <i>Speaker:</i> Shihao Zou, Shenzhen Institutes of Advanced Technology, China Multi-Modal Graph-Based Machine Learning for Predicting Surgical Outcome in Epilepsy Patients <i>Authors:</i> Artur Arturi Aharonyan, Syeda Abeera Amir, Nunthasiri Wittayanakorn, Marius George Linguraru, Chima Oluigbo, Syed Muhammad Anwar <i>Speaker:</i> Artur Arturi Aharonyan, Childrens National Hospital, United States SG2VID: Scene Graphs Enable Fine-Grained Control for Video Synthesis <i>Authors:</i> Ssharvien Kumar Sivakumar, Yannik Frisch, Ghazal Ghazaei, Anirban Mukhopadhyay <i>Speaker:</i> Ssharvien Kumar Sivakumar, TU Darmstadt, Germany GLCP: Global-to-Local Connectivity Preservation for Tubular Structure Segmentation <i>Authors:</i> Feixiang Zhou, Zhuangzhi Gao, He Zhao, Jianyang Xie, Yanda Meng, Yitian Zhao, Gregory Y.H. Lip, Yalin Zheng <i>Speaker:</i> Feixiang Zhou, University of Liverpool, United Kingdom pyOpenNFT: an Open-Source Python Framework for ML-based Real-time fMRI and EEG-fMRI Neurofeedback <i>Authors:</i> Ekaterina Antipushina, Nikita Davydov, Riccardo De Feo, Evgeny Prilepin, Artem Nikonorov, Yury Koush <i>Speaker:</i> Ekaterina Antipushina, Skolkovo Institute of Science and Technology, Russia GPU Accelerated Modeling of Cortical Radial and Tangential Connectivity Changes in Neurodegeneration <i>Authors:</i> Hongbo Zhang, Xinyu Nie, Jiaxin Yue, Yuan Li, John Ringman, Yonggang Shi <i>Speaker:</i> Hongbo Zhang, University of Southern California, United States	<u>Oral Presentations:</u> VesselGPT: Autoregressive Modeling of Vascular Geometry <i>Authors:</i> Paula Feldman, Martin Sinnona, Claudio Delrieux, Viviana Siless, Emmanuel Iarussi <i>Speaker:</i> Paula Feldman, Universidad Torcuato Di Tella, Argentina ClipGS: Clippable Gaussian Splatting for Interactive Cinematic Visualization of Volumetric Medical Data <i>Authors:</i> Chengkun Li, Yuqi Tong, Kai Chen, Zhenya Yang, Ruiyang Li, Shi Qiu, Jason Ying-Kuen Chan, Pheng-Ann Heng, Qi Dou <i>Speaker:</i> Chengkun Li, The Chinese University of Hong Kong, Hong Kong SAR InstructX2X: An Interpretable Local Editing Model for Counterfactual Medical Image Generation <i>Authors:</i> Hyungi Min, Taeseung You, Hangyeul Lee, Yeongjae Cho, Sungzoon Cho <i>Speaker:</i> Hyungi Min, Seoul National University, Republic of Korea UFO-3: Unsupervised Three-Compartment Learning for Fiber Orientation Distribution Function Estimation <i>Authors:</i> Xueqing Gao, Rizhong Lin, Jianhui Feng, Yonggang Shi, Yuchuan Qiao <i>Speaker:</i> Xueqing Gao, Tongji University, China 3D Acetabular Surface Reconstruction from 2D Pre-operative X-ray Images using SRVF Elastic Registration and Deformation Graph <i>Authors:</i> Shuai Zhang, Jinliang Wang, Xu Wang, Sujith Konan, Danail Stoyanov, Evangelos B. Mazomenos <i>Speaker:</i> Shuai Zhang, University College London, United Kingdom Speech Audio Generation from Dynamic MRI via a Knowledge Enhanced Conditional Variational Autoencoder <i>Authors:</i> Yaxuan Li, Han Jiang, Yifei Ma, Shihua Qin, Jonghye Woo, Fangxu Xing <i>Speaker:</i> Yaxuan Li, The University of Hong Kong, Hong Kong SAR
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Oral Session 13: Surgical Data Science Friday, September 26, 2025, 8:30 to 9:30 Main Hall - DCC1 Building - Room 201/202 Session Chairs: Vinkle Srivastav, IHU Strasbourg, University of Strasbourg, France Mobarak I. Hoque, University of Manchester, United Kingdom	Oral Session 14: Missing Data and Weak Supervision Friday, September 26, 2025, 8:30 to 9:30 Dual Track Hall - DCC1 Building - Room 112 Session Chairs: Cheng Chen, The University of Hong Kong, Hong Kong SAR Dmitry Dylov, The Skolkovo Institute of Science and Technology, Russia
Endo-FASt3r: Endoscopic Foundation Model Adaptation for Structure from Motion <i>Authors: Mona Sheikh Zeinoddin, Mobarak I. Hoque, Zafer Tandogdu, Greg L. Shaw, Matthew J. Clarkson, Evangelos B. Mazomenos, Danail Stoyanov</i> <i>Speaker: Mona Sheikh Zeinoddin, UCL Hawkes Institute, University College London, United Kingdom</i> RadGS-Reg: Registering Spine CT with Biplanar X-rays via Joint 3D Radiative Gaussians Reconstruction and 3D/3D Registration <i>Authors: Ao Shen, Xueming Fu, Junfeng Jiang, Qiang Zeng, Ye Tang, Zhengming Chen, Luming Nong, Feng Wang, S. Kevin Zhou</i> <i>Speaker: Ao Shen, Hohai University, China</i> Memory-Augmented SAM2 for Training-Free Surgical Video Segmentation <i>Authors: Ming Yin, Fu Wang, Xujiang Ye, Yanda Meng, Zeyu Fu</i> <i>Speaker: Ming Yin, University of Exeter, United Kingdom</i> Endo3R: Unified Online Reconstruction from Dynamic Monocular Endoscopic Video <i>Authors: Jiaxin Guo, Wenzhen Dong, Tianyu Huang, Hao Ding, Ziyi Wang, Haomin Kuang, Qi Dou, Yun-Hui Liu</i> <i>Speaker: Jiaxin Guo, The Chinese University of Hong Kong, Hong Kong SAR</i> Mamba Guided Boundary Prior Matters: A New Perspective for Generalized Polyp Segmentation <i>Authors: Tapas K. Dutta, Snehashis Majhi, Deepak Ranjan Nayak, Debesh Jha</i> <i>Speaker: Deepak Ranjan Nayak, Malaviya National Institute of Technology Jaipur, India</i>	ReCo-I2P: An Incomplete Supervised Lymph Node Segmentation Framework Based on Orthogonal Partial-instance Annotation <i>Authors: Litingyu Wang, Ping Ye, Wenjun Liao, Shichuan Zhang, Shaoting Zhang, Guotai Wang</i> <i>Speaker: Litingyu Wang, University of Electronic Science and Technology of China, China</i> Tree-based Semantic Losses: Application to Sparsely-supervised Large Multi-class Hyperspectral Segmentation <i>Authors: Junwen Wang, Oscar Maccormac, William Rochford, Aaron Kujawa, Jonathan Shapey, Tom Vercauteren</i> <i>Speaker: Junwen Wang, King's College London, United Kingdom</i> Towards Globally Predictable k-Space Interpolation: A White-box Transformer Approach <i>Authors: Chen Luo, Qiyu Jin, Taofeng Xie, Xuemei Wang, Huayu Wang, Congcong Liu, Liming Tang, Guoqing Chen, Zhuo-Xu Cui, Dong Liang</i> <i>Speaker: Chen Luo, Inner Mongolia University, China</i> Anatomical Graph-based Multilevel Distillation for Robust Alzheimer’s Disease Diagnosis with Missing Modalities <i>Authors: Fei Liu, Huabin Wang, Mohamed Hisham Jaward, Shiuan-Ni Liang, Huey Fang Ong, Jiayuan Cheng</i> <i>Speaker: Fei Liu, Monash University Malaysia, Malaysia</i> DC-Seg: Disentangled Contrastive Learning for Brain Tumor Segmentation with Missing Modalities <i>Authors: Haitao Li, Ziyu Li, Yiheng Mao, Zhengyao Ding, Zhengxing Huang</i> <i>Speaker: Haitao Li, Zhejiang University, China</i>

Poster Presentations

Poster Session 1: Augmented Reality and Video Generation / Language Models - Text and Images / Image Contextualization and Multimodal Fusion	
Wednesday, September 24, 2025, 15:30 – 17:00	
Poster Hall (DCC 2)	
A1 (Wed-PM) Paper Highlight	Intelligent Virtual Sonographer (IVS): Enhancing Physician-Robot-Patient Communication <i>Authors: Tianyu Song, Feng Li, Yuan Bi, Angelos Karlas, Amir Yousefi, Daniela Branzan, Zhongliang Jiang, Ulrich Eck, Nassir Navab</i> <i>Presenters: Tianyu Song and Feng Li, Technical University of Munich, Germany</i>
A6 (Wed-PM) Paper Highlight	HoloPointNet: A Deep Learning Framework for Efficient 3D Point Cloud Holography <i>Authors: Ankit Amrutkar, Ahmet Nazlioglu, Björn Kampa, Volkmar Schulz, Johannes Stegmaier, Markus Rothermel, Dorit Merhof</i> <i>Presenter: Ankit Amrutkar, RWTH Aachen University, Germany</i>
A11 (Wed-PM) Paper Highlight	HieraSurg: Hierarchy-Aware Diffusion Model for Surgical Video Generation <i>Authors: Diego Biagini, Nassir Navab, Azade Farshad</i> <i>Presenter: Diego Biagini, Technical University of Munich, Germany</i>
A16 (Wed-PM) Paper Highlight	Occlusion-free 4D Gaussians for Open Surgery Videos Using Multi-Camera Shadowless Lamps <i>Authors: Yuna Kato, Shohei Mori, Hideo Saito, Yoshifumi Takatsume, Hiroki Kajita, Mariko Isogawa</i> <i>Presenter: Mariko Isogawa, Keio University, Japan</i>
A21 (Wed-PM)	ReSurgSAM2: Referring Segment Anything in Surgical Video via Credible Long-term Tracking <i>Authors: Haofeng Liu, Mingqi Gao, Xuxiao Luo, Ziyue Wang, Guanyi Qin, Junde Wu, Yueming Jin</i> <i>Presenter: Haofeng Liu, National University of Singapore, Singapore</i>
A26 (Wed-PM)	RT-GAN: Recurrent Temporal GAN for Adding Lightweight Temporal Consistency to Frame-Based Domain Translation Approaches <i>Authors: Shawn Mathew, Saad Nadeem, Arie Kaufman</i> <i>Presenter: Saad Nadeem, Memorial Sloan Kettering Cancer Center, United States</i>
A31 (Wed-PM)	Topology-Constrained Learning for Efficient Laparoscopic Liver Landmark Detection <i>Authors: Ruize Cui, Jiaan Zhang, Jialun Pei, Kai Wang, Pheng-Ann Heng, Jing Qin</i> <i>Presenter: Ruize Cui, The Hong Kong Polytechnic University, Hong Kong SAR</i>
A36 (Wed-PM)	PR-ENDO: Physically Based Relightable Gaussian Splatting for Endoscopy <i>Authors: Joanna Kaleta, Weronika Smolak-Dyżewska, Dawid Malarz, Diego Dall’Alba, Przemysław Korzeniowski, Przemysław Spurek</i> <i>Presenters: Joanna Kaleta and Weronika Smolak-Dyżewska, Jagiellonian University, Poland</i>
A41 (Wed-PM)	Hierarchical Feature Learning for Medical Point Clouds via State Space Model <i>Authors: Guoqing Zhang, Jingyun Yang, Yang Li</i> <i>Presenter: Guoqing Zhang, Tsinghua Shenzhen International Graduate School, China</i>
A46 (Wed-PM)	Two-Stage Generative Model for Intracranial Aneurysm Meshes with Morphological Marker Conditioning <i>Authors: Wenhao Ding, Kangjun Ji, Simão Castro, Yihao Luo, Dylan Roi, Choon Hwai Yap</i> <i>Presenter: Wenhao Ding, Imperial College London, United Kingdom</i>
A51 (Wed-PM)	EG-Net: An Edge-Guided Network for Rigid Registration of Laparoscopic Low-Overlap Point Clouds <i>Authors: Wenbin Wu, Yifan Gao, Yixiu Wang, Jiayi Zhang, Yiming Zhao, Xin Gao</i> <i>Presenter: Wenbin Wu, University of Science and Technology of China, China</i>
A56 (Wed-PM) Paper Highlight	Noise-Controllable Complex-Valued Diffusion Model for k-Space Data of Hyperpolarized 129Xe Lung MRI Generation <i>Authors: Linxuan Han, Sa Xiao, Muhong Li, Jinghan Liu, Xin Zhou</i> <i>Presenter: Linxuan Han, Huazhong University of Science and Technology, China</i>
A61 (Wed-PM)	Reconstructing 3D Hand-Instrument Interaction from a Single 2D Image in Medical Scenes <i>Authors: Miao Xu, Xiangyu Zhu, Jinlin Wu, Ming Feng, Zelin Zang, Hongbin Liu, Zhen Lei</i> <i>Presenter: Miao Xu, Hong Kong Institute of Science, China</i>
A66 (Wed-PM)	LiteTracker: Leveraging Temporal Causality for Accurate Low-latency Tissue Tracking <i>Authors: Mert Asim Karaoglu, Wenbo Ji, Ahmed Abbas, Nassir Navab, Benjamin Busam, Alexander Ladikos</i> <i>Presenter: Mert Asim Karaoglu, ImFusion GmbH and Technical University of Munich, Germany</i>

A71 (Wed-PM)	SFPFR: Self-supervised Facial Paralysis Face Reconstruction Under Few Views <i>Authors: Yaru Qiu, Xinru Wang, Jianfang Zhang, Bo Liu, Peng Bai, Yuanyuan Sun</i> <i>Presenter: Jianfang Zhang, Qingdao University of Science and Technology, China</i>
A76 (Wed-PM)	Hypergraph Tversky-Aware Domain Incremental Learning for Brain Tumor Segmentation with Missing Modalities <i>Authors: Junze Wang, Lei Fan, Weipeng Jing, Donglin Di, Yang Song, Sidong Liu, Cong Cong</i> <i>Presenter: Junze Wang, Northeast Forestry University, China</i>
A81 (Wed-PM)	Real-Time SLAM-Based Correction and 3D Visualization for Fluorescence Lifetime Imaging <i>Authors: Murali Krishnamoorthy, Haoyin Zhou, Katherine Frazee, Rahul Pal, Jayender Jagadeesan, Anand T. N. Kumar</i> <i>Presenter: Anand Kumar, Mass Eye and Ear & Harvard Medical School, United States</i>
A86 (Wed-PM)	Structure-Aware Cross-Modal Prompt Tuning for Autonomous Bronchoscopic Navigation <i>Authors: Hao Fang, Zhuo Zeng, Jianwei Yang, Wenkang Fan, Xiongbiao Luo</i> <i>Presenter: Hao Fang, Xiamen University, China</i>
A91 (Wed-PM)	Sparsely Annotated Medical Image Segmentation via Cross-SAM of 3D and 2D Networks <i>Authors: Huaqiang Su, Zaiyi Liu, Lisha Yao, Sunyun Li, Hun Lin, Guoliang Chen, Xin Chen, Haijun Lei, Baiying Lei</i> <i>Presenter: Huaqiang Su, Shenzhen University, China</i>
A96 (Wed-PM)	EndoPlanar: Deformable Planar-based Gaussian Splatting for Surgical Scene Reconstruction <i>Authors: Thatphum Paonim, Chayapon Sasnarukkit, Natawut Nupairoj, Peerapon Vateekul</i> <i>Presenter: Thatphum Paonim, Chulalongkorn University, Thailand</i>
A101 (Wed-PM)	BridgeSplat: Bidirectionally Coupled CT and Non-Rigid Gaussian Splatting for Deformable Intraoperative Surgical Navigation <i>Authors: Maximilian Fehrentz, Alexander Winkler, Thomas Heiliger, Nazim Haouchine, Christian Heiliger, Nassir Navab</i> <i>Presenter: Maximilian Fehrentz, Technical University of Munich & Hospital of LMU Munich, Germany</i>
A106 (Wed-PM)	From Sight to Skill: A Surgeon-Centered Augmented Reality System for Ureteroscopy Training <i>Authors: Jumanh Atoum, Fangjie Li, Ayberk Acar, Nicholas L. Kavoussi, Jie Ying Wu</i> <i>Presenter: Jumanh Atoum, Vanderbilt University, United States</i>
A111 (Wed-PM)	NAVIUS: Navigated Augmented Reality Visualization for Ureteroscopic Surgery <i>Authors: Ayberk Acar, Jumanh Atoum, Peter S. Connor, Clifford Pierre, Carisa N. Lynch, Nicholas L. Kavoussi, Jie Ying Wu</i> <i>Presenter: Ayberk Acar, Vanderbilt University, United States</i>
A116 (Wed-PM)	Augmented Reality-based Guidance with Deformable Registration in Head and Neck Tumor Resection <i>Authors: Qingyun Yang, Fangjie Li, Jiayi Xu, Zixuan Liu, Sindhura Sridhar, Whitney Jin, Jennifer Du, Jon Heiselman, Michael Miga, Michael Topf, Jie Ying Wu</i> <i>Presenter: Qingyun Yang, Vanderbilt University, United States</i>
A121 (Wed-PM)	3D Dynamic Prediction of Missing Teeth in Diverse Patterns via Centroid-prompted Diffusion Model <i>Authors: Zongrui Ji, Na Li, Peng Xue, Yi Dong, Lei Ma</i> <i>Presenter: Lei Ma, Tongji University, China</i>
A126 (Wed-PM)	Towards Patient-Specific Deformable Registration in Laparoscopic Surgery <i>Authors: Alberto Neri, Nazim Haouchine, Veronica Penza, Leonardo S. Mattos</i> <i>Presenter: Alberto Neri, Istituto Italiano di Tecnologia, Italy</i>
A131 (Wed-PM)	F2PASeg: Feature Fusion for Pituitary Anatomy Segmentation in Endoscopic Surgery <i>Authors: Lumin Chen, Zhiying Wu, Tianye Lei, Xuexue Bai, Ming Feng, Yuxi Wang, Gaofeng Meng, Zhen Lei, Hongbin Liu</i> <i>Presenter: Zhiying Wu, Hong Kong Institute of Science & Innovation, Chinese Academy of Sciences, Hong Kong SAR</i>
A136 (Wed-PM)	CSAP-Assist: Instrument-Agent Dialogue Empowered Vision-Language Models for Collaborative Surgical Action Planning <i>Authors: Jie Zhang, Mengya Xu, Yiwei Wang, Qi Dou</i> <i>Presenter: Mengya Xu, The Chinese University of Hong Kong, Hong Kong SAR</i>
A141 (Wed-PM)	Unsupervised Cardiac Video Translation Via Motion Feature Guided Diffusion Model

Paper Highlight	Authors: Swakshar Deb, Nian Wu, Frederick H. Epstein, Miaomiao Zhang Presenter: Swakshar Deb, University of Virginia, United States
A146 (Wed-PM)	Temporal Differential Fields for 4D Motion Modeling via Image-to-Video Synthesis Authors: Xin You, Minghui Zhang, Hanxiao Zhang, Jie Yang, Nassir Navab Presenter: Xin You, Technical University of Munich, Germany & Shanghai Jiao Tong University, China
A151 (Wed-PM)	FEAT: Full-Dimensional Efficient Attention Transformer for Medical Video Generation Authors: Huihan Wang, Zhiwen Yang, Hui Zhang, Dan Zhao, Bingzheng Wei, Yan Xu Presenter: Zhiwen Yang, Beihang University, China
A156 (Wed-PM)	Fairness-Aware vCDR-Controlled Generation for Glaucoma Diagnosis Authors: Ziheng Wang, Shuran Yang, Wen Chen, Zhen Zhang, Mengyu Wang, Feixiang Zhou, Yu Tian, Meng Wang, Yitian Zhao, Yalin Zheng, Yanda Meng Presenter: Ziheng Wang, University of Exeter, United Kingdom
A161 (Wed-PM)	CA-SAM2: SAM2-based Context-Aware Network with Auto-Prompting for Nuclei Instance Segmentation Authors: Hanbin Huang, Hongliang He, Liying Xu, Xudong Zhu, Siwei Feng, Guohong Fu Presenter: Hanbin Huang, Soochow University, China
A166 (Wed-PM) Paper Highlight	Adaptation of Multi-modal Representation Models for Multi-task Surgical Computer Vision Authors: Soham Walimbe, Britty Baby, Vinkle Srivastav, Nicolas Padoy Presenter: Soham Walimbe, BITS Pilani Goa Campus, India
A171 (Wed-PM) Paper Highlight	Ophora: A Large-Scale Data-Driven Text-Guided Ophthalmic Surgical Video Generation Model Authors: Wei Li, Ming Hu, Guoan Wang, Lihao Liu, Kaijing Zhou, Junzhi Ning, Xin Guo, Zongyuan Ge, Lixu Gu, Junjun He Presenter: Wei Li, Shanghai Jiao Tong University, China
A176 (Wed-PM)	BaMCo: Balanced Multimodal Contrastive Learning for Knowledge-Driven Medical VQA Authors: Ziya Ata Yazıcı, Hazım Kemal Ekenel Presenter: Ziya Ata Yazıcı, Istanbul Technical University, Turkey
A181 (Wed-PM) Paper Highlight	Text-Guided Multi-Instance Learning for Scoliosis Screening via Gait Video Analysis Authors: Haiqing Li, Yuzhi Guo, Feng Jiang, Thao M. Dang, Hehuan Ma, Qifeng Zhou, Jean Gao, Junzhou Huang Presenter: Junzhou Huang, The University of Texas at Arlington, United States
A186 (Wed-PM)	RadAlign: Advancing Radiology Report Generation with Vision-Language Concept Alignment Authors: Difei Gu, Yunhe Gao, Yang Zhou, Mu Zhou, Dimitris Metaxas Presenter: Difei Gu, Rutgers University, United States
A191 (Wed-PM)	Dia-LLaMA: Towards Large Language Model-driven CT Report Generation Authors: Zhixuan Chen, Luyang Luo, Yequan Bie, Hao Chen Presenter: Zhixuan Chen, The Hong Kong University of Science and Technology, China
A196 (Wed-PM)	SPEC-CXR: Advancing Clinical Safety through Entity-Level Performance Evaluation of Chest X-ray Report Generation Authors: Jung Oh Lee, Junwoo Cho, Junha Kim, Laurent Dillard, Tom van Sonsbeek, Arnaud A. A. Setio, Hyeonsoo Lee, Donggeun Yoo, Taesoo Kim Presenter: Junwoo Cho, Lunit. Inc, Republic of Korea
A201 (Wed-PM)	Phrase-grounded Fact-checking for Automatically Generated Chest X-ray Reports Authors: Razi Mahmood, Diego Machado-Reyes, Joy Wu, Parisa Kaviani, Ken C.L. Wong, Niharika D'Souza, Mannudeep Kalra, Ge Wang, Pingkun Yan, Tanveer Syeda-Mahmood Presenter: Razi Mahmood, Rensselaer Polytechnic Institute, United States
A206 (Wed-PM)	Multi-Agent Collaboration for Integrating Echocardiography Expertise in Multi-Modal Large Language Models Authors: Yi Qin, Dinusara Sasindu Gamage Nanayakkara, Xiaomeng Li Presenter: Yi Qin, The Hong Kong University of Science and Technology, China
A211 (Wed-PM)	Thread the Needle: Genomics-guided Prompt-bridged Attention Model for Survival Prediction of Glioma based on MRI Images Authors: Yi Zhong, Xubin Zheng, Xiongri Shen, Jiaqi Wang, Leilei Zhao, Zhenxi Song, Zhiguo Zhang Presenter: Yi Zhong, Harbin Institute of Technology, China
A216 (Wed-PM) Paper Highlight	Towards Robust Medical Image Referring Segmentation with Incomplete Textual Prompts Authors: Qijie Wang, Xian Lin, Zengqiang Yan

Presenter: Xian Lin, Huazhong University of Science and Technology, China

A221 (Wed-PM)	OFF-CLIP: Improving Normal Detection Confidence in Radiology CLIP with Simple Off-Diagonal Term Auto-Adjustment Authors: Junhyun Park, Chanyu Moon, Donghwan Lee, Kyungsu Kim, Minho Hwang Presenter: Junhyun Park, Daegu Gyeongbuk Institute of Science and Technology, Republic of Korea
A226 (Wed-PM)	ViTexNet: Vision-Text Guided Dynamic Convolution Network for Medical Image Segmentation Authors: Rahul Bhardwaj, Utkarsh Yashwant Tambe, Debanga Raj Neog Presenter: Rahul Bhardwaj, Indian Institute of Technology Guwahati, India
A231 (Wed-PM)	More performant and scalable: Rethinking contrastive vision-language pre-training of radiology in the LLM era Authors: Yingtai Li, Haoran Lai, Xiaoqian Zhou, Shuai Ming, Wenxin Ma, Wei Wei, S. Kevin Zhou Presenter: Yingtai Li, University of Science and Technology of China, China
A236 (Wed-PM)	Longitudinal anatomical attention maps for recognizing diagnostic errors from radiologists' eye movements Authors: Anna Anikina, Diliara Ibragimova, Tamerlan Mustafaev, Claudia Mello-Thoms, Bulat Ibragimov Presenter: Anna Anikina, University of Copenhagen, Denmark
A241 (Wed-PM)	Diff-RRG: Longitudinal Disease-wise Patch Difference as Guidance for LLM-based Radiology Report Generation Authors: Hannah Yun, Junyeong Maeng, Eunsong Kang, Heung-Il Suk Presenter: Hannah Yun, Korea University, Republic of Korea
A246 (Wed-PM)	Vector-Quantization-Driven Active Learning for Efficient Multi-Modal Medical Segmentation with Cross-Modal Assistance Authors: Xiaofei Du, Haoran Wang, Manning Wang, Zhijian Song Presenter: Xiaofei Du, Fudan University, China
A251 (Wed-PM)	Multi-subject Orthogonal Sparse Matrix Decomposition Method for Extracting Individual Brain Functional Networks Authors: Xingyu He, Vince D. Calhoun, Theo G. M. van Erp, Yuhui Du Presenter: Xingyu He, Shanxi University, China
A256 (Wed-PM)	PathoPrompt: Cross-Granular Semantic Alignment for Medical Pathology Vision-Language Models Authors: Runlin Huang, Haohui Liang, Hongmin Cai, Weipeng Zhuo, Wentao Fan, Weifeng Su Presenter: Runlin Huang, Beijing Normal-Hong Kong Baptist University, China
Paper Highlight	
A261 (Wed-PM)	Automated Detection of Abnormalities in Zebrafish Development Authors: Sarath Sivaprasad, Hui-Po Wang, Anna-Lisa Jäckel, Jonas Baumann, Carole Baumann, Jennifer Herrmann, Mario Fritz Presenter: Sarath Sivaprasad, CISPA Helmholtz Center for Information Security, Germany
A266 (Wed-PM)	Reducing Variability of Multiple Instance Learning Methods for Digital Pathology Authors: Ali Mammadov, Loïc Le Folgoc, Guillaume Hocquet, Pietro Gori Presenter: Ali Mammadov, LTCl, Télécom Paris, Institut Polytechnique De Paris, France
A271 (Wed-PM)	Enhancing Radiology Report Interpretation through Modality-Specific RadGraph Fine-Tuning Authors: Haoyue Guan, Yuwei Dai, Shadi Afyouni, Alec Kain, Wen-Chi Hsu, Jiashu Cheng, Sophie Yao, Yuli Wang, Jing Wu, Rishitha Pulakhandam, Lin-mei Zhao, Chengzhang Zhu, Zhicheng Jiao, Craig Jones, Harrison Bai Presenter: Harrison Bai, Johns Hopkins University, United States
A276 (Wed-PM)	Trustworthy Few-Shot Transfer of Medical VLMs through Split Conformal Prediction Authors: Julio Silva-Rodríguez, Ismail Ben Ayed, Jose Dolz Presenter: Julio Silva-Rodríguez, ÉTS Montréal, Canada
A281 (Wed-PM)	Exposing and Mitigating Calibration Biases and Demographic Unfairness in MLLM Few-Shot In-Context Learning for Medical Image Classification Authors: Xing Shen, Justin Szeto, Mingyang Li, Hengguan Huang, Tal Arbel Presenter: Tal Arbel, McGill University, Canada
A286 (Wed-PM)	Teaching pathology foundation models to accurately predict gene expression with parameter efficient knowledge transfer Authors: Shi Pan, Jianan Chen, Maria Secrier Presenter: Shi Pan, University College London, United Kingdom

A291 (Wed-PM)	PMIL: Prompt enhanced Multimodal Integrative analysis of fMRI combining functional connectivity and temporal Latency <i>Authors: Hyounghsin Choi, Jonghun Kim, Jiwon Chung, Bo-yong Park, Hyunjin Park</i> <i>Presenter: Hyounghsin Choi, Sungkyunkwan University, Republic of Korea</i>
A296 (Wed-PM)	Resolving the Overlap of Macrovascular and Microvascular Flow Components in Digital Subtraction Angiography for Cerebral Reperfusion Assessment <i>Authors: Chengchuan Wu, Catherine Davey, Gagan Sharma, Felix Ng</i> <i>Presenter: Chengchuan Wu, The University of Melbourne, Australia</i>
A301 (Wed-PM)	FluoroSAM: A Language-promptable Foundation Model for Flexible X-ray Image Segmentation <i>Authors: Benjamin D. Killeen, Liam J. Wang, Blanca Iñigo, Han Zhang, Mehran Armand, Russell H. Taylor, Greg Osgood, Mathias Unberath</i> <i>Presenter: Benjamin Killeen, Johns Hopkins University, United States</i>
A306 (Wed-PM)	Pathology-aware Virtual H&E Staining of Section-free Thick Tissues with Semantic Contrastive Guidance <i>Authors: Jintaek Oh, Lulin Shi, Terence T. W. Wong</i> <i>Presenter: Jintaek Oh, The Hong Kong University of Science and Technology, Hong Kong SAR</i>
A311 (Wed-PM)	Unleashing the Power of LLMs for Medical Video Answer Localization <i>Authors: Junbin Xiao, Qingyun Li, Yusen Yang, Liang Qiu, Angela Yao</i> <i>Presenter: Junbin Xiao, National University of Singapore, Singapore</i>
A316 (Wed-PM)	Refining Cervical Cell Classification with Cytological Knowledge and Optimal Attribute Descriptor Matching <i>Authors: Manman Fei, Zhenrong Shen, Mengjun Liu, Zhiyun Song, Yusong Sun, Xu Han, Zelin Liu, Haotian Jiang, Lu Bai, Qian Wang, Lichi Zhang</i> <i>Presenter: Manman Fei, Shanghai Jiao Tong University, China</i>
A321 (Wed-PM) Paper Highlight	Med-BiasX: Robust Medical Visual Question Answering with Language Biases <i>Authors: Huanjia Zhu, Yishu Liu, Chengju Zhou, Guangming Lu, Bingzhi Chen</i> <i>Presenter: Yishu Liu, Harbin Institute of Technology, China</i>
A326 (Wed-PM) Paper Highlight	HyperPath: Knowledge-Guided Hyperbolic Semantic Hierarchy Modeling for WSI Analysis <i>Authors: Peixiang Huang, Yanyan Huang, Weiqin Zhao, Junjun He, Lequan Yu</i> <i>Presenter: Peixiang Huang, The University of Hong Kong, Hong Kong SAR</i>
A331 (Wed-PM)	XOCT: Enhancing OCT to OCTA Translation via Cross-Dimensional Supervised Multi-Scale Feature Learning <i>Authors: Pooya Khosravi, Kun Han, Anthony T. Wu, Arghavan Rezvani, Zexin Feng, Xiaohui Xie</i> <i>Presenter: Pooya Khosravi, University of California, Irvine, United States</i>
A336 (Wed-PM)	MedVLM-R1: Incentivizing Medical Reasoning Capability of Vision-Language Models (VLMs) via Reinforcement Learning <i>Authors: Jiazhen Pan, Che Liu, Junde Wu, Fenglin Liu, Jiayuan Zhu, Hongwei Bran Li, Chen Chen, Cheng Ouyang, Daniel Rueckert</i> <i>Presenter: Jiazhen Pan, Technical University of Munich, Germany</i>
A341 (Wed-PM)	DualPrompt-MedCap: A Dual-Prompt Enhanced Approach for Medical Image Captioning <i>Authors: Yining Zhao, Mukesh Prasad, Ali Braytee</i> <i>Presenter: Yining Zhao, The University of Technology Sydney, Australia</i>
A346 (Wed-PM)	Surface-based Multi-Axis Longitudinal Disentanglement Using Contrastive Learning for Alzheimer’s Disease <i>Authors: Jianwei Zhang, Yonggang Shi</i> <i>Presenter: Yonggang Shi, University of Southern California, United States</i>
A351 (Wed-PM)	BiasICL: In-Context Learning and Demographic Biases of Vision Language Models <i>Authors: Sonnet Xu, Joseph D. Janizek, Yixing Jiang, Roxana Daneshjou</i> <i>Presenter: Sonnet Xu, Stanford University, United States</i>
A356 (Wed-PM) Paper Highlight	Meta-analysis guided multi-task graph transformer network for diagnosis of neurological disease and cognitive deficits <i>Authors: Jing Xia, Yi Hao Chan, Jagath C. Rajapakse</i> <i>Presenter: Jing Xia, Nanyang Technological University, Singapore</i>
B1 (Wed-PM) Paper Highlight	Blood Pressure Assisted Cerebral Microbleed Segmentation via Meta-matching <i>Authors: Junmo Kwon, Jonghun Kim, Taehyeon Kim, Sang Won Seo, Hwan-ho Cho, Hyunjin Park</i> <i>Presenter: Junmo Kwon, Sungkyunkwan University, Republic of Korea</i>

B6 (Wed-PM) Paper Highlight	A Holistic Time-Aware Classification Model for Multimodal Longitudinal Patient Data <i>Authors: Tobias Susetzky, Huaqi Qiu, Rickmer Braren, Daniel Rueckert</i> <i>Presenter: Tobias Susetzky, Technical University of Munich, Germany</i>
B11 (Wed-PM) Paper Highlight	Multimodal Fusion Network with Distribution-based Tumor-Marker Imputation for Multi-Origin Metastatic Cervical Lymphadenopathy Classification <i>Authors: Rui Li, Chunyan Li, Xi Lin, Jinfeng Xu, Fang Li, Yao Lu</i> <i>Presenter: Rui Li, Sun Yat-sen University, China</i>
B16 (Wed-PM) Paper Highlight	tHPM-LDM: Integrating Individual Historical Record with Population Memory in Latent Diffusion-based Glaucoma Forecasting <i>Authors: Yuheng Fan, Jianyang Xie, Yimin Luo, Yanda Meng, Savita Madhusudhan, Gregory Y.H. Lip, Li Cheng, Yalin Zheng, He Zhao</i> <i>Presenter: Yuheng Fan, University of Liverpool, United Kingdom</i>
B21 (Wed-PM) Paper Highlight	Multi-expert collaboration and knowledge enhancement network for multimodal emotion recognition <i>Authors: Kun Wang, Junyong Zhao, Liying Zhang, Qi Zhu, Daoqiang Zhang</i> <i>Presenter: Kun Wang, Nanjing University of Aeronautics and Astronautics, China</i>
B26 (Wed-PM)	MrTrack: Register Mamba for Needle Tracking with Rapid Reciprocating Motion during Ultrasound-Guided Aspiration Biopsy <i>Authors: Yuelin Zhang, Qingpeng Ding, Long Lei, Yongxuan Feng, Raymond Shing-Yan Tang, Shing Shin Cheng</i> <i>Presenter: Yuelin Zhang, The Chinese University of Hong Kong, Hong Kong SAR</i>
B31 (Wed-PM)	Cycle Context Verification for In-Context Medical Image Segmentation <i>Authors: Shishuai Hu, Zehui Liao, Liangli Zhen, Huazhu Fu, Yong Xia</i> <i>Presenter: Shishuai Hu, Northwestern Polytechnical University, China</i>
B36 (Wed-PM)	Adaptive Spatial Transcriptomics Interpolation via Cross-modal Cross-slice Modeling <i>Authors: Ningfeng Que, Xiaofei Wang, Jingjing Chen, Yixuan Jiang, Chao Li</i> <i>Presenter: Ningfeng Que, University of Dundee, United Kingdom</i>
B41 (Wed-PM)	MNM: Multi-level Neuroimaging Meta-analysis with Hyperbolic Brain-Text Representations <i>Authors: Seunghun Baek, Jaejin Lee, Jaeyoon Sim, Minjae Jeong, Won Hwa Kim</i> <i>Presenter: Seunghun Baek, Pohang University of Science and Technology, Republic of Korea</i>
B46 (Wed-PM)	Dual Correlation-aware Mamba for Microvascular Obstruction Identification in Non-contrast Cine Cardiac Magnetic Resonance <i>Authors: Yige Yan, Jun Cheng, Xulei Yang, Shuang Leng, Ru San Tan, Liang Zhong, Jagath C. Rajapakse</i> <i>Presenter: Yige Yan, Nanyang Technological Univerisity, Singapore</i>
B51 (Wed-PM) Paper Highlight	Multi-Agent Reasoning for Cardiovascular Imaging Phenotype Analysis <i>Authors: Weitong Zhang, Mengyun Qiao, Chengqi Zang, Steven Niederer, Paul M. Matthews, Wenjia Bai, Bernhard Kainz</i> <i>Presenter: Weitong Zhang, Imperial College London, United Kingdom</i>
B56 (Wed-PM)	PRETI: Patient-Aware Retinal Foundation Model via Metadata-Guided Representation Learning <i>Authors: Yeonkyung Lee, Woojung Han, Youngjun Jun, Hyeonmin Kim, Jungkyung Cho, Seong Jae Hwang</i> <i>Presenter: Yeonkyung Lee, Yonsei University, Republic of Korea</i>
B61 (Wed-PM)	MicroMIL: Graph-Based Multiple Instance Learning for Context-Aware Diagnosis with Microscopic Images <i>Authors: JongWoo Kim, Bryan Wong, Huazhu Fu, Willmer Rafell Quiñones Robles, Young Sin Ko, Mun Yong Yi</i> <i>Presenter: Bryan Wong, Korea Advanced Institute of Science & Technology, Republic of Korea</i>
B66 (Wed-PM)	High-Precision Mixed Feature Fusion Network Using Hypergraph Computation for Cervical Abnormal Cell Detection <i>Authors: Jincheng Li, Danyang Dong, Menglin Zheng, Jingbo Zhang, Yueqin Hang, Lichi Zhang, Lili Zhao</i> <i>Presenter: Jincheng Li, Nantong University, China</i>
B71 (Wed-PM)	Co-Seg: Mutual Prompt-Guided Collaborative Learning for Tissue and Nuclei Segmentation <i>Authors: Qing Xu, Wenting Duan, Zhen Chen</i> <i>Presenter: Qing Xu, University of Nottingham, United Kingdom</i>

B76 (Wed-PM)	MG-UNet: A Memory-Guided UNet for Lesion Segmentation in Chest Images <i>Authors: Shuaipeng Ding, Mingyong Li, Chao Wang</i> <i>Presenter: Shuaipeng Ding, Chongqing Normal University, China</i>
B81 (Wed-PM)	Hybrid-View Attention Network for Clinically Significant Prostate Cancer Classification in Transrectal Ultrasound <i>Authors: Zetian Feng, Juan Fu, Xuebin Zou, Hongsheng Ye, Hong Wu, Jianhua Zhou, Yi Wang</i> <i>Presenter: Zetian Feng, Shenzhen University, China</i>
B86 (Wed-PM)	Lymph Node Metastasis Classification with Prototype-guided Multiple Instance Aggregation and Heterogeneous Feature Fusion <i>Authors: Haoshen Li, Tashan Ai, Yirui Wang, Zhanghexuan Ji, Qinji Yu, Le Lu, Bin Dong, Li Zhang, Xianghua Ye, Kuaile Zhao, Dakai Jin</i> <i>Presenter: Haoshen Li, Peking University, China</i>
B91 (Wed-PM)	Global and Local Contrastive Learning for Joint Representations from Cardiac MRI and ECG <i>Authors: Alexander Selivanov, Philip Müller, Özgün Turgut, Nil Stolt-Ansó, Daniel Rueckert</i> <i>Presenter: Alexander Selivanov, Technical University of Munich, Germany</i>
B96 (Wed-PM)	EdgeANet: A Transformer-based Edge Representation Learning Network for Canine X-ray Verification <i>Authors: In-Gyu Lee, Jun-Young Oh, Hyewon Choi, Tae-Eui Kam, Namsoon Lee, Sang-Hwan Hyun, Euijong Lee, Ji-Hoon Jeong</i> <i>Presenter: Jun-Young Oh, Chungbuk National University, Republic of Korea</i>
B101 (Wed-PM)	Learning Concept-Driven Logical Rules for Interpretable and Generalizable Medical Image Classification <i>Authors: Yibo Gao, Hangqi Zhou, Zheyao Gao, Bomin Wang, Shangqi Gao, Sihan Wang, Xiahai Zhuang</i> <i>Presenter: Yibo Gao, Fudan University, China</i>
B106 (Wed-PM)	A Curvature-Guided Diffeomorphic Mesh Deformation Framework for Lifespan Brain Cortical Surface Reconstruction <i>Authors: Lin Teng, Shen Zhao, Feng Shi, Dinggang Shen</i> <i>Presenter: Lin Teng, ShanghaiTech University, China</i>
B111 (Wed-PM)	RadiomicsRetrieval: A Customizable Framework for Medical Image Retrieval Using Radiomics Features <i>Authors: Inye Na, Nejung Rue, Jiwon Chung, Hyunjin Park</i> <i>Presenter: Inye Na, Sungkyunkwan University, Republic of Korea</i>
B116 (Wed-PM)	DGMIR: Dual-Guided Multimodal Medical Image Registration based on Multi-view Augmentation and On-site Modality Removal <i>Authors: Gao Le, Yucheng Shu, Lihong Qiao, Lijian Yang, Bin Xiao, Weisheng Li, Xinbo Gao</i> <i>Presenter: Gao Le, Chongqing University of Posts and Telecommunications, China</i>
B121 (Wed-PM)	XFMamba: Cross-Fusion Mamba for Multi-View Medical Image Classification <i>Authors: Xiaoyu Zheng, Xu Chen, Shaogang Gong, Xavier Griffin, Greg Slabaugh</i> <i>Presenter: Xiaoyu Zheng, Queen Mary University of London, United Kingdom</i>
B126 (Wed-PM)	Accurate and Efficient Fetal Birth Weight Estimation from 3D Ultrasound <i>Authors: Jian Wang, Qiongying Ni, Hongkui Yu, Ruixuan Yao, Jinqiao Ying, Bin Zhang, Xingyi Yang, Jin Peng, Jiongquan Chen, Junxuan Yu, Wenlong Shi, Chaoyu Chen, Zhongnuo Yan, Mingyuan Luo, Gaocheng Cai, Dong Ni, Jing Lu, Xin Yang</i> <i>Presenter: Qiongying Ni, Shenzhen University, China</i>
B131 (Wed-PM)	HAGE: Hierarchical Alignment Gene-Enhanced Pathology Representation Learning with Spatial Transcriptomics <i>Authors: Thao M. Dang, Haiqing Li, Yuzhi Guo, Hehuan Ma, Feng Jiang, Yuwei Miao, Qifeng Zhou, Jean Gao, Junzhou Huang</i> <i>Presenter: Thao M. Dang, The University of Texas at Arlington, United States</i>
B136 (Wed-PM)	TemSAM: Temporal-aware Segment Anything Model for Cerebrovascular Segmentation in Digital Subtraction Angiography Sequences <i>Authors: Liang Zhang, Xixi Jiang, Xiaohuan Ding, Zihang Huang, Tianyu Zhao, Xin Yang</i> <i>Presenter: Liang Zhang, Huazhong University of science and technology, China</i>
B141 (Wed-PM)	C²MAOT: Cross-modal Complementary Masked Autoencoder with Optimal Transport for Cancer Segmentation in PET-CT Images <i>Authors: Jiaju Huang, Shaobin Chen, Xinglong Liang, Xiao Yang, Zhuoneng Zhang, Yue Sun, Ying Wang, Tao Tan</i>

Presenter: Jiaju Huang, Macao Polytechnic University, China

- B146 (Wed-PM)

Omni-Fusion of Spatial and Spectral for Hyperspectral Image Segmentation

Authors: Qing Zhang, Guoquan Pei, Yan Wang

Presenter: Qing Zhang, East China Normal University, China
- B151 (Wed-PM)

TMSE: Tri-Modal Survival Estimation with Context-aware Tissue Prototype and Attention-Entropy Interaction

Authors: Ruofan Zhang, Mengjie Fang, Shengyuan Liu, Zipei Wang, Jie Tian, Di Dong

Presenter: Ruofan Zhang, CAS Key Laboratory of Molecular Imaging, Institute of Automation, Chinese Academy of Sciences, China
- B156 (Wed-PM)

MiCo: Multiple Instance Learning with Context-Aware Clustering for Whole Slide Image Analysis

Authors: Junjian Li, Jin Liu, Hulin Kuang, Hailin Yue, Mengshen He, Jianxin Wang

Presenter: Junjian Li, Central South University, China
- B161 (Wed-PM)

Top-Down Attention-based Multiple Instance Learning for Whole Slide Image Analysis

Authors: Daniel Reisenbüchler, Ruining Deng, Christian Matek, Friedrich Feuerhake, Dorit Merhof

Presenter: Daniel Reisenbüchler, University of Regensburg, Germany
- B166 (Wed-PM)

MambaMER: Adaptive EEG-Guided Multimodal Emotion Recognition with Mamba

Authors: Xiangle Ping, Wenhui Huang, Yuanjie Zheng

Presenter: Wenhui Huang, Shandong Normal University, China
- B171 (Wed-PM)

Location-Aware Parameter Fine-Tuning for Multimodal Image Segmentation

Authors: Sicong Gao, Maurice Pagnucco, Yang Song

Presenter: Yang Song, The University of New South Wales, Australia
- B176 (Wed-PM)

SAMASK-CLTR : A spatial-aware mask guided learning model for benign and malignant tumor classification in ABUS

Authors: Peirong Xu, Luoqian Zhu, Jingkun Chen, Xin Qian, Yue Sun, Lingyun Bao, Tao Tan

Presenter: Peirong Xu, Macao Polytechnic University, China
- B181 (Wed-PM)

A Composite Alignment-Aware Framework for Myocardial Lesion Segmentation in Multi-sequence CMR Images

Authors: Yifan Gao, Shaohao Rui, Haoyang Su, Jinyi Xiang, Lianming Wu, Xiaosong Wang

Presenter: Yifan Gao, University of Science and Technology of China, China
- B186 (Wed-PM)

Small Lesions-aware Bidirectional Multimodal Multiscale Fusion Network for Lung Disease Classification

Authors: Jianxun Yu, Ruiquan Ge, Zhipeng Wang, Cheng Yang, Chenyu Lin, Xianjun Fu, Jikui Liu, Ahmed Elazab, Changmiao Wang

Presenter: Jikui Liu, Shenzhen Polytechnic University, China
- B191 (Wed-PM)

Knowledge Bridges the Intent Gap: Contextual Fusion in Medical Fine-Grained Segmentation

Authors: Hengyuan Zhang, Peng Qiao, Wenyu Li, Yan Jia, Yong Dou

Presenter: Hengyuan Zhang, National University of Defense Technology, China
- B196 (Wed-PM)

CENet: Context Enhancement Network for Medical Image Segmentation

Authors: Afshin Bozorgpour, Sina Ghorbani Kolahi, Reza Azad, Ilker Hacihaliloglu, Dorit Merhof

Presenter: Afshin Bozorgpour, University of Regensburg, Germany
- B201 (Wed-PM)

Predicting Femoral Head Collapse Risk in Osteonecrosis Using Label Tokenization: A Multi-Modality Survival Analysis Approach

Authors: Ganping Li, Yoshito Otake, Yuito Kameda, Keisuke Uemura, Kazuma Takashima, Hirokazu Mae, Sotaro Kono, Hidetoshi Hamada, Seiji Okada, Nobuhiko Sugano, Yoshinobu Sato

Presenter: Yoshinobu Sato, Nara Medical University, Japan
- B206 (Wed-PM)

Anatomy-Aware Frequency-Attention Transformer Networks for Liver Couinaud CT/MR Segmentation

Authors: Wenkang Fan, Hao Fang, Rui Li, Yanduan Lin, Chao An, Xiongbiao Luo

Presenter: Wenkang Fan, Xiamen University, China
- B211 (Wed-PM)

Self-Supervised Multiview Xray Matching

Authors: Mohamad Dabboussi, Malo Huard, Yann Gousseau, Pietro Gori

Presenter: Mohamad Dabboussi, Milvue - Telecom Paris, France
- B216 (Wed-PM)

Time-Contrastive Pretraining for In-Context Image and Video Segmentation

Authors: Assefa Wahd, Jacob Jaremko, Abhilash Hareendranathan

Presenter: Assefa Wahd, University of Alberta, Canada

B221 (Wed-PM)	EEG-DINO: Learning EEG Foundation Models via Hierarchical Self-Distillation <i>Authors: Xujia Wang, Xuhui Liu, Xi Liu, Qian Si, Zhaoliang Xu, Yang Li, Xiantong Zhen</i> <i>Presenter: Xujia Wang, United Imaging Healthcare, Co., Ltd, China</i>
B226 (Wed-PM)	Diffusion-based Virtual Staining from Polarimetric Mueller Matrix Imaging <i>Authors: Xiaoyu Zheng, Jing Wen, Jiaxin Zhuang, Yao Du, Jing Cong, Limei Guo, Lin Luo, Chao He, Hao Chen</i> <i>Presenter: Xiaoyu Zheng, Hong Kong University of Science and Technology, Hong Kong SAR</i>
B231 (Wed-PM)	Meta-Learning Physics-Informed Neural Networks for Personalized Cardiac Modeling <i>Authors: Maryam Toloubidokhti, Ryan Missel, Shichang Lian, Linwei Wang</i> <i>Presenter: Linwei Wang, Rochester Institute of Technology, United States</i>
B236 (Wed-PM)	Hierarchical Self-Supervised Adversarial Training for Robust Vision Models in Histopathology <i>Authors: Hashmat Shadab Malik, Shahina Kunhimon, Muzammal Naseer, Fahad Shahbaz Khan, Salman Khan</i> <i>Presenter: Hashmat Shadab Malik, Mohamed Bin Zayed University of Artificial Intelligence, United Arab Emirates</i>
B241 (Wed-PM) Paper Highlight	CATVis: Context-Aware Thought Visualization <i>Authors: Tariq Mehmood, Hamza Ahmad, Muhammad Haroon Shakeel, Murtaza Taj</i> <i>Presenter: Hamza Ahmad, Forman Christian College University, Pakistan</i>
B246 (Wed-PM)	PDF-Net: Prototype-Aware Dynamic Fusion Network for Nasopharyngeal Carcinoma T-staging Classification with Epstein-Barr Virus DNA <i>Authors: Wantong Lu, Xu Han, Yibo Wei, Zanting Ye, Lijun Lu</i> <i>Presenter: Wantong Lu, Southern Medical University, China</i>
B251 (Wed-PM)	Attention-Guided Vector Quantized Variational Autoencoder for Brain Tumor Segmentation <i>Authors: Danish Ali, Ajmal Mian, Naveed Akhtar, Ghulam Mubashar Hassan</i> <i>Presenter: Danish Ali, The University of Western Australia, Australia</i>
B256 (Wed-PM)	Frequency-enhanced Multi-granularity Context Network for Efficient Vertebrae Segmentation <i>Authors: Jian Shi, Tianqi You, Pingping Zhang, Hongli Zhang, Rui Xu, Haojie Li</i> <i>Presenter: Jian Shi, Dalian University of Technology, China</i>
B261 (Wed-PM)	IKAN: Interactive KAN with Modulation Fusion for Medical Image Segmentation <i>Authors: Sihan Liu, Tonghua Wan, Yuxin Cai, Shengcai Chen, Bo Hu, Yan Wan, Wu Qiu</i> <i>Presenter: Sihan Liu, Huazhong University of Science and Technology, China</i>
B266 (Wed-PM)	Wavelet-driven Decoupling and Physics-informed Mapping Network for Accelerated Multi-parametric MR Imaging <i>Authors: Ruilong Dan, Kaicong Sun, Yichen Zhou, Minqiang Jia, Yuxuan Liu, Han Zhang, Xiaopeng Zong, Dinggang Shen</i> <i>Presenter: Ruilong Dan, ShanghaiTech University, China</i>
B271 (Wed-PM)	Pre-to-Post Operative MRI Generation with Retrieval-based Visual In-Context Learning <i>Authors: Bogyeong Kang, Sang-Jun Park, Minjoo Lim, Myeongkyun Kang, Keun-Soo Heo, Ji-Hye Oh, Hyun Jung Lee, Tae-Eui Kam</i> <i>Presenter: Bogyeong Kang, Korea University, Republic of Korea</i>
B276 (Wed-PM) Paper Highlight	Physics-Informed Neural ODEs for Temporal Dynamics Modeling in Cardiac T1 Mapping <i>Authors: Nuno Capitão, Yi Zhang, Yidong Zhao, Qian Tao</i> <i>Presenter: Qian Tao, Delft University of Technology, The Netherlands</i>
B281 (Wed-PM)	CBrain: Cross-Modal Learning for Brain Vigilance Detection in Resting-State fMRI <i>Authors: Chang Li, Yamin Li, Haatef Pourmotabbed, Shengchao Zhang, Jorge A. Salas, Sarah E. Goodale, Roza G. Bayrak, Catie Chang</i> <i>Presenter: Sarah E. Goodale, Vanderbilt University, United States</i>
B286 (Wed-PM)	RegScore: Scoring Systems for Regression Tasks <i>Authors: Michal K. Grzeszczyk, Tomasz Szczepański, Pawel Renc, Siyeop Yoon, Jerome Charton, Tomasz Trzciński, Arkadiusz Sitek</i> <i>Presenter: Michal K. Grzeszczyk, Sano Centre for Computational Medicine, Poland</i>
B291 (Wed-PM)	Surface Vision Mamba: Leveraging Bidirectional State Space Model for Efficient Spherical Manifold Representation <i>Authors: Rongzhao He, Weihao Zheng, Leilei Zhao, Ying Wang, Dalin Zhu, Dan Wu, Bin Hu</i> <i>Presenter: Rongzhao He, Lanzhou University, China</i>

B296 (Wed-PM)	You Can Detect It: Fetal Biometric Estimation Using Ellipse Detection <i>Authors: Hongyuan Zhang, Haoyu Xie, Tingting Ye, Songxiong Wu</i> <i>Presenter: Hongyuan Zhang, Hong Kong Institute of Science & Innovation, Hong Kong SAR</i>
B301 (Wed-PM)	Non-Invasive TB Detection using Acoustic and Semantic Features from Cough Sounds <i>Authors: Yasmeena Akhter, Rishabh Ranjan, Bikash Dutta, Mayank Vatsa, Richa Singh</i> <i>Presenter: Yasmeena Akhter, Indian Institute of Technology Jodhpur, India</i>
B306 (Wed-PM)	MSGFlowNet: Learning Effective Connectivity Network based on Sparse Generative Flow Network from fMRI and EEG Data <i>Authors: Zhihao Su, Jihao Zhai, Junzhong Ji, Jinduo Liu</i> <i>Presenter: Jinduo Liu, Beijing University of Technology, China</i>
B311 (Wed-PM)	RIFNet: Bridging Modalities for Accurate and Detailed Ocular Disease Analysis <i>Authors: Yuqing Li, Qingshan Hou, Peng Cao, Jianguo Ju, Tianqi Wang, Meng Wang, Ke Zou, Yih Chung Tham, Huazhu Fu, Osmar R. Zaiane</i> <i>Presenter: Osmar Zaiane, Northeastern University, China</i>
B316 (Wed-PM)	DCKAN: A Dual-Coordinate KAN Framework for Fibrous Cap Segmentation on Carotid OCT <i>Authors: Tonghua Wan, Sihan Liu, Yuxin Cai, Shengcai Chen, Yan Wan, Bo Hu, Wu Qiu</i> <i>Presenter: Wu Qiu, Huazhong University of Science and Technology, China</i>
B321 (Wed-PM)	A Multimodal Contrastive Learning for Detecting Aortic Dissection on 3D Non-Contrast CT with Anatomy Simplification <i>Authors: Duoer Zhang, Wenbo Xiao, Chen Jiang, Yuxuan Qiu, Zhan Feng, Hong Wang, Yefeng Zheng, Wentao Zhu</i> <i>Presenter: Duoer Zhang, Zhejiang Lab, China</i>
B326 (Wed-PM)	MedGround-R1: Advancing Medical Image Grounding via Spatial-Semantic Rewarded Group Relative Policy Optimization <i>Authors: Huihui Xu, Yuanpeng Nie, Hualiang Wang, Ying Chen, Wei Li, Junzhi Ning, Lihao Liu, Hongqiu Wang, Lei Zhu, Jiyao Liu, Xiaomeng Li, Junjun He</i> <i>Presenter: Huihui Xu, Shanghai AI Lab, China</i>
B331 (Wed-PM)	Adaptive Embedding for Long-Range High-Order Dependencies via Time-Varying Transformer on fMRI <i>Authors: Rundong Xue, Xiangmin Han, Hao Hu, Zeyu Zhang, Shaoyi Du, Yue Gao</i> <i>Presenter: Rundong Xue, Xi'an Jiaotong University, China</i>
B336 (Wed-PM)	MM-DINOv2: Adapting Foundation Models for Multi-Modal Medical Image Analysis <i>Authors: Daniel Scholz, Ayhan Can Erdur, Viktoria Ehm, Anke Meyer-Baese, Jan C. Peeken, Daniel Rueckert, Benedikt Wiestler</i> <i>Presenter: Daniel Scholz, Technical University of Munich, Germany</i>
C1 (Wed-PM)	WSI-Agents: A Collaborative Multi-Agent System for Multi-Modal Whole Slide Image Analysis <i>Authors: Xinheng Lyu, Yuci Liang, Wenting Chen, Meidan Ding, Jiaqi Yang, Guolin Huang, Daokun Zhang, Xiangjian He, Linlin Shen</i> <i>Presenter: Xinheng Lyu, University of Nottingham Ningbo China, China</i>
C6 (Wed-PM)	Location-Guided Automated Lesion Captioning in Whole-body PET/CT Images <i>Authors: Mingyang Yu, Yaozong Gao, Yiran Shu, Yanbo Chen, Jingyu Liu, Caiwen Jiang, Kaicong Sun, Zhiming Cui, Weifang Zhang, Yiqiang Zhan, Xiang Sean Zhou, Shaonan Zhong, Xinlu Wang, Meixin Zhao, Dinggang Shen</i> <i>Presenter: Mingyang Yu, ShanghaiTech University, China</i>
C11 (Wed-PM)	LesionDiffusion: Towards Text-controlled General Lesion Synthesis <i>Authors: Wenhui Lei, Hengrui Tian, Linrui Dai, Hanyu Chen, Xiaofan Zhang</i> <i>Presenter: Linrui Dai, National Institute of Informatics, Japan</i>
C16 (Wed-PM)	DentEval: Fine-tuning-Free Expert-Aligned Assessment in Dental Education via LLM Agents <i>Authors: Xinyu Deng, Vesna Miletic, Elvis Trinh, Jinlong Gao, Chang Xu, Daochang Liu</i> <i>Presenter: Xinyu Deng, The University of Sydney, Australia</i>
C21 (Wed-PM)	Explain Any Pathological Concept: Discovering Hierarchical Explanations for Pathology Foundation Models <i>Authors: Shuting Xu, Junlin Hou, Hao Chen</i> <i>Presenter: Shuting Xu, Nankai University, China</i>
C26 (Wed-PM)	Knowledge Tree Driven Contextualized Instruction Tuning of Foundation Models for Epilepsy Drug Recommendation

Authors: Duy Khoa Pham, Deval Mehta, Yiwen Jiang, Daniel Thom, Richard Shek-kwan Chang, Mohammad Nazem-Zadeh, Emma Foster, Timothy Fazio, Sarah Holper, Karin Verspoor, Jiahe Liu, Duong Nhu, Sarah Barnard, Terence O’Brien, Zhibin Chen, Jacqueline French, Patrick Kwan, Zongyuan Ge
Presenter: Duy Khoa Pham, Monash University, Australia

C31 (Wed-PM)	Restyled, Tuning, and Alignment: Taming VLMs for Federated Non-IID Medical Image Analysis Authors: Shengchao Chen, Ting Shu Presenter: Ting Shu, Shenzhen University, China
C36 (Wed-PM) Paper Highlight	Learning Segmentation from Radiology Reports Authors: Pedro R. A. S. Bassi, Wenxuan Li, Jieneng Chen, Zheren Zhu, Tianyu Lin, Sergio Decherchi, Andrea Cavalli, Kang Wang, Yang Yang, Alan L. Yuille, Zongwei Zhou Presenter: Pedro R. A. S. Bassi, University of Bologna, Italy and Johns Hopkins University, United States
C41 (Wed-PM)	Vision-Amplified Semantic Entropy for Hallucination Detection in Medical Visual Question Answering Authors: Zehui Liao, Shishuai Hu, Ke Zou, Huazhu Fu, Liangli Zhen, Yong Xia Presenter: Zehui Liao, Northwestern Polytechnical University, China
C46 (Wed-PM) Paper Highlight	Cervical-RG: Automated Cervical Cancer Report Generation from 3D Multi-sequence MRI via CoT-guided Hierarchical Experts Authors: Hanwen Zhang, Yu Long, Yimeng Fan, Yu Wang, Zhaoyi Zhan, Sen Wang, Yuncheng Jiang, Rui Sun, Zheng Xing, Zhen Li, Xiaohui Duan, Weibing Zhao Presenter: Hanwen Zhang, Beijing Institute of Technology, China
C51 (Wed-PM) Paper Highlight	LEAVS: An LLM-based Labeler for Abdominal CT Supervision Authors: Ricardo Bigolin Lanfredi, Yan Zhuang, Mark Finkelstein, Praveen Thoppey Srinivasan Balamuralikrishna, Luke Krembs, Brandon Khoury, Arthi Reddy, Pritam Mukherjee, Neil M. Rofsky, Ronald M. Summers Presenter: Ricardo Bigolin Lanfredi, National Institutes of Health, United States
C56 (Wed-PM)	MCA-RG: Enhancing LLMs with Medical Concept Alignment for Radiology Report Generation Authors: Qilong Xing, Zikai Song, Youjia Zhang, Na Feng, Junqing Yu, Wei Yang Presenter: Qilong Xing, Huazhong University of Science and Technology, China
C61 (Wed-PM)	μ2 Tokenizer: Differentiable Multi-Scale Multi-Modal Tokenizer for Radiology Report Generation Authors: Siyou Li, Pengyao Qin, Huanan Wu, Dong Nie, Arun J. Thirunavukarasu, Juntao Yu, Le Zhang Presenter: Siyou Li, Queen Mary University of London, United Kingdom
C66 (Wed-PM)	Text-driven Multiplanar Visual Interaction for Semi-supervised Medical Image Segmentation Authors: Kaiwen Huang, Yi Zhou, Huazhu Fu, Yizhe Zhang, Chen Gong, Tao Zhou Presenter: Kaiwen Huang, Nanjing University of Science and Technology, China
C71 (Wed-PM)	CARE-VL: A Domain-Specialized Vision-Language Model for Early ASD Screening Authors: Cheol-Hwan Yoo, Jang-Hee Yoo, Jaeyoon Jang Presenter: Cheol-Hwan Yoo, ETRI, Republic of Korea
C76 (Wed-PM)	Your other Left! Vision-Language Models Fail to Identify Relative Positions in Medical Images Authors: Daniel Wolf, Heiko Hillenhausen, Billurvan Taskin, Alex Bäuerle, Meinrad Beer, Michael Götz, Timo Ropinski Presenter: Daniel Wolf, Ulm University, Germany
C81 (Wed-PM)	SimCrop: Radiograph Representation Learning with Similarity-driven Cross-granularity Pre-training Authors: Rongsheng Wang, Fenghe Tang, Qingsong Yao, Rui Yan, Xu Zhang, Zhen Huang, Haoran Lai, Zhiyang He, Xiaodong Tao, Zihang Jiang, S. Kevin Zhou Presenter: Rongsheng Wang, University of Science and Technology of China, China
C86 (Wed-PM)	Configurable Platform for Biomedical Literature Mining via Multimodal-Driven Extraction Authors: Xinpan Yuan, Bozhao Li, Guihu Zhao, Yueming Wang, Liujie Hua, Junhua Kuang, Jianguo Chen, Shaomin Xie, Gan Li Presenter: Bozhao Li, Hunan University of Technology, China
C91 (Wed-PM)	RetFiner: A Vision-Language Refinement Scheme for Retinal Foundation Models Authors: Ronald Fecso, José Morano, Ursula Schmidt-Erfurth, Hrvoje Bogunović Presenter: Ronald Fecso, Medical University of Vienna, Austria

C96 (Wed-PM)	Unleashing Vision Foundation Models for Coronary Artery Segmentation: Parallel ViT-CNN Encoding and Variational Fusion <i>Authors: Caixia Dong, Duwei Dai, Xinyi Han, Fan Liu, Xu Yang, Zongfang Li, Songhua Xu</i> <i>Presenter: Caixia Dong, The Second Affiliated Hospital of Xi'an Jiaotong University, China</i>
C101 (Wed-PM) Paper Highlight	Historical Report Guided Bi-modal Concurrent Learning for Pathology Report Generation <i>Authors: Ling Zhang, Boxiang Yun, Qingli Li, Yan Wang</i> <i>Presenter: Ling Zhang, East China Normal University, China</i>
C106 (Wed-PM)	Medical Large Vision Language Models with Multi-Image Visual Ability <i>Authors: Xikai Yang, Juzheng Miao, Yuchen Yuan, Jiaze Wang, Qi Dou, Jinpeng Li, Pheng-Ann Heng</i> <i>Presenter: Xikai Yang, The Chinese University of Hong Kong, Hong Kong SAR</i>
C111 (Wed-PM)	Delving into Out-of-Distribution Detection with Medical Vision-Language Models <i>Authors: Lie Ju, Sijin Zhou, Yukun Zhou, Huimin Lu, Zhuoting Zhu, Pearse A. Keane, Zongyuan Ge</i> <i>Presenter: Lie Ju, Monash University, Australia</i>
C116 (Wed-PM)	MVP-LLMs: Optimizing Intervention Timing and Subsequent Decision Support for Mechanical Ventilation Parameter Control Using Large Language Models <i>Authors: Teqi Hao, Xiaoyu Tan, Bin Li, Xuemin Wang, Chao Qu, Yinghui Xu, Xihe Qiu</i> <i>Presenter: Teqi Hao, Shanghai University of Engineering Science, China</i>
C121 (Wed-PM)	Continual Retinal Vision-Language Pre-training upon Incremental Imaging Modalities <i>Authors: Yang Yao, Ruiqi Wu, Yi Zhou, Tao Zhou</i> <i>Presenter: Yang Yao, Southeast University, China</i>
C126 (Wed-PM)	MAKE: Multi-Aspect Knowledge-Enhanced Vision-Language Pretraining for Zero-shot Dermatological Assessment <i>Authors: Siyuan Yan, Xieji Li, Ming Hu, Yiwen Jiang, Zhen Yu, Zongyuan Ge</i> <i>Presenter: Siyuan Yan, Monash University, Australia</i>
C131 (Wed-PM)	Hierarchical Vision-Language Learning for Medical Out-of-Distribution Detection <i>Authors: Runhe Lai, Xinhua Lu, Kanghao Chen, Qichao Chen, Wei-Shi Zheng, Ruixuan Wang</i> <i>Presenter: Runhe Lai, Sun Yat-sen University, China</i>
C136 (Wed-PM)	Fair-MoE: Medical Fairness-Oriented Mixture of Experts in Vision-Language Models <i>Authors: Peiran Wang, Linjie Tong, Jian Wu, Jiaxiang Liu, Zuozhu Liu</i> <i>Presenter: Linjie Tong, University of Illinois Urbana-Champaign, United States</i>
C141 (Wed-PM)	HiLa: Hierarchical Vision-Language Collaboration for Cancer Survival Prediction <i>Authors: Jiaqi Cui, Lu Wen, Yuchen Fei, Bo Liu, Luping Zhou, Dinggang Shen, Yan Wang</i> <i>Presenter: Jiaqi Cui, Sichuan University, China</i>
C146 (Wed-PM)	RadIR: A Scalable Framework for Multi-Grained Medical Image Retrieval via Radiology Report Mining <i>Authors: Tengfei Zhang, Ziheng Zhao, Chaoyi Wu, Xiao Zhou, Ya Zhang, Yanfeng Wang, Weidi Xie</i> <i>Presenter: Ziheng Zhao, Shanghai Jiao Tong University, China</i>
C151 (Wed-PM)	V2T-CoT: From Vision to Text Chain-of-Thought for Medical Reasoning and Diagnosis <i>Authors: Yuan Wang, Jiaxiang Liu, Shujian Gao, Bin Feng, Zhihang Tang, Xiaotang Gai, Jian Wu, Zuozhu Liu</i> <i>Presenter: Yuan Wang, Zhejiang University, China</i>
C156 (Wed-PM)	PromptReg: Universal Medical Image Registration via Task Prompt Learning and Domain Knowledge Transfer <i>Authors: Housheng Xie, Xiaoru Gao, Guoyan Zheng</i> <i>Presenter: Housheng Xie, Shanghai Jiao Tong University, China</i>
C161 (Wed-PM) Paper Highlight	RAPTOR: Generative AI for Parsing Colorectal Cancer Referrals to Streamline Faster Diagnostic Standard Pathways <i>Authors: Sofiat Abioye, Shazad Ashraf, Junaid Qadir, Adam Byfield, Anusha Jose, William Poulett, Ben Wallace, Adil Butt, Colm Forde, Marcus Mottershead, Simon Fallis, Andrew Beggs, Aneel Bhangu, Lukman Akanbi, Muhammad Bilal</i> <i>Presenter: Sofiat Abioye, Birmingham City University, United Kingdom</i>
C166 (Wed-PM) Paper Highlight	RRG-DPO: Direct Preference Optimization for Clinically Accurate Radiology Report Generation <i>Authors: Hong Liu, Dong Wei, Zhe Xu, Xian Wu, Yefeng Zheng, Liansheng Wang</i> <i>Presenters: Hong Liu, Xiamen University, China and Zhe Liu, The Chinese University of Hong Kong, Hong Kong SAR</i>
C171 (Wed-PM)	Interactive Segmentation and Report Generation for CT Images

Authors: Yannian Gu, Wenhui Lei, Hanyu Chen, Shooting Zhang, Xiaofan Zhang
Presenter: Xiaofan Zhang, Shanghai Jiao Tong University, China

C176 (Wed-PM)	PedCLIP: A Vision-Language model for Pediatric X-rays with Mixture of Body part Experts Authors: Ta Duc Huy, Abin Shoby, Sen Tran, Yutong Xie, Qi Chen, Phi Le Nguyen, Akshay Gole, Lingqiao Liu, Antonios Perperidis, Mark Friswell, Rebecca Linke, Andrea Glynn, Minh-Son To, Anton van den Hengel, Johan Verjans, Zhibin Liao, Minh Hieu Phan Presenter: Ta Duc Huy, The University of Adelaide, Australia
C181 (Wed-PM)	MAARTA:Multi-Agentic Adaptive Radiology Teaching Assistant Authors: Akash Awasthi, Brandon V. Chung, Anh M. Vu, Ngan Le, Rishi Agrawal, Zhigang Deng, Carol Wu, Hien V. Nguyen Presenter: Akash Awasthi, University of Houston, United States
C186 (Wed-PM)	Adapting Vision Foundation Models for Real-time Ultrasound Image Segmentation Authors: Xiaoran Zhang, Eric Z. Chen, Lin Zhao, Xiao Chen, Yikang Liu, Boris Maihe, James S. Duncan, Terrence Chen, Shanhui Sun Presenter: Shanhui Sun, United Imaging Intelligence, United States
C191 (Wed-PM)	OpenPath: Open-Set Active Learning for Pathology Image Classification via Pre-trained Vision-Language Models Authors: Lanfeng Zhong, Xin Liao, Shichuan Zhang, Shooting Zhang, Guotai Wang Presenter: Lanfeng Zhong, University of Electronic Science and Technology of China, China
C196 (Wed-PM)	ITAdaptor: Image-Tag Adapter Framework with Knowledge Enhancement for Radiology Report Generation Authors: Shuaipeng Ding, Mengnan Fan, Mingyong Li, Chao Wang Presenter: Mengnan Fan, Chongqing Normal University, China
C201 (Wed-PM)	TRRG: Towards Truthful Radiology Report Generation With Cross-modal Disease Clue Enhanced Large Language Models Authors: Yuhao Wang, Yue Sun, Tao Tan, Chao Hao, Yawen Cui, Xinqi Su, Weichen Xie, Linlin Shen, Zitong Yu Presenter: Yuhao Wang, University of Science and Technology of China, China
C206 (Wed-PM)	Contrastive Knowledge-Guided Large Language Models for Medical Report Generation Authors: Yuyang Sha, Hongxin Pan, Weiyu Meng, Kefeng Li Presenter: Yuyang Sha, Macao Polytechnic University, Macao SAR
C211 (Wed-PM)	Confidence Calibration for Multimodal LLMs: An Empirical Study through Medical VQA Authors: Yuetian Du, Yucheng Wang, Ming Kong, Tian Liang, Qiang Long, Bingdi Chen, Qiang Zhu Presenter: Yuetian Du, Zhejiang University, China
C216 (Wed-PM)	Exploring Text-enhanced Mixture-of-Experts for Semi-supervised Medical Image Segmentation with Composite Data Authors: Qingjie Zeng, Huan Luo, Xinke Ma, Zilin Lu, Yang Hu, Yong Xia Presenter: Qingjie Zeng, Northwestern Polytechnical University, China
C221 (Wed-PM)	Robust Sleep Stage Prediction from Electroencephalogram with Label Noise Using Multimodal Large Language Models Authors: Xihe Qiu, Chen Zhan, Gengchen Ma, Jingjing Huang, Xiaoyu Tan Presenter: Chen Zhan, Shanghai University of Engineering Science, China
C226 (Wed-PM)	Revisiting Automatic Data Curation for Vision Foundation Models in Digital Pathology Authors: Boqi Chen, Cédric Vincent-Cuaz, Lydia A. Schoenpflug, Manuel Madeira, Lisa Fournier, Vaishnavi Subramanian, Sonali Andani, Samuel Ruiperez-Campillo, Julia E. Vogt, Raphaëlle Luisier, Dorina Thanou, Viktor H. Koelzer, Pascal Frossard, Gabriele Campanella, Gunnar Rätsch Presenter: Boqi Chen, ETH Zurich, Switzerland
C231 (Wed-PM)	ViTAL-CT: Vision Transformers for High-Risk Plaque Classification in Coronary CTA Authors: Anjie Le, Jin Zheng, Tan Gong, Quanlin Sun, Jonathan Weir-McCall, Declan P. O'Regan, Michelle C. Williams, David E. Newby, James H. F. Rudd, Yuan Huang Presenter: Jin Zheng, Imperial College London, United Kingdom
C236 (Wed-PM)	AdFair-CLIP: Adversarial Fair Contrastive Language-Image Pre-training for Chest X-rays Authors: Chenlang Yi, Zizhan Xiong, Qi Qi, Xiyuan Wei, Girish Bathla, Ching-Long Lin, Bobak J. Mortazavi, Tianbao Yang Presenter: Tianbao Yang, Associate Professor, United States
C241 (Wed-PM)	CLIP-DSA: Textual Knowledge-Guided Cerebrovascular Diseases Recognition in Multi-View Digital Subtraction Angiography

Authors: Qihang Xie, Dan Zhang, Mengting Liu, Jianwei Zhang, Ruisheng Su, Caifeng Shan, Jiong Zhang
Presenter: Jiong Zhang, Ningbo Institute of Materials Technology & Engineering, Chinese Academy of Sciences, China

C246 (Wed-PM)	FunBench: Benchmarking Fundus Reading Skills of MLLMs Authors: Qijie Wei, Kaiheng Qian, Xirong Li Presenter: Qijie Wei, Renmin University of China, China
C251 (Wed-PM)	TextBraTS: Text-Guided Volumetric Brain Tumor Segmentation with Innovative Dataset Development and Fusion Module Exploration Authors: Xiaoyu Shi, Rahul Kumar Jain, Yinhao Li, Ruibo Hou, Jingliang Cheng, Jie Bai, Guohua Zhao, Lanfen Lin, Rui Xu, Yen-wei Chen Presenter: Xiaoyu Shi, Ritsumeikan University, Japan
C256 (Wed-PM)	CoCa-CXR: Contrastive Captioners Learn Strong Temporal Structures for Chest X-Ray Vision-Language Understanding Authors: Yixiong Chen, Shawn Xu, Andrew Sellergren, Yossi Matias, Avinatan Hassidim, Shravya Shetty, Daniel Golden, Alan L. Yuille, Lin Yang Presenter: Yixiong Chen, Johns Hopkins University, United States
C261 (Wed-PM)	UniMRG: Refining Medical Semantic Understanding Across Modalities via LLM-Orchestrated Synergistic Evolution Authors: Hongyan Xu, Arcot Sowmya, Ian Katz, Dadong Wang Presenter: Hongyan Xu, The University of New South Wales, Australia
C266 (Wed-PM)	Exploring the Design Space of 3D MLLMs for CT Report Generation Authors: Mohammed Baharoon, Jun Ma, Congyu Fang, Augustin Toma, Bo Wang Presenter: Mohammed Baharoon, Harvard University, United States
C271 (Wed-PM)	LTSE: Language-guided Tissue Referring Segmentation in Pathology Images with Adaptive Expert Mixture Authors: Jiao Tang, Bo Qian, Peng Wan, Wei Shao, Daoqiang Zhang Presenter: Jiao Tang, Nanjing University of Aeronautics and Astronautics, China
C276 (Wed-PM)	DGHFA: Dynamic Gradient and Hierarchical Feature Alignment for Robust Distillation of Medical VLMs Authors: Boyi Xiao, Jianghao Wu, Lanfeng Zhong, Xiaoguang Zou, Yuanquan Wu, Guotai Wang, Shooting Zhang Presenter: Boyi Xiao, University of Science and Technology of China and Shanghai Artificial Intelligence Laboratory, China
C281 (Wed-PM)	Geometry-Guided Local Alignment for Multi-View Visual Language Pre-Training in Mammography Authors: Yuexi Du, Lihui Chen, Nicha C. Dvornek Presenter: Yuexi Du, Yale University, United States
C286 (Wed-PM)	PATE: Enhancing Few-Shot Pathological Image Classification via Prompt-Based Text-Image Embedding Adaptation Authors: Shenghao Chen, Zhen Huang, Xiaoqian Zhou, Han Li, Chunjiang Wang, S. Kevin Zhou Presenter: Zhen Huang, University of Science and Technology of China, China
C291 (Wed-PM)	Pathology Report Generation and Multimodal Representation Learning for Cutaneous Melanocytic Lesions Authors: Ruben T. Lucassen, Sander P. J. Moonemans, Tijn van de Lijftgaarden, Gerben E. Breimer, Willeke A. M. Blokk, Mitko Veta Presenter: Ruben Lucassen, University Medical Center Utrecht, The Netherlands
C296 (Wed-PM)	From Slices to Volumes: Multi-Scale Fusion of 2D and 3D Features for CT Scan Report Generation Authors: Abdullah Hosseini, Ahmed Ibrahim, Ahmed Serag Presenter: Abdullah Hosseini, Weill Cornell Medicine - Qatar, Qatar
C301 (Wed-PM)	Tumor Microenvironment-Guided Fine-Tuning of Pathology Foundation Models for Esophageal Squamous Cell Carcinoma Immunotherapy Response Prediction Authors: Yixuan Lin, Weiping Lin, Chenxu Guo, Xinxin Yang, Hongxue Meng, Liansheng Wang Presenter: Yixuan Lin, Xiamen University, China
C306 (Wed-PM)	MOTOR: Multimodal Optimal Transport via Grounded Retrieval in Medical Visual Question Answering Authors: Mai A. Shaaban, Tausifa Jan Saleem, Vijay Ram Kumar Papineni, Mohammad Yaqub

Presenter: Mai A. Shaaban, Mohamed Bin Zayed University of Artificial Intelligence, United Arab Emirates

- C311 (Wed-PM)

Med-LEGO: Editing and Adapting toward Generalist Medical Image Diagnosis
Authors: Yitao Zhu, Yuan Yin, Jiaming Li, Mengjie Xu, Zihao Zhao, Honglin Xiong, Sheng Wang, Qian Wang
Presenter: Yitao Zhu, ShanghaiTech University, China
- C316 (Wed-PM)

RetSTA: An LLM-Based Approach for Standardizing Clinical Fundus Image Reports
Authors: Jiushen Cai, Weihang Zhang, Hanruo Liu, Ningli Wang, Huiqi Li
Presenter: Jiushen Cai, Beijing Institute of Technology, China
- C321 (Wed-PM)

Eliminating Language Bias for Medical Visual Question Answering with Counterfactual Contrastive Training
Authors: Xingyu Wan, Qiaoying Teng, Jun Chen, Yonghan Lu, Deqi Yuan, Zhe Liu
Presenter: Qiaoying Teng, Jiangsu University, China
- C326 (Wed-PM)

Bridging Radiological Images and Factors with Vision-Language Model for Accurate Diagnosis of Proliferative Hepatocellular Carcinoma
Authors: Yanyan Huang, Wanli Zhang, Peixiang Huang, Yu Fu, Ruimeng Yang, Lequan Yu
Presenter: Yanyan Huang, The University of Hong Kong, Hong Kong SAR
- C331 (Wed-PM)

Radar-Based Imaging for Sign Language Recognition in Medical Communication
Authors: Raffaele Mineo, Gaia Caligiore, Federica Proietto Salanitri, Isaak Kavasidis, Senya Polikovsky, Sabina Fontana, Egidio Ragonese, Concetto Spampinato, Simone Palazzo
Presenter: Raffaele Mineo, University of Catania, Italy
- C336 (Wed-PM)

Semantic-Aware Chest X-ray Report Generation with Domain-Specific Lexicon and Diversity-Controlled Retrieval
Authors: Baochang Zhang, Chen Jia, Shuting Liu, Heribert Schunkert, Nassir Navab
Presenter: Baochang Zhang, Technical University of Munich, Germany

Poster Session 2: Detection, Segmentation, and Registration / Explainability and Interpretability / Data Quality and Image Restoration

Thursday, September 25, 2025, 11:00 – 12:30

Poster Hall (DCC 2)

- A2 (Thu-AM)

X-SiT: Inherently Interpretable Surface Vision Transformers for Dementia Diagnosis
Authors: Fabian Bongratz, Tom Nuno Wolf, Jaume Gual Ramon, Christian Wachinger
Presenter: Fabian Bongratz, Technical University of Munich, Germany
- A7 (Thu-AM)

Explainable ADHD Diagnostic Framework Using Weakly-Supervised Action Recognition
Authors: Ninghan Fan, Ming Kong, Jing Huang, Bingdi Chen, Qiang Zhu
Presenter: Ninghan Fan, Zhejiang University, China
- A12 (Thu-AM)

CytoSAE: Interpretable Cell Embeddings for Hematology
Authors: Muhammed Furkan Dasdelen, Hyesu Lim, Michele Buck, Katharina S. Götze, Carsten Marr, Steffen Schneider
Presenter: Muhammed Furkan Dasdelen, Helmholtz Munich, Germany
- A17 (Thu-AM)

Fusing Radiomic Features with Deep Representations for Gestational Age Estimation in Fetal Ultrasound Images
Authors: Fangyijie Wang, Yuan Liang, Sourav Bhattacharjee, Abey Campbell, Kathleen M. Curran, Guénolé Silvestre
Presenter: Fangyijie Wang, University College Dublin, Ireland
- A22 (Thu-AM)

NeuroXVocal: Detection and Explanation of Alzheimer’s Disease through Non-invasive Analysis of Picture-prompted Speech
Authors: Nikolaos Ntampakis, Konstantinos Diamantaras, Ioanna Chouvarda, Magda Tsolaki, Panagiotis Sarigiannidis, Vasileios Argyriou
Presenter: Nikolaos Ntampakis, International Hellenic University, Greece
- A27 (Thu-AM)

IP-CRR: Information Pursuit for Interpretable Classification of Chest Radiology Reports
Authors: Yuyan Ge, Kwan Ho Ryan Chan, Pablo Messina, René Vidal
Presenter: Pablo Messina, Pontifical Catholic University of Chile, Chile
- A32 (Thu-AM)

Spatial regularisation for improved accuracy and interpretability in keypoint-based registration
Authors: Benjamin Billot, Ramya Muthukrishnan, Esra Abaci Turk, P. Ellen Grant, Nicholas Ayache, Hervé Delingette, Polina Golland

Presenter: Benjamin Billot, Inria, Epione team, France

A37 (Thu-AM)	MAGNET-AD: Multitask Spatiotemporal GNN for Interpretable Prediction of PACC and Conversion Time in Preclinical Alzheimer Authors: Salma Hassan, Mostafa Salem, Vijay Ram Kumar Papineni, Ayman Elsayed, Mohammad Yaqub Presenter: Salma Hassan, Mohamed Bin Zayed University of Artificial Intelligence, United Arab Emirates
A42 (Thu-AM)	Prototype-Based Multiple Instance Learning for Gigapixel Whole Slide Image Classification Authors: Susu Sun, Dominique van Midden, Geert Litjens, Christian F. Baumgartner Presenter: Susu Sun, University of Tübingen, Germany
A47 (Thu-AM) Paper Highlight	Training-free Test-time Improvement for Explainable Medical Image Classification Authors: Hangzhou He, Jiachen Tang, Lei Zhu, Kaiwen Li, Yanye Lu Presenter: Hangzhou He, Peking University, China
A52 (Thu-AM)	GeneMorphFormer: Transformer-Driven Cross-Scale Mapping from Gene Expression to Cortical Morphology Authors: Xiao Li, Han Zhang, Qitai Sun, Chenjie Jia, Xiaowei He, Yudan Ren Presenter: Xiao Li, Northwest University, China
A57 (Thu-AM)	CoPA: Hierarchical Concept Prompting and Aggregating Network for Explainable Diagnosis Authors: Yiheng Dong, Yi Lin, Xin Yang Presenter: Yiheng Dong, Huazhong University of Science and Technology, China
A62 (Thu-AM)	Interpretable fMRI Captioning via Contrastive Learning Authors: Vyacheslav Shen, Kassymzhomart Kunanbayev, Donggon Jang, Daeshik Kim Presenter: Kassymzhomart Kunanbayev, Korea Advanced Institute of Science & Technology, Republic of Korea
A67 (Thu-AM)	E-BayesSAM: Efficient Bayesian Adaptation of SAM with Self-Optimizing KAN-Based Interpretation for Uncertainty-Aware Ultrasonic Segmentation Authors: Bin Huang, Zhong Liu, Huiying Wen, Bingsheng Huang, Xin Chen, Shuo Li Presenter: Bin Huang, Shenzhen University, China
A72 (Thu-AM) Paper Highlight	Latent Motion Profiling for Annotation-free Cardiac Phase Detection in Adult and Fetal Echocardiography Videos Authors: Yingyu Yang, Qianye Yang, Kangning Cui, Can Peng, Elena D’Alberti, Netzahualcoyotl Hernandez-Cruz, Olga Patey, Aris T. Papageorghiou, J. Alison Noble Presenter: Yingyu Yang, University of Oxford, United Kingdom
A77 (Thu-AM)	PolarDETR: Enhancing Interpretability in Multi-modal Methods for Jawbone Lesion Detection in CBCT Authors: Yuxuan Yang, Chen Zhong, Xinyue Zhang, Ruohan Ma, Gang Li, Yong Guo, Jupeng Li Presenter: Yuxuan Yang, Beijing Jiaotong University, China
A82 (Thu-AM)	Separable tissue representations for attributable risk prediction Authors: Victor Wåhlstrand, Jennifer Alvé, Lisa Johansson, Kristian Axelsson, Mattias Lorentzon, Ida Häggström Presenter: Victor Wåhlstrand, Chalmers University of Technology, Sweden
A87 (Thu-AM)	Unpaired Multi-Site Brain MRI Harmonization with Image Style-Guided Latent Diffusion Authors: Mengqi Wu, Minhui Yu, Weili Lin, Pew-Thian Yap, Mingxia Liu Presenter: Qianqian Wang, University of North Carolina at Chapel Hill, United States
A92 (Thu-AM)	Patient-specific radiomic feature selection with reconstructed healthy persona of knee MR images Authors: Yaxi Chen, Simin Ni, Shaheer U. Saeed, Aleksandra Ivanova, Rikin Hargunani, Jie Huang, Chaozong Liu, Yipeng Hu Presenter: Yaxi Chen, University College London, United Kingdom
A97 (Thu-AM)	Fine-tuning Vision Language Models with Graph-based Knowledge for Explainable Medical Image Analysis Authors: Chenjun Li, Laurin Lux, Alexander H. Berger, Martin J. Menten, Mert R. Sabuncu, Johannes C. Paetzold Presenter: Johannes Paetzold, Weill Cornell Medicine, United States
A102 (Thu-AM)	This EEG Looks Like These EEGs: Interpretable Interictal Epileptiform Discharge Detection With ProtoEEG-kNN

Authors: Dennis Tang, Jon Donnelly, Alina Jade Barnett, Lesia Semenova, Jin Jing, Peter Hadar, Ioannis Karakis, Olga Selioutski, Kehan Zhao, M. Brandon Westover, Cynthia Rudin
Presenter: Dennis Tang, Duke University, United States

A107 (Thu-AM)	Disentangled and Interpretable Multimodal Attention Fusion for Cancer Survival Prediction Authors: Aniek Eijpe, Soufyan Lakbir, Melis Erdal Cesur, Sara P. Oliveira, Sanne Abeln, Wilson Silva Presenter: Aniek Eijpe, Utrecht University, The Netherlands
A112 (Thu-AM)	LLM-Powered Cross-Modal Alignment for Explainable Seizure Detection from EEG Authors: Maryam Riazi, Deeksha M. Shama, Archana Venkataraman Presenter: Deeksha M. Shama, Johns Hopkins University, United States
A117 (Thu-AM)	One For All: A Unified Approach to Classification and Self-Explanation Authors: Mehdi Naouar, Yannick Vogt, Joschka Boedecker, Gabriel Kalweit, Maria Kalweit Presenter: Mehdi Naouar, University of Freiburg, Germany
A122 (Thu-AM) Paper Highlight	ProgreSpine: Inherently Explainable Prototypical Regression for Spine Age Estimation Authors: Roozbeh Bazargani, Saqib Basar, Sam Hashemi, Siavash Khallaghi Presenter: Sam Hashemi, Prenuvo Inc., Canada
A127 (Thu-AM) Paper Highlight	An Anatomical Significance-Aware Architecture for Explainable Myocardial Infarction Prediction via Multi-Task Learning Authors: Jiachuan Peng, Marcel Beetz, Abhirup Banerjee, Min Chen, Vicente Grau Presenter: Jiachuan Peng, University of Oxford, United Kingdom
A132 (Thu-AM) Paper Highlight	Uncertainty-Supervised Interpretable and Robust Evidential Segmentation Authors: Yuzhu Li, An Sui, Fuping Wu, Xiahai Zhuang Presenter: An Sui, Fudan University, China
A137 (Thu-AM)	Flip Distribution Alignment VAE for Multi-Phase MRI Synthesis Authors: Xiaoyan Kui, Qianmu Xiao, Qinsong Li, Zexin Ji, Jieli Zhang, Beiji Zou Presenter: Qianmu Xiao, Central South University, China
A142 (Thu-AM) Paper Highlight	NIMOSEF: Neural implicit motion and segmentation functions Authors: Jaume Banus, Antoine Delaloye, Pedro M. Gordaliza, Costa Georgantas, Ruud B. van Heeswijk, Jonas Richiardi Presenter: Jaume Banus, Lausanne University Hospital, CHUV, Switzerland
A197 (Thu-AM)	LVPNet: A Latent-variable-based Prediction-driven End-to-end Framework for Lossless Compression of Medical Images Authors: Chenyue Song, Chen Hui, Qing Lin, Wei Zhang, Siqiao Li, Haiqi Zhu, Shengping Zhang, Zhixuan Li, Shaohui Liu, Feng Jiang, Xiang Li Presenter: Chenyue Song, Harbin Institute of Technology, China
A202 (Thu-AM)	End-to-End 3D Tooth Landmark Detection with Fuzzy Tooth Localization Authors: Kaibo Shi, Hairong Jin, Youyi Zheng Presenter: Kaibo Shi, Zhejiang University, China
A207 (Thu-AM)	Controllable Image Synthesis Workflow for Enhancing Cervical Cell Detection Authors: Yihuang Hu, Qi Chen, Linbo Liao, Weiping Lin, Huisi Wu, Liansheng Wang Presenter: Yihuang Hu, Xiamen University, China
A212 (Thu-AM)	Register Anything: Estimating “Corresponding Prompts” for Segment Anything Model Authors: Shiqi Huang, Tingfa Xu, Wen Yan, Dean Barratt, Yipeng Hu Presenter: Shiqi Huang, University College London, United Kingdom
A217 (Thu-AM)	RadSAM: Segmenting 3D radiological images with a 2D promptable model Authors: Julien Khlaut, Elodie Ferreres, Daniel Tordjman, Helene Philippe, Tom Boeken, Pierre Manceron, Corentin Dancette Presenter: Julien Khlaut, Raidium, France
A222 (Thu-AM)	SafeClick: Error-Tolerant Interactive Segmentation of Any Medical Volumes via Hierarchical Expert Consensus Authors: Yifan Gao, Jiaxi Sheng, Wenbin Wu, Haoyue Li, Yaoxian Dong, Chaoyang Ge, Feng Yuan, Xin Gao Presenter: Yifan Gao, University of Science and Technology of China, China
A227 (Thu-AM)	Spatial Prior-Guided Boundary and Region-Aware 2D Lesion Segmentation in Neonatal Hypoxic Ischemic Encephalopathy Authors: Amog Rao, Ananya Shukla, Jia Bhargava, Yangming Ou, Rina Bao Presenters: Amog Rao and Ananya Shukla, Plaksha University, India

A232 (Thu-AM)	Deep Learning-based Alignment Measurement in Knee Radiographs <i>Authors: Zhisen Hu, Dominic Cullen, Peter Thompson, David Johnson, Chang Bian, Aleksei Tiulpin, Timothy Cootes, Claudia Lindner</i> <i>Presenter: Zhisen Hu, The University of Manchester, United Kingdom</i>
A237 (Thu-AM)	Ambiguous Medical Image Segmentation Using Diffusion Schrödinger Bridge <i>Authors: Lalith Bharadwaj Baru, Kamalaker Dadi, Tapabrata Chakraborti, Raju S. Bapi</i> <i>Presenter: Lalith Bharadwaj Baru, International Institute of Information Technology - Hyderabad, India</i>
A242 (Thu-AM) Paper Highlight	EfficientMedNeXt: Multi-Receptive Dilated Convolutions for Medical Image Segmentation <i>Authors: Md Mostafijur Rahman, Mustafa Munir, Radu Marculescu</i> <i>Presenter: Md Mostafijur Rahman, The University of Texas at Austin, United States</i>
A247 (Thu-AM)	Probabilistic Inverse Consistent Image Registration Using Sparse Bayesian Network <i>Authors: Shenglong Yang, Kangrong Xu, Zefeng He, Tianchao Feng, Xuan Yang</i> <i>Presenter: Shenglong Yang, Shenzhen University, China</i>
A252 (Thu-AM)	Multimodal Prompt Sequence Learning for Interactive Segmentation of Vascular Structures <i>Authors: Jongsoo Lim, Soochahn Lee</i> <i>Presenter: Jongsoo Lim, Kookmin University, Republic of Korea</i>
A257 (Thu-AM) Paper Highlight	PDC-Net: Pattern Divide-and-Conquer Network for Pelvic Radiation Injury Segmentation <i>Authors: Xinyu Xiong, Wuteng Cao, Zihuang Wu, Lei Zhang, Chong Gao, Guanbin Li, Qiyuan Qin</i> <i>Presenter: Chong Gao, Sun Yat-sen University, China</i>
A262 (Thu-AM)	Region-Based Text-Consistent Augmentation for Multimodal Medical Segmentation <i>Authors: Kunyan Cai, Chenggang Yan, Min He, Liangqiong Qu, Shuai Wang, Tao Tan</i> <i>Presenter: Kunyan Cai, Macao Polytechnic University, Macao SAR</i>
A267 (Thu-AM)	PRAD: Periapical Radiograph Analysis Dataset and Benchmark Model Development <i>Authors: Zhenhuan Zhou, Yuchen Zhang, Ruihong Xu, Xuansen Zhao, Tao Li</i> <i>Presenter: Zhenhuan Zhou, Nankai University, China</i>
A272 (Thu-AM) Paper Highlight	ITMatch: Arch-Guided Semi-Supervised Tooth Arrangement via Iterative Confidence Evaluation <i>Authors: Chengyuan Wang, Zhihui He, Li Chen, Shidong Yang, Guiyu Sun, Fan Duan, Shuo Wang, Yanheng Zhou</i> <i>Presenter: Chengyuan Wang, Tsinghua University, China</i>
A277 (Thu-AM)	Bowsher prior Enhanced Unsupervised PET image Denoising <i>Authors: Zhongxue Wu, Jiankai Wu, Jianan Cui, Yuanjing Feng, Zan Chen</i> <i>Presenter: Zhongxue Wu, Zhejiang University of Technology, China</i>
A282 (Thu-AM)	STEAM: Self-supervised TEeth Analysis and Modeling for Point Cloud Segmentation <i>Authors: Yifan Liu, Chen Yang, Weihao Yu, Xinyu Liu, Hui Chen, Max Q.-H. Meng, Yixuan Yuan</i> <i>Presenter: Yifan Liu, The Chinese University of Hong Kong, China</i>
A287 (Thu-AM)	CT-Based Hippocampus Segmentation with Dual-Decoder Network (HDD-Net) <i>Authors: Wonjun Son, Ji Young Lee, Sung Jun Ahn, Hyunyeol Lee</i> <i>Presenter: Wonjun Son, Kyungpook National University, Republic of Korea</i>
A292 (Thu-AM)	Is Hyperbolic Space All You Need for Medical Anomaly Detection? <i>Authors: Alvaro Gonzalez-Jimenez, Simone Lionetti, Ludovic Amruthalingam, Philippe Gottfrois, Fabian Gröger, Marc Pouly, Alexander A. Navarini</i> <i>Presenter: Alvaro Gonzalez-Jimenez, University Hospital of Basel, Switzerland</i>
A297 (Thu-AM)	Hierarchical Spatio-temporal Segmentation Network for Ejection Fraction Estimation in Echocardiography Videos <i>Authors: Dongfang Wang, Jian Yang, Yizhe Zhang, Tao Zhou</i> <i>Presenter: Dongfang Wang, Nanjing University of Science and Technology, China</i>
A302 (Thu-AM)	Generative Unsupervised Anomaly Detection with Coarse-Fine Ensemble for Workload Reduction in 3D Non-contrast Brain CT of Emergency Room <i>Authors: Jongjun Won, Jihwan Kim, Joonseo Oh, Yereen Yoo, Jieun Yum, Joonsang Lee, Joon Hyung Park, Wooyoung Jo, Yoojin Nam, Hyunki Lee, Gil-sun Hong, Namkug Kim</i> <i>Presenter: Jongjun Won, Asan Medican Center, Republic of Korea</i>
A307 (Thu-AM)	MoDiff: A Morphology-Emphasized Diffusion Model for Ambiguous Medical Image Segmentation <i>Authors: Jung Su Ahn, Ki Hoon Kwak, Jung Woo Seo, Young-Rae Cho</i>

Presenter: Ki Hoon Kwak, Yonsei University, Republic of Korea

A312 (Thu-AM)	Harnessing EHRs for Diffusion-based Anomaly Detection on Chest X-rays <i>Authors: Harim Kim, Yuhan Wang, Minkyu Ahn, Heeyoul Choi, Yuyin Zhou, Charmgil Hong</i> <i>Presenter: Harim Kim, Handong Global University, Republic of Korea</i>
A317 (Thu-AM)	Aorta Multi-class Segmentation via Anatomically Constrained Plane Detection <i>Authors: Jonghoon An, Dong Hyun Lee, So Hyun Kim, Taejin Moon, Minyoung Chung</i> <i>Presenter: Jonghoon An, Soongsil University, Republic of Korea</i>
A322 (Thu-AM)	MTCNet: Motion and Topology Consistency Guided Learning for Mitral Valve Segmentation in 4D Ultrasound <i>Authors: Rusi Chen, Yuanting Yang, Jiezhi Yao, Hongning Song, Ji Zhang, Yongsong Zhou, Yuhao Huang, Ronghao Yang, Dan Jia, Yuhan Zhang, Xing Tao, Haoran Dou, Qing Zhou, Xin Yang, Dong Ni</i> <i>Presenter: Rusi Chen, Shenzhen University, China</i>
A327 (Thu-AM)	PFESA: FFT-based Parameter-Free Edge and Structure Attention for Medical Image Segmentation <i>Authors: Mingqian Li, Zhiqian Yan, Miaoning Yan, Yaodong Liang, Qingmao Zhang, Qiongxiang Ma</i> <i>Presenter: Mingqian Li, South China Normal University, China</i>
A332 (Thu-AM)	Gaussian Primitive Optimized Deformable Retinal Image Registration <i>Authors: Xin Tian, Jiazheng Wang, Yuxi Zhang, Xiang Chen, Renjiu Hu, Gaolei Li, Min Liu, Hang Zhang</i> <i>Presenter: Xin Tian, University of Oxford, United Kingdom</i>
A364 (Thu-AM) Paper Highlight	Conformal Prediction for Image Segmentation Using Morphological Prediction Sets <i>Authors: Luca Mossina, Corentin Friedrich</i> <i>Presenter: Luca Mossina, IRT Saint Exupéry, France</i>
A371 (Thu-AM)	Edge-Aware Token Halting for Efficient and Accurate Medical Image Segmentation <i>Authors: Yuhao Guo, Bo Song, Heng Fan, Erkang Cheng</i> <i>Presenter: Yuhao Guo, Hefei Institutes of Physical Science, Chinese Academy of Sciences, China</i>
A377 (Thu-AM)	Structure-Preserve Expansion for Medical Image Registration with Minimal Overlap <i>Authors: Zaiyuan Liu, Yongsheng Pan, Yong Xia</i> <i>Presenter: Zaiyuan Liu, Northwestern Polytechnical University, China</i>
B2 (Thu-AM) Paper Highlight	Directional Adaptive Shuffle-Based Visual State-Space Models for Medical Image Restoration <i>Authors: Simon C. K. Chan, Lulin Shi, Bingxin Huang, Terence T. W. Wong</i> <i>Presenter: Simon C. K. Chan, The Hong Kong University of Science and Technology, Hong Kong SAR</i>
B7 (Thu-AM)	BME2: A Plug-and-Play Bridge-Based Module for Misalignment Estimation and Elimination in Multi-Scan Image Restoration <i>Authors: Wenxuan Chen, Caiwen Jiang, Xiaolei Song, Dinggang Shen</i> <i>Presenter: Wenxuan Chen, Tsinghua University, China</i>
B12 (Thu-AM)	HyperSORT: Self-Organising Robust Training with hyper-networks <i>Authors: Samuel Joutard, Marijn Stollenga, Marc Balle Sanchez, Mohammad Farid Azampour, Raphael Prevost</i> <i>Presenter: Samuel Joutard, ImFusion GmbH, Germany</i>
B17 (Thu-AM)	A Hybrid Contrastive Ordinal Regression Method for Advancing Disease Severity Assessment in Imbalanced Medical Datasets <i>Authors: Afsah Saleem, Joshua R. Lewis, Syed Zulqarnain Gilani</i> <i>Presenter: Afsah Saleem, Edith Cowan University, Australia</i>
B22 (Thu-AM) Paper Highlight	DiffOSeg: Omni Medical Image Segmentation via Multi-Expert Collaboration Diffusion Model <i>Authors: Han Zhang, Xiangde Luo, Yong Chen, Kang Li</i> <i>Presenter: Han Zhang, Sichuan University, China</i>
B27 (Thu-AM) Paper Highlight	Towards Automated Pediatric Dental Development Staging: A Dataset and Model <i>Authors: Peng Wang, Along He, Anli Wang, Zhenhuan Zhou, Xiaohang Guan, Tao Li</i> <i>Presenter: Peng Wang, Nankai University, China</i>
B32 (Thu-AM)	MAGO-SP: Detection and Correction of Water-Fat Swaps in Magnitude-Only VIBE MRI

Authors: Robert Graf, Hendrik Möller, Sophie Starck, Matan Atad, Philipp Braun, Jonathan Stelter, Annette Peters, Lilian Krist, Stefan N. Willich, Henry Völzke, Robin Bülow, Tobias Pischon, Thoralf Niendorf, Johannes C. Paetzold, Dimitrios Karampinos, Daniel Rueckert, Jan Kirschke
Presenter: Robert Graf, TUM University Hospital, Germany

B37 (Thu-AM)	Self is the Best Learner: CT-free Ultra-Low-Dose PET Organ Segmentation via Collaborating Denoising and Segmentation Learning Authors: Zanting Ye, Xiaolong Niu, Xu Han, Xuanbin Wu, Wantong Lu, Yijun Lu, Hao Sun, Yanchao Huang, Hubing Wu, Lijun Lu Presenter: Zanting Ye, Southern Medical University, China
B42 (Thu-AM)	VisNet: A Human Visual System Inspired Lightweight Dual-Path Network for Medical Images Denoising Authors: Hailin Yue, Hulin Kuang, Lei Ma, Jin Liu, Junjian Li, Jianhong Cheng, Jianxin Wang Presenter: Hailin Yue, Central South University, China
B47 (Thu-AM)	D2MAE: Diffusional Deblurring MAE for Ultrasound Image Pre-training Authors: Qingbo Kang, Jun Gao, Hongkai Zhao, Zhu He, Kang Li, Qicheng Lao Presenter: Qingbo Kang, West China Hospital of Sichuan University, China
B52 (Thu-AM)	Finer Disentanglement of Aleatoric Uncertainty Can Accelerate Chemical Histopathology Imaging Authors: Ji-Hun Oh, Kianoush Falahkheirkhah, Rohit Bhargava Presenter: Ji-Hun Oh, University of Illinois Urbana-Champaign, United States
B57 (Thu-AM)	Metastatic Lymph Node Station Classification in Esophageal Cancer via Prior-guided Supervision and Station-Aware Mixture-of-Experts Authors: Haoshen Li, Yirui Wang, Qinji Yu, Jie Zhu, Ke Yan, Dazhou Guo, Le Lu, Bin Dong, Li Zhang, Xianghua Ye, Qifeng Wang, Dakai Jin Presenter: Haoshen Li, Peking University, China
Paper Highlight	
B62 (Thu-AM)	NQNN: Noise-aware Quantum Neural Networks for Medical Image Classification Authors: Maqsudur Rahman, Jun Zhuang Presenter: Maqsudur Rahman, Boise State University, United States
B67 (Thu-AM)	MRI Motion Artifact Correction via Frequency-Assisted Artifact Disentanglement and Confidence-Guided Knowledge Distillation Authors: Jiazhen Wang, Heran Yang, Yizhe Yang, Jian Sun Presenter: Jiazhen Wang, Xi'an Jiaotong University, China
B72 (Thu-AM)	BayeSMM: Robust Deep Combined Computing Tackling Heavy-tailed Distribution in Medical Images Authors: Yuanye Liu, Ruoxuan Zhen, Shangqi Gao, Xinzhe Luo, Xin Gao, Qingchao Chen, Xiahai Zhuang Presenter: Yuanye Liu, Fudan University, China
Paper Highlight	
B77 (Thu-AM)	Path Signature Features Revealed SSRI-Induced White Matter Morphological Reorganization in Depressions Authors: Jiaolong Qin, Weihong Dong, Huangjing Ni, Zhijian Yao, Qing Lu, Ye Wu Presenter: Ye Wu, Nanjing University of Science and Technology, China
B82 (Thu-AM)	MorphoBoost: Morphology-Driven Boundary Enhancement Model for Accurate Segmentation of Langerhans Cells in Corneal Confocal Microscopy Images Authors: Hongshuo Li, Ankai Dong, Tiande Zhang, Shijia Zhou, Yalin Zheng, Lei Mou, Yitian Zhao Presenter: Hongshuo Li, Ningbo Institute of Materials Technology & Engineering, Chinese Academy of Sciences, China
Paper Highlight	
B87 (Thu-AM)	Structure and Smoothness Constrained Dual Networks for MR Bias Field Correction Authors: Dong Liang, Xingyu Qiu, Yuzhen Li, Wei Wang, Kuanquan Wang, Suyu Dong, Gongning Luo Presenter: Gongning Luo, Harbin Institute of Technology, China
B92 (Thu-AM)	MoMIL: Mixture of Multi-Instance Learners for Modeling Multiple Compound Activities in High Content Imaging Authors: Pushpak Pati, Hsiu-Chi Cheng, Steffen Jaensch, Walid M. Abdelmoula, Krishna Chaitanya, Michiel Van Dyck, Tomé Albuquerque, Samantha Allen, Litao Zhang, Tommaso Mansi, Rui Liao, Zhoubing Xu Presenter: Pushpak Pati, Johnson & Johnson, Switzerland
B97 (Thu-AM)	Weighted Stratification in Multi-Label Contrastive Learning for Long-Tailed Medical Image Classification

Authors: Ying-Chih Lin, Yong-Sheng Chen
Presenter: Ying-Chih Lin, National Yang Ming Chiao Tung University, Taiwan

B102 (Thu-AM)	FIND-Net – Fourier-Integrated Network with Dictionary Kernels for Metal Artifact Reduction Authors: Farid Tasharofi, Fuxin Fan, Melika Qahqaie, Mareike Thies, Andreas Maier Presenter: Farid Tasharofi, Friedrich-Alexander-Universität Erlangen, Germany
B107 (Thu-AM)	SAMed-2: Selective Memory Enhanced Medical Segment Anything Model Authors: Zhiling Yan, Sifan Song, Dingjie Song, Yiwei Li, Rong Zhou, Weixiang Sun, Zhenhong Chen, Sekeun Kim, Hui Ren, Tianming Liu, Quanzheng Li, Xiang Li, Lifang He, Lichao Sun Presenter: Quanzheng Li, Massachusetts General Hospital and Harvard Medical School, United States
B112 (Thu-AM)	SIMPLE: Simultaneous Multi-plane Self-supervised Learning for Isotropic MRI Restoration from Anisotropic Data Authors: Rotem Benisty, Yevgenia Shteynman, Moshe Porat, Anat Ilivitzki, Moti Freiman Presenter: Rotem Benisty, Technion - Israel Institute of Technology, Israel
B117 (Thu-AM)	Meta-Learning-Driven CT Morphology Disentangled Diffusion Model for Multi-Region SPECT Attenuation Correction Authors: Haoran Yang, Jiansong Fan, Lihua Li, Xiang Pan Presenter: Haoran Yang, Jiangnan University, China
B122 (Thu-AM) Paper Highlight	Inferring Super-Resolved Gene Expression by Integrating Histology Images and Spatial Transcriptomics with HISTEX Authors: Shuailin Xue, Changmiao Wang, Xiaomao Fan, Wenwen Min Presenter: Changmiao Wang, Yunnan University, China
B127 (Thu-AM)	A Frequency-Aware Self-Supervised Learning for Ultra-Wide-Field Image Enhancement Authors: Weicheng Liao, Zan Chen, Jianyang Xie, Yalin Zheng, Yuhui Ma, Yitian Zhao Presenter: Weicheng Liao, Ningbo Institute of Materials Technology & Engineering, Chinese Academy of Sciences, China
B132 (Thu-AM)	DiffStain: Conditioned Diffusion-Based Semantic Virtual Staining with Mask Guidance Authors: Yikai Han, Jimao Jiang, Yuru Pei Presenter: Yikai Han, Beihang University, China
B137 (Thu-AM) Paper Highlight	Multi-Tracer Uptake Correction for PET-MR via Aligned-Feature Guidance and Multi-scale Pixel-adaptive Routing Authors: Aocheng Zhong, Haolin Huang, Jing Wang, Zhenrong Shen, Haiyu Song, Junlei Wu, Yuhua Zhu, Yang Liu, Chuantao Zuo, Qian Wang Presenter: Aocheng Zhong, ShanghaiTech University, China
B142 (Thu-AM)	MediQA: A Scalable Foundation Model for Prompt-Driven Medical Image Quality Assessment Authors: Siyi Xun, Yue Sun, Jingkun Chen, Zitong Yu, Tong Tong, Xiaohong Liu, Mingxiang Wu, Tao Tan Presenter: Siyi Xun, Macao Polytechnic University, China
B147 (Thu-AM)	MS-IQA: A Multi-Scale Feature Fusion Network for PET/CT Image Quality Assessment Authors: Siqiao Li, Chen Hui, Wei Zhang, Rui Liang, Chenyue Song, Feng Jiang, Haiqi Zhu, Zhixuan Li, Hong Huang, Xiang Li Presenter: Siqiao Li, Harbin Institute of Technology, China
B152 (Thu-AM)	Background-Invariant Independence-Guided Multi-head Attention Network for Skin Lesion Classification Authors: Debasmit Roy, Srinjoy Dutta, Soham Bose, Friedhelm Schwenker, Ram Sarkar Presenter: Debasmit Roy, Jadavpur University, India
B157 (Thu-AM) Paper Highlight	High-Res Brain Source Imaging of MEG using a Vector Bayesian Beamformer with Noise learning Authors: Tianyu Gao, Kunye Liu, Weikai Ma, Yang Gao, Xiaolin Ning Presenter: Tianyu Gao, Beihang University, China
B162 (Thu-AM)	Noisy Label Refinement Based on Discrete Diffusion Process in 3D Ossicle Segmentation Authors: Linqian Fan, Mengshi Zhang, Yonghao Wang, Wenkai Lu, Hongxia Yin Presenter: Linqian Fan, Tsinghua university, China
B167 (Thu-AM)	Cost-effective Active Learning for Nucleus Detection Using Crowdsourced Annotations with Dynamic Weighting Adjustment Authors: Jiao Tang, Yuankun Zu, Qi Zhu, Peng Wan, Daoqiang Zhang, Wei Shao Presenter: Jiao Tang, Nanjing University of Aeronautics and Astronautics, China

B172 (Thu-AM)	Advancing Medical Representation Learning Through High-Quality Data <i>Authors: Negin Baghbanzadeh, Adibvafa Fallahpour, Yasaman Parhizkar, Franklin Ogidi, Shuvendu Roy, Sajad Ashkezari, Vahid Reza Khazaie, Michael Colacci, Ali Etemad, Arash Afkanpour, Elham Dolatabadi</i> <i>Presenter: Negin Baghbanzadeh, York University, Canada</i>
Paper Highlight	
B177 (Thu-AM)	Improving Motor Imagery EEG Signal Quality with Dynamic Visual Cues: An Innovative Paradigm and Dataset <i>Authors: Chenxi Yue, Huawen Hu, Qilong Yuan, Enze Shi, Jiaqi Wang, Kui Zhao, Xuhui Wang, Shu Zhang</i> <i>Presenter: Shu Zhang, Northwestern Polytechnical University, China</i>
B182 (Thu-AM)	Diffusing Boundaries: CBCT-to-CT Translation with Extended Field of View <i>Authors: Quentin Spinat, Audrey Duran, Olivier Teboul, Nikos Paragios, Nikos Komodakis</i> <i>Presenter: Nikos Paragios, Therapanacea, France</i>
B187 (Thu-AM)	Lightweight Data-Free Denoising for Detail-Preserving Biomedical Image Restoration <i>Authors: Tomáš Chobola, Julia A. Schnabel, Tingying Peng</i> <i>Presenter: Tomáš Chobola, Helmholtz Munich, Germany</i>
B192 (Thu-AM)	Difficulty Estimation for Image-Specific Medical Image Segmentation Quality Control <i>Authors: Joris Fournel, Axel Bartoli, Baptiste Marchi, Arnaud Maurin, Siavash Arjomand Bigdeli, Alexis Jacquier, Aasa Feragen</i> <i>Presenter: Joris Fournel, Technical University of Denmark, Denmark</i>
B197 (Thu-AM)	Beyond Shadows: Learning Physics-inspired Ultrasound Confidence Maps from Sparse Annotations <i>Authors: Matteo Ronchetti, Rüdiger Göbl, Bugra Yesilkaynak, Oliver Zettinig, Nassir Navab</i> <i>Presenter: Matteo Ronchetti, ImFusion GmbH, Germany</i>
B202 (Thu-AM)	EchoViewCLIP: Advancing Video Quality Control through High-performance View Recognition of Echocardiography <i>Authors: Shanshan Song, Yi Qin, Honglong Yang, Taoran Huang, Hongwen Fei, Xiaomeng Li</i> <i>Presenter: Shanshan Song, The Hong Kong University of Science and Technology, Hong Kong SAR</i>
B207 (Thu-AM)	Pretraining on Chronic Lung Inflammatory Disease Datasets to Enhance Indeterminant Lung Cancer Classification using Masked Autoencoders <i>Authors: Axel H.P. Masquelin, Raúl San José Estépar</i> <i>Presenter: Axel Masquelin, Brigham and Women's Hospital, United States</i>
B212 (Thu-AM)	Fetuses Made Simple: Modeling and Tracking of Fetal Shape and Pose <i>Authors: Yingcheng Liu, Peiqi Wang, Sebastian Diaz, Esra Abaci Turk, Benjamin Billot, P. Ellen Grant, Polina Golland</i> <i>Presenter: Yingcheng Liu, Massachusetts Institute of Technology, United States</i>
B217 (Thu-AM)	Unsupervised Learning-Based Susceptibility Artifact Correction for Diffusion-Weighted MRI in Multiple Organs <i>Authors: Shihan Qiu, Radu Miron, Yahang Li, Cornelius Eichner, Thorsten Feiweier, Nirmal Janardhanan, Bryan Clifford, Omar Darwish, Mahmoud Mostapha, Mariappan S. Nadar</i> <i>Presenter: Radu Miron, Siemens Industry Software România, Romania</i>
B222 (Thu-AM)	Robust Deep Learning for Myocardial Scar Segmentation in Cardiac MRI with Noisy Labels <i>Authors: Aida Moafi, Danial Moafi, Evgeny M. Mirkes, Gerry P. McCann, Abbas S. Alatrany, Jayanth Ranjit Arnold, Mostafa Mehdipour Ghazi</i> <i>Presenter: Aida Moafi, University of Leicester, United Kingdom</i>
Paper Highlight	
B227 (Thu-AM)	From Variability To Accuracy: Conditional Bernoulli Diffusion Models with Consensus-Driven Correction for Thin Structure Segmentation <i>Authors: Jinseo An, Min Jin Lee, Kyu Won Shim, Helen Hong</i> <i>Presenter: Jinseo An, Seoul Women's University, Republic of Korea</i>
Paper Highlight	
B232 (Thu-AM)	Harnessing Side Information for Highly Accelerated MRI <i>Authors: Arda Atalik, Sumit Chopra, Daniel K. Sodickson</i> <i>Presenter: Arda Atalik, New York University, United States</i>
B237 (Thu-AM)	Uncertainty-Aware Multi-Expert Knowledge Distillation for Imbalanced Disease Grading <i>Authors: Shuo Tong, Shangde Gao, Ke Liu, Zihang Huang, Hongxia Xu, Haochao Ying, Jian Wu</i> <i>Presenter: Shuo Tong, Zhejiang University, China</i>

B242 (Thu-AM)	GRASP-PsONet: Gradient-based Removal of Spurious Patterns for Psoriasis Severity Classification <i>Authors: Basudha Pal, Sharif Amit Kamran, Brendon Lutnick, Molly Lucas, Chaitanya Parmar, Asha Patel Shah, David Apfel, Steven Fakharzadeh, Lloyd Miller, Gabriela Cula, Kristopher Standish</i> <i>Presenter: Basudha Pal, Johns Hopkins University, United States</i>
B247 (Thu-AM)	GL-LCM: Global-Local Latent Consistency Models for Fast High-Resolution Bone Suppression in Chest X-Ray Images <i>Authors: Yifei Sun, Zhanghao Chen, Hao Zheng, Yuqing Lu, Lixin Duan, Fenglei Fan, Ahmed Elazab, Xiang Wan, Changmiao Wang, Ruiquan Ge</i> <i>Presenter: Yifei Sun, Hangzhou Dianzi University, China</i>
B252 (Thu-AM)	CardioInterp: Generative Modeling for Cardiovascular OCT Interpolation with Anatomical Continuity and Fidelity <i>Authors: Linyuan Li, Bing Yang, Mingqing Zhang, Mengxian He, Wu Yuan</i> <i>Presenter: Linyuan Li, The Chinese University of Hong Kong, China</i>
B257 (Thu-AM)	Non-Salient Object Segmentation in Medical Images via Pre-trained Multi-Granularity Masked Autoencoders <i>Authors: Bin Zhang, Dongsheng Ruan, Ronghui Qi, Chenchu Xu, Yanping Zhang, Chengjin Yu, Lei Xu, Rui Wang</i> <i>Presenter: Bin Zhang, Anhui University, China</i>
B262 (Thu-AM)	EchoCardMAE: Video Masked Auto-Encoders Customized for Echocardiography <i>Authors: Xuan Yang, Rui Xu, Xinchen Ye, Zhihui Wang, Miao Zhang, Yi Wang, Xin Fan, Hongkai Wang, Qingxiong Yue, Xiangjian He, Yen-Wei Chen</i> <i>Presenter: Rui Xu, Dalian University of Technology, China</i>
B267 (Thu-AM)	Mono-Modalizing Extremely Heterogeneous Multi-Modal Medical Image Registration <i>Authors: Kyobin Choo, Hyunkyung Han, Jinyeong Kim, Chanyong Yoon, Seong Jae Hwang</i> <i>Presenter: Kyobin Choo, Yonsei University, Republic of Korea</i>
B272 (Thu-AM) Paper Highlight	TESLA: Test-time Reference-free Through-plane Super-resolution for Multi-contrast Brain MRI <i>Authors: Yoonseok Choi, Sunyoung Jung, Mohammed A. Al-masni, Ming-Hsuan Yang, Dong-Hyun Kim</i> <i>Presenter: Yoonseok Choi, Yonsei University, Republic of Korea</i>
B277 (Thu-AM) Paper Highlight	Query-Level Alignment for End-to-End Lesion Detection with Human Gaze <i>Authors: Yan Kong, Zhixiang Peng, Yuan Yin, Yonghao Li, Jiangdong Cai, Sheng Wang, Qian Wang, Yuqi Fang, Caifeng Shan</i> <i>Presenter: Yan Kong, Nanjing University, China</i>
B282 (Thu-AM) Paper Highlight	VesselVerse: A Dataset and Collaborative Framework for Vessel Annotation <i>Authors: Daniele Falcetta, Vincenzo Marciano, Kaiyuan Yang, Jon Cleary, Loïc Legris, Massimiliano Domenico Rizzaro, Ioannis Pitsiorlas, Hava Chaptoukaev, Benjamin Lemasson, Bjoern Menze, Maria A. Zuluaga</i> <i>Presenter: Daniele Falcetta, EURECOM, France</i>
B287 (Thu-AM)	UDPET: Ultra-low Dose PET Imaging Challenge Dataset <i>Authors: Song Xue, Hanzhong Wang, Yizhou Chen, Fanxuan Liu, Hong Zhu, Marco Viscione, Rui Guo, Axel Rominger, Biao Li, Kuangyu Shi</i> <i>Presenter: Yizhou Chen, University of Bern, Switzerland</i>
B292 (Thu-AM)	Pose as Clinical Prior: Learning Dual Representations for Scoliosis Screening <i>Authors: Zirui Zhou, Zizhao Peng, Dongyang Jin, Chao Fan, Fengwei An, Shiqi Yu</i> <i>Presenter: Zirui Zhou, Southern University of Science and Technology, China</i>
B297 (Thu-AM)	T2WI-BCMIC: Non-Fat Saturated T2-Weighted Imaging Dataset for Bladder Cancer Muscle Invasion Classification <i>Authors: Han Huang, Weiye Chen, Qiuxia Wu, Huanjun Wang, Qian Cai, Yan Guo</i> <i>Presenter: Qiuxia Wu, South China University of Technology, China</i>
B302 (Thu-AM)	Training state-of-the-art pathology foundation models with orders of magnitude less data <i>Authors: Mikhail Karasikov, Joost van Doorn, Nicolas Känzig, Melis Erdal Cesur, Hugo Mark Horlings, Robert Berke, Fei Tang, Sebastian Otálora</i> <i>Presenter: Juan Sebastian Otálora Montenegro, kaiko.ai, Switzerland</i>
B307 (Thu-AM)	The Missing Piece: A Case for Pre-Training in 3D Medical Object Detection <i>Authors: Katharina Eckstein, Constantin Ulrich, Michael Baumgartner, Jessica Kächele, Dimitrios Bounias, Tassilo Wald, Ralf Floca, Klaus H. Maier-Hein</i>

Presenter: Katharina Eckstein, German Cancer Research Center (DKFZ), Germany

B312 (Thu-AM)	Trexplorer Super: Topologically Correct Centerline Tree Tracking of Tubular Objects in CT Volumes <i>Authors: Roman Naeem, David Hagerman, Jennifer Alvé, Lennart Svensson, Fredrik Kahl</i> <i>Presenter: Roman Naeem, Chalmers University of Technology, Sweden</i>
B317 (Thu-AM)	Neural Proteomics Fields for Super-resolved Spatial Proteomics Prediction <i>Authors: Bokai Zhao, Weiyang Shi, Hanqing Chao, Zijiang Yang, Yiyang Zhang, Ming Song, Tianzi Jiang</i> <i>Presenter: Bokai Zhao, Institute of Automation, Chinese Academy of Sciences, China</i>
B322 (Thu-AM)	VBCD: A Voxel-Based Framework for Personalized Dental Crown Design <i>Authors: Linda Wei, Chang Liu, Wenran Zhang, Zengji Zhang, Shaoting Zhang, Hongsheng Li</i> <i>Presenter: Linda Wei, The Chinese University of Hong Kong, Hong Kong, SAR</i>
B327 (Thu-AM)	A Uniform Multi-mode Fused Framework for Velocity Field Estimation in Ultrasound Imaging <i>Authors: Hailong Li, Liansheng Wang, Yinran Chen</i> <i>Presenter: Hailong Li, Xiamen University, China</i>
B332 (Thu-AM)	VoxelOpt: Voxel-Adaptive Message Passing for Discrete Optimization in Deformable Abdominal CT Registration <i>Authors: Hang Zhang, Yuxi Zhang, Jiazheng Wang, Xiang Chen, Renjiu Hu, Xin Tian, Gaolei Li, Min Liu</i> <i>Presenter: Hang Zhang, Cornell University, United States</i>
B335 (Thu-AM)	Coronary Artery Calcification segmentation by using cross-frequency conditioner and geometric priors Learning <i>Authors: Weili Jiang, Yiming Li, Gadeng Luosang, Gang Peng, Yong Peng, Yijun Yao, Zhang Yi, Jianyong Wang, Mao Chen</i> <i>Presenter: Weili Jiang, Southwest Jiaotong University, China</i>
C2 (Thu-AM)	Sequence-Independent Continual Test-Time Adaptation with Mixture of Incremental Experts for Cross-Domain Segmentation <i>Authors: Dunyuan Xu, Yuchen Yuan, Donghao Zhou, Xikai Yang, Jingyang Zhang, Jinpeng Li, Pheng-Ann Heng</i> <i>Presenter: Dunyuan Xu, The Chinese University of Hong Kong, Hong Kong SAR</i>
C7 (Thu-AM)	MixStyleFlow: Domain Generalization in Medical Image Segmentation using Normalizing Flows <i>Authors: Reza Safdari, Mohammad-Ali Nikouei Mahani, Mohamad Koohi-Moghadam, Kyongtae Tyler Bae</i> <i>Presenter: Mohamad Koohi-Moghadam, The University of Hong Kong, Hong Kong SAR</i>
C12 (Thu-AM)	SUGFW: A SAM-based Uncertainty-guided Feature Weighting Framework for Cold Start Active Learning <i>Authors: Xiaochuan Ma, Jia Fu, Lanfeng Zhong, Ning Zhu, Guotai Wang</i> <i>Presenter: Xiaochuan Ma, University of Electronic Science and Technology of China, China</i>
C17 (Thu-AM)	From Generalist to Specialist: Distilling a Mixture of Foundation Models for Domain-specific Medical Image Segmentation <i>Authors: Qing Li, Yizhe Zhang, Shengxiao Yang, Qirong Li, Zian Wang, Junhong Liu, Haoyang Zhang, Shuo Wang, Chengyan Wang</i> <i>Presenter: Qing Li, Fudan University, China</i>
C22 (Thu-AM)	Minuscule Cell Detection in AS-OCT Images with Progressive Field-of-View Focusing <i>Authors: Boyu Chen, Ameenat Solebo, Daqian Shi, Jinge Wu, Paul Taylor</i> <i>Presenter: Boyu Chen, University College London, United Kingdom</i>
C27 (Thu-AM)	Towards Accurate Tumor Budding Detection: A Benchmark Dataset and A Detection Approach Based on Implicit Annotation Standardization and Positive-Negative Feature Coupling <i>Authors: Rui-Qing Sun, Zeng Fan, Boyang Dai, Yiyan Su, Qun Hao, Chuyang Ye, Shaohui Zhang</i> <i>Presenter: Shaohui Zhang, Beijing Institute of Technology, China</i>
C32 (Thu-AM)	MammoTracker: Mask-Guided Lesion Tracking in Temporal Mammograms <i>Authors: Xuan Liu, Yinhao Ren, Marc D. Ryser, Lars J. Grimm, Joseph Y. Lo</i> <i>Presenter: Joseph Lo, Duke University, United States</i>
C37 (Thu-AM)	Segmenting Vessels Encapsulating Tumor Clusters via Fine-Grained Visual Prompt <i>Authors: Jiahui Yu, Tianyu Ma, Shenjian Gu, Yuping Guo, Feng Chen, Xiaoxiao Li, Yingke Xu</i> <i>Presenter: Jiahui Yu, Zhejiang University, Hangzhou</i>

C42 (Thu-AM) Paper Highlight	Automated Characterization of Myocardial Scar Topological Patterns for Ventricular Tachycardia Screening <i>Authors: Xicheng Sheng, Yang Zhang, Lei Li, Bailiang Chen, Freddy Odille, Xiahai Zhuang</i> <i>Presenter: Lei Li, National University of Singapore, Singapore</i>
C47 (Thu-AM) Paper Highlight	HybridMamba: A Dual-domain Mamba for 3D Medical Image Segmentation <i>Authors: Weitong Wu, Zhaohu Xing, Jing Gong, Qin Peng, Lei Zhu</i> <i>Presenter: Weitong Wu, The Hong Kong University of Science and Technology (Guangzhou), China</i>
C52 (Thu-AM) Paper Highlight	Fit Pixels, Get Labels: Meta-Learned Implicit Networks for Image Segmentation <i>Authors: Kushal Vyas, Ashok Veeraraghavan, Guha Balakrishnan</i> <i>Presenter: Kushal Vyas, Rice University, United States</i>
C57 (Thu-AM) Paper Highlight	Abnormality-Driven Representation Learning for Radiology Imaging <i>Authors: Marta Ligeró, Tim Lenz, Georg Wölflein, Omar S. M. El Nahhas, Daniel Truhn, Jakob Nikolas Kather</i> <i>Presenter: Tim Lenz, EKfZ for Digital Health, TU Dresden, Germany</i>
C62 (Thu-AM) Paper Highlight	MARSeg: Enhancing Medical Image Segmentation with MAR and Adaptive Feature Fusion <i>Authors: Jeonghyun Hwang, Seungyeon Rhee, Minjeong Kim, Thanaporn Viriyasaranon, Jang-Hwan Choi</i> <i>Presenters: Seungyeon Rhee and Minjeong Kim, Ewha Womans University, Republic of Korea</i>
C67 (Thu-AM) Paper Highlight	PerioDet: Large-Scale Panoramic Radiograph Benchmark for Clinical-Oriented Apical Periodontitis Detection <i>Authors: Xiaocheng Fang, Jieyi Cai, Huanyu Liu, Chengju Zhou, Minhua Lu, Bingzhi Chen</i> <i>Presenter: Bingzhi Chen, Beijing Institute of Technology, China</i>
C72 (Thu-AM) Paper Highlight	Guiding Registration with Emergent Similarity from Pre-Trained Diffusion Models <i>Authors: Nurislam Tursynbek, Hastings Greer, Başar Demir, Marc Niethammer</i> <i>Presenter: Marc Niethammer, University of California San Diego, United States</i>
C77 (Thu-AM) Paper Highlight	DiffAtlas: GenAI-fying Atlas Segmentation via Image-Mask Diffusion <i>Authors: Hantao Zhang, Yuhe Liu, Jiancheng Yang, Weidong Guo, Xinyuan Wang, Pascal Fua</i> <i>Presenter: Hantao Zhang, The École Polytechnique Fédérale de Lausanne, Switzerland</i>
C82 (Thu-AM)	Spatiotemporal-Sensitive Network for Microvascular Obstruction Segmentation from Cine Cardiac Magnetic Resonance <i>Authors: Yang Yu, Christopher Kok, Jiahao Wang, Jun Cheng, Shuang Leng, Ru San Tan, Liang Zhong, Xulei Yang</i> <i>Presenter: Jun Cheng, Institute for Infocomm Research (I2R), Agency for Science, Technology and Research (A*STAR), Singapore</i>
C87 (Thu-AM)	Pairwise-Constrained Implicit Functions for 3D Human Heart Modeling <i>Authors: Hieu Le, Jingyi Xu, Nicolas Talabot, Jiancheng Yang, Pascal Fua</i> <i>Presenter: Nicolas Talabot, The École Polytechnique Fédérale de Lausanne, Switzerland</i>
C92 (Thu-AM)	Learning with Explicit Topological Priors for Chest X-ray Rib Segmentation <i>Authors: Xiaowei Zhao, Chenglong Li, Jin Tang, Chuanfu Li</i> <i>Presenter: Xiaowei Zhao, Anhui University, China</i>
C97 (Thu-AM)	EFFDNet: A Scribble-Supervised Medical Image Segmentation Method with Enhanced Foreground Feature Discrimination <i>Authors: Jinhua Liu, Shu Yun Tan, Xulei Yang, Yanwu Xu, Si Yong Yeo</i> <i>Presenter: Jinhua Liu, Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore</i>
C102 (Thu-AM)	MAST-Pro: Dynamic Mixture-of-Experts for Adaptive Segmentation of Pan-Tumors with Knowledge-Driven Prompts <i>Authors: Runqi Meng, Sifan Song, Pengfei Jin, Lin Teng, Yulin Wang, Yiqun Sun, Ling Chen, Yujin Oh, Xiang Li, Quanzheng Li, Ning Guo, Dinggang Shen</i> <i>Presenter: Runqi Meng, ShanghaiTech University, China</i>
C107 (Thu-AM)	TransSino: Prior Sinogram Pattern-Based Transformer for Limited-Angle CT Image Segmentation <i>Authors: Jae Hyun Yoon, Yeong Jong Lee, Seok Bong Yoo</i> <i>Presenter: Yeong Jong Lee, Chonnam National University, Republic of Korea</i>
C112 (Thu-AM)	MatchGen: Detecting Medical Abnormal Region by Generating Matched Normal Regions <i>Authors: Xinyu Ma, Jinhui Ma, Shiqi He, Xin Che, Hon Yiu So, Lingyang Chu</i> <i>Presenter: Xinyu Ma, McMaster University, Canada</i>

C117 (Thu-AM)	SpurBreast: A Curated Dataset for Investigating Spurious Correlations in Real-world Breast MRI Classification <i>Authors: Jong Bum Won, Wesley De Neve, Joris Vankerschaver, Utku Ozbulak</i> <i>Presenter: Utku Ozbulak, Ghent University Global Campus, Republic of Korea</i>
C122 (Thu-AM)	No More Sliding Window: Efficient 3D Medical Image Segmentation with Differentiable Top-K Patch Sampling <i>Authors: Young Seok Jeon, Hongfei Yang, Huazhu Fu, Yeshe Kway, Mengling Feng</i> <i>Presenter: Young Seok Jeon, Emory University, United States</i>
C127 (Thu-AM)	Vascular Photoacoustic Volume Registration via 2D Feature Matching with Reverse Mapping Based on Maximum Intensity Projection <i>Authors: Junda Liao, Chu Zhou, Yuta Asano, Yushi Suzuki, Ryoma Bise, Nobuaki Imanishi, Kazuo Kishi, Sadakazu Aiso, Imari Sato</i> <i>Presenter: Junda Liao, The University of Tokyo; National Institute of Informatics, Japan</i>
C132 (Thu-AM)	BraTS-UMamba: Adaptive Mamba UNet with Dual-Band Frequency based Feature Enhancement for Brain Tumor Segmentation <i>Authors: Haoran Yao, Hao Xiong, Dong Liu, Hualei Shen, Shlomo Berkovsky</i> <i>Presenter: Haoran Yao, Henan Normal University, China</i>
C137 (Thu-AM)	RefineSeg: Dual Coarse-to-Fine Learning for Medical Image Segmentation <i>Authors: Anghong Du, Nay Aung, Theodoros N. Arvanitis, Stefan K. Piechnik, Joao A. C. Lima, Steffen E. Petersen, Le Zhang</i> <i>Presenter: Anghong Du, University of Birmingham, United Kingdom</i>
C142 (Thu-AM)	AdvMIM: Adversarial Masked Image Modeling for Semi-Supervised Medical Image Segmentation <i>Authors: Lei Zhu, Jun Zhou, Rick Siow Mong Goh, Yong Liu</i> <i>Presenter: Huazhu Fu, Institute of High Performance Computing (IHPC), Agency for Science, Technology and Research (A*STAR), Singapore</i>
C147 (Thu-AM)	Improving Medical Image Segmentation with Implicit Representation and Noisy Label Robustness <i>Authors: Suruchi Kumari, Harshdeep Singh, Pravendra Singh</i> <i>Presenter: Suruchi Kumari, Indian Institute of Technology Roorkee, India</i>
C152 (Thu-AM)	New Multiple Sclerosis Lesion Segmentation via Calibrated Inter-patch Blending <i>Authors: Jin Ye, Son Duy Dao, Yicheng Wu, Yasmeen George, Thanh Nguyen-Duc, Daniel F. Schmidt, Hengcan Shi, Winston Chong, Jianfei Cai</i> <i>Presenter: Jin Ye, Monash University, Australia</i>
C157 (Thu-AM)	U-Net Transplant: The Role of Pre-training for Model Merging in 3D Medical Segmentation <i>Authors: Luca Lumetti, Giacomo Capitani, Elisa Ficarra, Simone Calderara, Costantino Grana, Angelo Porrello, Federico Bolelli</i> <i>Presenter: Luca Lumetti, University of Modena and Reggio Emilia, Italy</i>
C162 (Thu-AM)	A Boundary-aware Cold-Diffusion Model for Electron Microscopy Segmentation <i>Authors: Muge Qi, Ruohua Shi, Yu Cai, Liuyuan He, Wenyao Wang, Lei Ma</i> <i>Presenter: Muge Qi, Peking University, China</i>
C167 (Thu-AM)	RSAD: Region-Specific Anomaly Detection in fMRI for Disease Diagnosis <i>Authors: Yusong Sun, Dongdong Chen, Mengjun Liu, Zhenrong Shen, Zhiyun Song, Yuqi Hu, Manman Fei, Xu Han, Zelin Liu, Xingkai Fang, Lu Bai, Lichi Zhang</i> <i>Presenter: Yusong Sun, Shanghai Jiao Tong University, China</i>
C172 (Thu-AM)	A Virtual Domain Collaborative Learning Framework for Semi-supervised Microscopic Hyperspectral Image Segmentation <i>Authors: Geng Qin, Huan Liu, Wei Li, Haihao Zhang, Yuxing Guo</i> <i>Presenter: Geng Qin, Beijing Institute of Technology, China</i>
C177 (Thu-AM)	Compact Training-free NAS with Alternating Evolution Game for Medical Image Segmentation <i>Authors: Xiaoxue Sun, Hongpeng Wang, Pei-Cheng Song</i> <i>Presenter: Xiaoxue Sun, Nankai University, China</i>
C182 (Thu-AM)	UniOCTSeg: Towards Universal OCT Retinal Layer Segmentation via Hierarchical Prompting and Progressive Consistency Learning <i>Authors: Jian Zhong, Li Lin, Chaoran Miao, Kenneth K. Y. Wong, Xiaoying Tang</i> <i>Presenter: Jian Zhong, Southern University of Science and Technology, China</i>

C187 (Thu-AM)	Spherical Diffusion Process for Score-Guided Cortical Correspondence via Spectral Attention <i>Authors: Seungeun Lee, Sergey Pyatkovskiy, Jaejun Yoo, Ilwoo Lyu</i> <i>Presenter: Seungeun Lee, Klleon, Republic of Korea</i>
C192 (Thu-AM)	EUReg: End-to-end Framework for Efficient 2D-3D Ultrasound Registration <i>Authors: Haiqiao Wang, Yi Wang</i> <i>Presenter: Haiqiao Wang, Shenzhen University, China</i>
C197 (Thu-AM)	MoE-SAM: Enhancing SAM for Medical Image Segmentation with Mixture-of-Experts <i>Authors: Ruocheng Li, Lei Wu, Jingjun Gu, Qi Xu, Wanyi Chen, Xiaoxu Cai, Jiajun Bu</i> <i>Presenter: Ruocheng Li, Zhejiang University, China</i>
C202 (Thu-AM)	M3HL: Mutual Mask Mix with High-Low Level Feature Consistency for Semi-Supervised Medical Image Segmentation <i>Authors: Yajun Liu, Zenghui Zhang, Jiang Yue, Weiwei Guo, Dongying Li</i> <i>Presenter: Yajun Liu, Shanghai Jiao Tong University, China</i>
C207 (Thu-AM)	Leveraging Semantic Asymmetry for Accurate Gross Tumor Volume Segmentation of Nasopharyngeal Carcinoma in Planning CT <i>Authors: Zi Li, Ying Chen, Zeli Chen, Yanzhou Su, Tai Ma, Tony C. W. Mok, Yan-Jie Zhou, Yunhao Bai, Zhilin Zheng, Le Lu, Yirui Wang, Jia Ge, Senxiang Yan, Xianghua Ye, Dakai Jin</i> <i>Presenter: Zeli Chen, DAMO Academy, Alibaba Group, China</i>
C212 (Thu-AM)	SlimFormer-3D: A Layer-Adaptive Lightweight Transformer for Efficient 3D Medical Image Segmentation <i>Authors: Yang Hong, Lei Zhang, Xujiong Ye, Jianqing Mo</i> <i>Presenter: Yang Hong, Guangdong University of Technology, China</i>
C217 (Thu-AM)	BenchReAD: A systematic benchmark for retinal anomaly detection <i>Authors: Chenyu Lian, Hong-Yu Zhou, Zhanli Hu, Jing Qin</i> <i>Presenter: Chenyu Lian, The Hong Kong Polytechnic University, China</i>
C222 (Thu-AM)	Improved Baselines with Synchronized Encoding for Universal Medical Image Segmentation <i>Authors: Sihan Yang, Jiadong Feng, Xuande Mi, Haixia Bi, Hai Zhang, Jian Sun</i> <i>Presenter: Sihan Yang, Xi'an Jiaotong University, China</i>
C227 (Thu-AM)	New Multimodal Similarity Measure for Image Registration via Modeling Local Functional Dependence with Linear Combination of Learned Basis Functions <i>Authors: Joel Honkamaa, Pekka Marttinen</i> <i>Presenter: Joel Honkamaa, Aalto University, Finland</i>
C232 (Thu-AM)	Towards Robust Retinal Vessel Segmentation via Reducing Open-set Label Noises from SAM-generated Masks <i>Authors: Mingqing Zhang, Mengxian He, Wu Yuan</i> <i>Presenter: Mingqing Zhang, The Chinese University of Hong Kong, China</i>
C237 (Thu-AM)	Spline refinement with differentiable rendering <i>Authors: Frans Zdyb, Albert Alonso, Julius B. Kirkegaard</i> <i>Presenter: Frans Zdyb, University of Copenhagen, Denmark</i>
C242 (Thu-AM)	GEPAR3D: Geometry Prior-Assisted Learning for 3D Tooth Segmentation <i>Authors: Tomasz Szczepański, Szymon Płotka, Michal K. Grzeszczyk, Arleta Adamowicz, Piotr Fudalej, Przemysław Korzeniowski, Tomasz Trzciński, Arkadiusz Sitek</i> <i>Presenter: Michal K. Grzeszczyk, Sano Centre for Computational Personalized Medicine, Poland</i>
C247 (Thu-AM)	Autoregressive Medical Image Segmentation via Next-Scale Mask Prediction <i>Authors: Tao Chen, Chenhui Wang, Zhihao Chen, Hongming Shan</i> <i>Presenter: Tao Chen, Fudan University, China</i>
C252 (Thu-AM)	UniSegDiff: Boosting Unified Lesion Segmentation via a Staged Diffusion Model <i>Authors: Yilong Hu, Shijie Chang, Lihe Zhang, Feng Tian, Weibing Sun, Huchuan Lu</i> <i>Presenter: Yilong Hu, Dalian University of Technology, China</i>
C257 (Thu-AM)	Spatial-Temporal Memory Filtering SAM for Lesion Segmentation in Breast Ultrasound Videos <i>Authors: Zhengzheng Tu, Liang Zong, Bo Jiang, Haowen Wang, Kunpeng Wang, Chaoxue Zhang</i> <i>Presenter: Liang Zong, Anhui University, China</i>
C262 (Thu-AM)	Tumor Segmentation with Heterogeneity Clustering in Non-contrast Breast MRI <i>Authors: Xinyu Xie, Luyi Han, Yonghao Li, Yaofei Duan, Yue Sun, Muzhen He, Tao Tan, Dinggang Shen</i> <i>Presenter: Xinyu Xie, Macao Polytechnic University, China</i>

C267 (Thu-AM)	Hybrid Local-Window-Attention–Assisted U-Net Model for Multimodal Medical-Image Segmentation <i>Authors: Jiwon Kim, Seyong Jin, Yeonwoo Noh, Hyeonjoon Moon, Minwoo Lee, Wonjong Noh</i> <i>Presenter: Jiwon Kim, Sejong University, Republic of Korea</i>
C272 (Thu-AM)	VesselSDF: Distance Field Priors for Vascular Network Reconstruction <i>Authors: Salvatore Esposito, Daniel Rebain, Arno Onken, Changjian Li, Oisin Mac Aodha</i> <i>Presenter: Salvatore Esposito, University of Edinburgh, United Kingdom</i>
C277 (Thu-AM)	MSWAL: 3D Multi-class Segmentation of Whole Abdominal Lesions Dataset <i>Authors: Zhaodong Wu, Qiaochu Zhao, Ming Hu, Yulong Li, Haochen Xue, Zhengyong Jiang, Angelos Stefanidis, Qiufeng Wang, Imran Razzak, Zongyuan Ge, Junjun He, Yu Qiao, Zhong Zheng, Feilong Tang, Kang Dang, Jionglong Su</i> <i>Presenter: Zhaodong Wu, Xi’an Jiaotong-Liverpool University, China</i>
C282 (Thu-AM)	Phenotype Representation and Analysis via Discriminative Atypicality (PRADA) to capture the structural heterogeneity of Autism Spectrum Disorder <i>Authors: Emre Onemli, Ahsan Mahmood, Omar Azrak, Dea Garic, Meghan R. Swanson, Rebecca Grzadzinski, Kattia Mata, Mark D. Shen, Jessica B. Girault, Tanya St. John, Juhi Pandey, Lonnie Zwaigenbaum, Annette M. Estes, Audrey M. Shen, Stephen R. Dager, Robert T. Schultz, Kelly N. Botteron, Alan C. Evans, Jed T. Elison, Essa Yacoub, Sun Hyung Kim, Robert C. McKinstry, Guido Gerig, Heather C. Hazlett, Natasha Marrus, Joseph Piven, John R. Pruett Jr., Martin Styner</i> <i>Presenter: Martin Styner, University of North Carolina, United States</i>
C287 (Thu-AM)	StyleGAN-based Brain MRI Anomaly Detection via Latent Code Retrieval and Partial Swap <i>Authors: Jie Wei, Xiaofei Hu, Shaoting Zhang, Guotai Wang</i> <i>Presenter: Guotai Wang, University of Electronic Science and Technology of China, China</i>
C292 (Thu-AM)	MultiTransAD: Cross-Sequence Translation-Driven Anomaly Detection in Multi-Sequence Brain MRI <i>Authors: Qi Zhang, Yibo Hu, Jianqi Sun</i> <i>Presenter: Qi Zhang, Shanghai Jiaotong University, China</i>
C297 (Thu-AM)	CSAL-3D: Cold-start Active Learning for 3D Medical Image Segmentation via SSL-driven Uncertainty-Reinforced Diversity Sampling <i>Authors: Ning Zhu, Ping Ye, Lanfeng Zhong, Qiang Yue, Shaoting Zhang, Guotai Wang</i> <i>Presenter: Ning Zhu, University of Electronic Science and Technology of China, China</i>
C302 (Thu-AM)	Medical-Knowledge Driven Multiple Instance Learning for Classifying Severe Abdominal Anomalies on Prenatal Ultrasound <i>Authors: Huanwen Liang, Jingxian Xu, Yuanji Zhang, Yuhao Huang, Yuhan Zhang, Xin Yang, Ran Li, Xuedong Deng, Yanjun Liu, Guowei Tao, Yun Wu, Sheng Zhao, Xinru Gao, Dong Ni</i> <i>Presenter: Huanwen Liang, Shenzhen University, China</i>
C307 (Thu-AM)	AffinityUMamba: Uncertainty-Aware Medical Image Segmentation via Probabilistic Weak Supervision Beyond Gold-Standard Annotations <i>Authors: Yukun Zhang, Guisheng Wang, William Henry Nailon, Kun Cheng</i> <i>Presenter: Yukun Zhang, Beijing University of Posts and Telecommunications, China</i>
C312 (Thu-AM)	Anomaly Detection by Clustering DINO Embeddings using a Dirichlet Process Mixture <i>Authors: Nico Schulthess, Ender Konukoglu</i> <i>Presenter: Nico Schulthess, ETH Zürich, Switzerland</i>
C317 (Thu-AM)	CS²C: Collaborative Spatial and Spectral Neural Clustering for Organelle Segmentation from Volumetric Electron Microscopy <i>Authors: Jimao Jiang, Yuru Pei</i> <i>Presenter: Jimao Jiang, Peking University, China</i>
C322 (Thu-AM)	SMF-Net: Unlocking Multimodal Insights for Enhanced Stroke Lesion Segmentation <i>Authors: Meklit Atlaw, Geng Chen, Haotian Jiang, Xuyun Wen, Hengfei Cui, Yong Xia</i> <i>Presenter: Meklit Atlaw, Northwestern Polytechnical University, China</i>
C327 (Thu-AM)	Bridging Classical and Learning-based Iterative Registration through Deep Equilibrium Models <i>Authors: Yi Zhang, Yidong Zhao, Qian Tao</i> <i>Presenter: Yi Zhang, Delft University of Technology, The Netherlands</i>
C332 (Thu-AM)	GLM-SFNet: Global-Local Vision-Mamba with Semantic Fusion for Medical Image Segmentation <i>Authors: Jiahui Chen, Fei Qi, Chengyuan Chang, Qinjie Hu, Kaiwen Fu, Xiaotian Wang, Kun Liu</i> <i>Presenter: Jiahui Chen, Xidian University, China</i>

Poster Session 3: Prediction / Generalizability and Adaptation / Reconstruction and Synthesis in Ultrasound, Microscopy, and Photography
Thursday, September 25, 2025, 15:30 – 17:00
Poster Hall (DCC 2)

A3 (Thu-PM)	DPGS-Net: Dual Prior-Guided Cross-Domain Adaptive Framework for Ultrasound Image Segmentation <i>Authors: Weijie Zhang, Lingfeng Xie, Kun Zeng, Xiaonan Luo, Yongyi Gong</i> <i>Presenter: Weijie Zhang, Guangdong University of Foreign Studies, China</i>
A8 (Thu-PM)	Distilling foundation models for robust and efficient models in digital pathology <i>Authors: Alexandre Filiot, Nicolas Dop, Oussama Tchita, Auriane Riou, Rémy Dubois, Thomas Peeters, Daria Valter, Marin Scalbert, Charlie Saillard, Geneviève Robin, Antoine Olivier</i> <i>Presenter: Alexandre Filiot, Owkin, France</i>
A13 (Thu-PM)	PSAT: Pediatric Segmentation Approaches via Adult Augmentations and Transfer Learning <i>Authors: Tristan Kirscher, Sylvain Faisan, Xavier Coubez, Loris Barrier, Philippe Meyer</i> <i>Presenter: Tristan Kirscher, ICUBE IMAGeS - ICANS, France</i>
A18 (Thu-PM)	PathoCellBench: A Comprehensive Benchmark for Cell Phenotyping <i>Authors: Jérôme Lüscher, Nora Koreuber, Jannik Franzen, Fabian H. Reith, Claudia Winklmayr, Elias Baumann, Christian M. Schürch, Dagmar Kainmüller, Josef Lorenz Rumberger</i> <i>Presenter: Claudia Winklmayr, Max Delbrück Center, Germany</i>
A23 (Thu-PM)	General Methods Make Great Domain-specific Foundation Models: A Case-study on Fetal Ultrasound <i>Authors: Jakob Ambsdorf, Asbjørn Munk, Sebastian Llambias, Anders N. Christensen, Kamil Mikolaj, Randall Balestrieri, Martin G. Tolsgaard, Aasa Feragen, Mads Nielsen</i> <i>Presenter: Jakob Ambsdorf, University of Copenhagen, Denmark</i>
A28 (Thu-PM)	OralSAM: One-shot Segmentation for Intraoral Ultrasound Videos with Adaptive Feature Correlation and Self-prompting Strategy <i>Authors: Logiraj Kumaralingam, Anparasy Sivaanpu, Manh-Hai Hoang, Javaneh Alavi, Kim-Cuong T. Nguyen, Kumaradevan Punithakumar, Edmond H. M. Lou, Paul Major, Lawrence H. Le</i> <i>Presenter: Anparasy Sivaanpu, University of Alberta, Canada</i>
A33 (Thu-PM)	Automatic dataset shift identification to support safe deployment of medical imaging AI <i>Authors: Mélanie Roschewitz, Raghav Mehta, Charles Jones, Ben Glocker</i> <i>Presenter: Ben Glocker, Imperial College London, United Kingdom</i>
A38 (Thu-PM) Paper Highlight	Adaptive Stain Normalization for Cross-Domain Medical Histology <i>Authors: Tianyue Xu, Yanlin Wu, Abhai K. Tripathi, Matthew M. Ippolito, Benjamin D. Haeffele</i> <i>Presenter: Yanlin Wu, Johns Hopkins University, United States</i>
A43 (Thu-PM) Paper Highlight	Physics-guided deep image prior network for general zero-shot stain deconvolution <i>Authors: Jianan Chen, Lydia Y. Liu, Wenchao Han, Alison Cheung, Hubert Tsui, Anne L. Martel</i> <i>Presenter: Jianan Chen, University College London, United Kingdom</i>
A48 (Thu-PM)	Regularized Low-Rank Adaptation for Few-Shot Organ Segmentation <i>Authors: Ghassen Baklouti, Julio Silva-Rodríguez, Jose Dolz, Houda Bahig, Ismail Ben Ayed</i> <i>Presenter: Ghassen Baklouti, ÉTS Montréal & Centre de Recherche du Centre Hospitalier de l'Université de Montréal, Canada</i>
A53 (Thu-PM)	Self-supervised Normality Learning and Divergence Vector-guided Model Merging for Zero-shot Congenital Heart Disease Detection in Fetal Ultrasound Videos <i>Authors: Pramit Saha, Divyanshu Mishra, Netzahualcoyotl Hernandez-Cruz, Olga Patey, Aris T. Papageorghiou, Yuki M. Asano, J. Alison Noble</i> <i>Presenter: Divyanshu Mishra, University of Oxford, United Kingdom</i>
A58 (Thu-PM)	Solving Medical Multi-Label Domain Adaptation via Wasserstein Adversarial Learning with Class-Level Alignment <i>Authors: Wenjie Liu, Fuyou Miao, Xu Wang</i> <i>Presenter: Wenjie Liu, University of Science and Technology of China, China</i>
A63 (Thu-PM)	Domain-Adaptive Diagnosis of Lewy Body Disease with Transferability Aware Transformer <i>Authors: Xiaowei Yu, Jing Zhang, Tong Chen, Yan Zhuang, Minheng Chen, Chao Cao, Yanjun Lyu, Lu Zhang, Li Su, Tianming Liu, Dajiang Zhu</i> <i>Presenter: Tong Chen, University of Texas at Arlington, United States</i>

A68 (Thu-PM)	AEM: Attention Entropy Maximization for Multiple Instance Learning based Whole Slide Image Classification <i>Authors: Yunlong Zhang, Honglin Li, Yuxuan Sun, Zhongyi Shui, Jingxiong Li, Chenglu Zhu, Lin Yang</i> <i>Presenter: Yunlong Zhang, Westlake University, China</i>
A73 (Thu-PM)	Contour Makes It Stronger: Cross-Domain Cephalometric Landmark Detection Based on Contour Priors <i>Authors: Xinyue Liang, Runnan Chen, Guangshun Wei, Shaojie Zhuang, Yuanfeng Zhou</i> <i>Presenter: Yuanfeng Zhou, Shandong University, China</i>
A78 (Thu-PM) Paper Highlight	Deep Association Multimodal Learning for Zero-shot Spatial Transcriptomics Prediction <i>Authors: Yijing Zhou, Yadong Lu, Qingli Li, Xinxing Li, Yan Wang</i> <i>Presenter: Yijing Zhou, East China Normal University, China</i>
A83 (Thu-PM)	Pathology Image Compression with Pre-trained Autoencoders <i>Authors: Srikar Yellapragada, Alexandros Graikos, Kostas Triaridis, Zilinghan Li, Tarak Nath Nandi, Ravi K Madduri, Prateek Prasanna, Joel Saltz, Dimitris Samaras</i> <i>Presenter: Srikar Yellapragada, Stony Brook University, United States</i>
A88 (Thu-PM)	CLIMD: A Curriculum Learning Framework for Imbalanced Multimodal Diagnosis <i>Authors: Kai Han, Chongwen Lyu, Lele Ma, Chengxuan Qian, Siqi Ma, Zheng Pang, Jun Chen, Zhe Liu</i> <i>Presenter: Kai Han, Jiangsu University, China</i>
A93 (Thu-PM)	Regression-assisted Classification for CT-based Portal Hypertension Diagnosis <i>Authors: Wuque Cai, Jiayi He, Xu Guo, Hongze Sun, Huan Tong, Bo Wei, Hao Wu, Dezhong Yao, Daqing Guo</i> <i>Presenter: Jiayi He, University of Electronic Science and Technology of China, China</i>
A98 (Thu-PM)	MIBF-Net: Multi-modal Information Balanced Fusion Network for Clinical Diagnosis via Patient Narratives and Lesion Image <i>Authors: Zixuan Tang, Bai Sun, Shidan He, Yuan Hong, Dongdong Yu, Zhenzhong Liu, Mengtang Li, Bin Chen, Shen Zhao</i> <i>Presenter: Zixuan Tang, Sun Yat-Sen University, China</i>
A103 (Thu-PM)	Risk Estimation of Knee Osteoarthritis Progression via Predictive Multi-task Modelling from Efficient Diffusion Model using X-ray Images <i>Authors: David Butler, Adrian Hilton, Gustavo Carneiro</i> <i>Presenter: David Butler, University of Surrey, United Kingdom</i>
A108 (Thu-PM)	Unraveling Brainstem Deformations in Joubert Syndrome: A Statistical Shape Analysis of MRI-Derived Structures <i>Authors: Francesca Maccarone, Giorgio Longari, Filippo Arrigoni, Denis Peruzzo, Simone Melzi</i> <i>Presenter: Francesca Maccarone, University of Milano-Bicocca, Italy</i>
A113 (Thu-PM)	Time-Lapse Video-Based Embryo Grading via Complementary Spatial-Temporal Pattern Mining <i>Authors: Yong Sun, Yipeng Wang, Junyu Shi, Zhiyuan Zhang, Yanmei Xiao, Lei Zhu, Manxi Jiang, Qiang Nie</i> <i>Presenter: Yong Sun, The Hong Kong University of Science and Technology (Guangzhou), China</i>
A118 (Thu-PM) Paper Highlight	FoundBioNet: A Foundation-Based Model for IDH Genotyping of Glioma from Multi-Parametric MRI <i>Authors: Somayeh Farahani, Marjaneh Hejazi, Antonio Di Ieva, Sidong Liu</i> <i>Presenter: Somayeh Farahani, Macquarie University, Australia</i>
A123 (Thu-PM) Paper Highlight	P2INR-FWI: an Implicit Neural Representation Method for Speed of Sound Image Reconstruction in Ultrasound Computed Tomography <i>Authors: Zesong Wang, Weicheng Yan, Zhaohui Liu, Ming Yuchi, Wu Qiu</i> <i>Presenter: Zesong Wang, Huazhong University of Science and Technology, China</i>
A128 (Thu-PM)	All-in-One Medical Image Restoration with Latent Diffusion-Enhanced Vector-Quantized Codebook Prior <i>Authors: Haowei Chen, Zhiwen Yang, Haotian Hou, Hui Zhang, Bingzheng Wei, Gang Zhou, Yan Xu</i> <i>Presenter: Haowei Chen, Beihang University, China</i>
A133 (Thu-PM) Paper Highlight	SABPI-Net: A Novel Structure-Aware Network for Accurate and Domain-Invariant Retinopathy of Prematurity Diagnosis <i>Authors: Shaobin Chen, Xinyu Zhao, Huazhu Fu, Tao Tan, Jiaju Huang, Xiangyu Xiong, Zhenquan Wu, Behdad Dashtbozorg, Baiying Lei, Guoming Zhang, Yue Sun</i> <i>Presenter: Jiaju Huang, Macao Polytechnic University, China</i>

A138 (Thu-PM)	Aβ-PET Pattern Prediction via Graph Reconstruction-Aware Fusion (GRAF) of Functional and Structural Networks <i>Authors: Haoyue Yuan, Yuxiao Liu, Feihong Liu, Dinggang Shen</i> <i>Presenter: Haoyue Yuan, ShanghaiTech University, China</i>
Paper Highlight	
A143 (Thu-PM)	Focus on Texture: Rethinking Pre-training in Masked Autoencoders for Medical Image Classification <i>Authors: Chetan Madan, Aarjav Satia, Soumen Basu, Pankaj Gupta, Usha Dutta, Chetan Arora</i> <i>Presenter: Chetan Madan, Indian Institute of Technology Delhi, India</i>
A148 (Thu-PM)	BrainAlign: EEG-Vision Alignment via Frequency-Aware Temporal Encoder and Differentiable Cluster Assigner <i>Authors: Enze Shi, Huawen Hu, Qilong Yuan, Kui Zhao, Sigang Yu, Shu Zhang</i> <i>Presenter: Enze Shi, Northwestern Polytechnical University, China</i>
A153 (Thu-PM)	Physiological neural representation for personalised tracer kinetic parameter estimation from dynamic PET <i>Authors: Kartikay Tehlan, Thomas Wendler</i> <i>Presenter: Kartikay Tehlan, Technical University of Munich, Germany</i>
A158 (Thu-PM)	A Non-contrast Head CT Foundation Model for Comprehensive Neuro-Trauma Triage <i>Authors: Youngjin Yoo, Bogdan Georgescu, Yanbo Zhang, Sasa Grbic, Han Liu, Gabriela D. Aldea, Thomas J. Re, Jyotipriya Das, Poikavila Ullaskrishnan, Eva Eibenberger, Andrei Chekkoury, Uttam K. Bodanapally, Savvas Nicolaou, Pina C. Sanelli, Thomas J. Schroepel, Yvonne W. Lui, Eli Gibson</i> <i>Presenter: Youngjin Yoo, Siemens Healthineers, United States</i>
A163 (Thu-PM)	R2B-WFC Ultrasound Reconstruction: Wavelet Fourier Convolution-based Reconstruction from Radio Frequency to Image <i>Authors: Hyunsu Jeong, Chiho Yoon, Minsik Sung, Kiduk Kim, Dougho Park, Chulhong Kim</i> <i>Presenter: Hyunsu Jeong, Pohang University of Science and Technology, Republic of Korea</i>
A168 (Thu-PM)	Revisiting Masked Image Modeling with Standardized Color Space for Domain Generalized Fundus Photography Classification <i>Authors: Eojin Jang, Myeongkyun Kang, Soopil Kim, Min Sagong, Sang Hyun Park</i> <i>Presenter: Soopil Kim, Daegu Gyeongbuk Institute of Science and Technology, Republic of Korea</i>
A173 (Thu-PM)	Out-of-Distribution Nuclei Segmentation in Histology Imaging via Liquid Neural Networks with Modern Hopfield Layer <i>Authors: Bishal Ranjan Swain, Kyung Joo Cheoi, Jaepil Ko</i> <i>Presenter: Bishal Ranjan Swain, Kumoh National Institute of Technology, Republic of Korea</i>
A178 (Thu-PM)	Prototype-Guided and Lightweight Adapters for Inherent Interpretation and Generalisation in Federated Learning <i>Authors: Samuel Ofosu Mensah, Kerol Djoumessi, Philipp Berens</i> <i>Presenter: Samuel Ofosu Mensah, Hertie Institute for AI in Brain Health, Germany</i>
A183 (Thu-PM)	Deep Learning Framework for Managing Inter-Reader Variability in Background Parenchymal Enhancement Classification for Contrast-Enhanced Mammography <i>Authors: Elodie Ripaud, Clément Jailin, Pablo Milioni de Carvalho, Laurence Vancamberg, Isabelle Bloch</i> <i>Presenter: Elodie Ripaud, GE HealthCare, France</i>
Paper Highlight	
A188 (Thu-PM)	Influence of Classification Task and Distribution Shift Type on OOD Detection in Fetal Ultrasound <i>Authors: Chun Kit Wong, Anders N. Christensen, Cosmin I. Bercea, Julia A. Schnabel, Martin G. Tolsgaard, Aasa Feragen</i> <i>Presenter: Chun Kit Wong, Technical University of Denmark, Denmark</i>
A193 (Thu-PM)	PathoPainter: Augmenting Histopathology Segmentation via Tumor-aware Inpainting <i>Authors: Hong Liu, Haosen Yang, Evi M. C. Huijben, Mark Schuiveling, Ruisheng Su, Josien P. W. Pluim, Mitko Veta</i> <i>Presenter: Hong Liu, Eindhoven University of Technology, The Netherlands</i>
A198 (Thu-PM)	Exploring the feasibility of zero-shot super-resolution in preclinical imaging <i>Authors: Omar A. M. Gharib, Samuel W. Remedios, Blake E. Dewey, Jerry L. Prince, Aaron Carass</i> <i>Presenter: Samuel Remedios, Johns Hopkins University, United States</i>
A203 (Thu-PM)	Synthesis of Pathological Dual-Channel Color Doppler Echocardiograms for Equitable Diagnosis of Heart Diseases

Authors: Pooneh Roshanitabrizi, Pengfei Guo, Artur Arturi Aharonyan, Kelsey Brown, Taylor Gloria Broudy, Abhijeet Parida, Austin Tapp, Zhifan Jiang, Alison Tompsett, Joselyn Rwebembera, Emmy Okello, Andrea Beaton, Holger R. Roth, Daguang Xu, Syed Muhammad Anwar, Craig A. Sable, Marius George Linguraru
Presenter: Pooneh Roshanitabrizi, Children’s National Hospital, United States

A208 (Thu-PM)	PD-UniST: Prompt-Driven Universal Model for Unpaired H&E-to-IHC Stain Translation Authors: Chujie Zhang, Yangyang Xie, Yinhao Li, Xiao Liang, Lanfen Lin, Yen-Wei Chen Presenter: Chujie Zhang, Ritsumeikan University, China
A213 (Thu-PM)	Parameter-Efficient 12-Lead ECG Reconstruction from a Single Lead Authors: Junseok Lee, Yeonho Yoo, Jinkyu Kim, Dosun Lim, Gyeongsik Yang, Chuck Yoo Presenter: Junseok Lee, Korea University, Republic of Korea
A218 (Thu-PM)	UltraRay: Introducing Full-Path Ray Tracing in Physics-Based Ultrasound Simulation Authors: Felix Duelmer, Mohammad Farid Azampour, Magdalena Wysocki, Nassir Navab Presenter: Felix Duelmer, Technical University of Munich, Germany
A223 (Thu-PM) Paper Highlight	Lymphoma Prognosis with Lesion-Anatomy Context Fusion and Attention-Based Multi-Lesion Aggregation Authors: Song Zhang, Jiajin Zhang, Liheng Qiu, Wei Liu, Dakai Jin, Le Lu, Shenmiao Yang, Ke Yan Presenter: Ke Yan, DAMO Academy, Alibaba Group, China
A228 (Thu-PM)	Pathology-Informed Latent Diffusion Model for Anomaly Detection in Lymph Node Metastasis Authors: Jiamu Wang, Keunho Byeon, Jinsol Song, Anh Nguyen, Sangjeong Ahn, Sung Hak Lee, Jin Tae Kwak Presenter: Jiamu Wang, Korea University, Republic of Korea
A233 (Thu-PM) Paper Highlight	IMREPET: Implicit Neural Representation for Unsupervised Dynamic PET Reconstruction Authors: Kailong Fan, Yubo Ye, Huafeng Liu, Linwei Wang Presenter: Kailong Fan, Zhejiang University, China
A238 (Thu-PM)	MDAA-Diff: CT-Guided Multi-Dose Adaptive Attention Diffusion Model for PET Denoising Authors: Xiaolong Niu, Zanting Ye, Xu Han, Yanchao Huang, Hao Sun, Hubing Wu, Lijun Lu Presenter: Xiaolong Niu, Southern Medical University, China
A243 (Thu-PM)	ODES: Online Domain Adaptation with Expert Guidance for Medical Image Segmentation Authors: Md Shazid Islam, Sayak Nag, Arindam Dutta, Sk Miraj Ahmed, Fahim Faisal Niloy, Shreyangshu Bera, Amit K. Roy-Chowdhury Presenter: Md Shazid Islam, University of California Riverside, United States
A248 (Thu-PM)	Contrastive Disentanglement Learning Framework for Multi-lead Wearable ECG Denoising Authors: Yue Zhang, Chenyu Zhao, Wen Zhang, Jinliang Wang, Jun Guo, Wei Yang, Qianjin Feng Presenter: Yue Zhang, Southern Medical University, China
A253 (Thu-PM)	Blind Restoration of High-Resolution Ultrasound Video Authors: Chu Chen, Kangning Cui, Pasquale Cascarano, Wei Tang, Elena Loli Piccolomini, Raymond H. Chan Presenter: Chu Chen, City University of Hong Kong, Hong Kong SAR
A258 (Thu-PM) Paper Highlight	Multi-Level Gated U-Net for Denoising TMR Sensor-Based MCG Signals Authors: Zeyu Xing, Hao Li, Hao Dou, Zhong Zheng, Jingguo Dai, Chen Wang, Jian Cui, Xin Zhang, Tianzi Jiang Presenter: Zhong Zheng, Institute of Automation, Chinese Academy of Sciences, China
A263 (Thu-PM)	PD-INR: Prior-Driven Implicit Neural Representations for TOF-PET Reconstruction Authors: Yuxuan Long, Yulin Zhang, Hong Wang, Xiaodong Kuang, Hailiang Huang, Fan Rao, Huafeng Liu, Yefeng Zheng, Wentao Zhu Presenter: Yulin Zhang, Zhejiang University, China
A268 (Thu-PM)	RedDino: A foundation model for red blood cell analysis Authors: Luca Zedda, Andrea Loddo, Cecilia Di Ruberto, Carsten Marr Presenter: Andrea Loddo, Helmholtz Zentrum München, Germany
A273 (Thu-PM) Paper Highlight	Global and Local Vision-Language Alignment for Few-Shot Learning and Few-Shot OOD Detection Authors: Jie Yan, Xiaoyuan Guan, Wei-Shi Zheng, Hao Chen, Ruixuan Wang Presenter: Jie Yan, Sun Yat-sen University, China
A278 (Thu-PM)	RL4Med-DDPO: Reinforcement Learning for Controlled Guidance Towards Diverse Medical Image Generation using Vision-Language Foundation Models

Authors: Parham Saremi, Amar Kumar, Mohamed Mohamed, Zahra TehraniNasab, Tal Arbel
Presenter: Parham Saremi, McGill University, Canada

A283 (Thu-PM)	Language of Stains: Tokenization Enhances Multiplex Immunofluorescence and Histology Image Synthesis Authors: Zachary Sims, Sandhya Govindarajan, Gordon B. Mills, Ece Eksi, Young Hwan Chang Presenter: Zachary Sims, Oregon Health & Science University, United States
A288 (Thu-PM)	Sparse3Diff: A Diffusion Framework for 3D Reconstruction from Sparse 2D Slices in Volumetric Optical Imaging Authors: Hyun Jung Lee, Eunjung Jo, Minjoo Lim, Young-Han Son, Bogyong Kang, Hyeonyeong Nam, Ji-Hoon Jeong, Dong-Hee Shin, Tae-Eui Kam Presenter: Hyun Jung Lee, Korea University, Republic of Korea
A293 (Thu-PM)	Uncertainty-aware Diffusion and Reinforcement Learning for Joint Plane Localization and Anomaly Diagnosis in 3D Ultrasound Authors: Yuhao Huang, Yueyue Xu, Haoran Dou, Jiaxiao Deng, Xin Yang, Hongyu Zheng, Dong Ni Presenter: Yuhao Huang, Shenzhen University, China
A298 (Thu-PM)	SSPNet: Towards Feasible Spatio-Spectral Portraits-Based Deep Learning Framework for Neurodegenerative Disease Multi-Classification Authors: Ho-Jung Kim, Dogeun Park, Jeong-Woo Jang, Young-Gi Ju, Dong-Ok Won Presenter: Dogeun Park, Cerebrovascular Disease Research Center, Hallym University, Republic of Korea
A303 (Thu-PM)	Conservative-Radical Complementary Learning for Class-incremental Medical Image Analysis with Pre-trained Foundation Models Authors: Xinyao Wu, Zhe Xu, Donghuan Lu, Jinghan Sun, Hong Liu, Sadia Shakil, Jiawei Ma, Yefeng Zheng, Raymond Kai-yu Tong Presenters: Xinyao Wu and Zhe Xu, The Chinese University of Hong Kong, Hong Kong SAR
A308 (Thu-PM) Paper Highlight	Predicting Longitudinal Brain Development via Implicit Neural Representations Authors: Maik Dannecker, Daniel Rueckert Presenter: Maik Dannecker, Technical University of Munich, Germany
A313 (Thu-PM)	CXR-CML: Improved zero-shot classification of long-tailed multi-label diseases in Chest X-Rays Authors: Rajesh Madhipati, Sheethal Bhat, Lukas Buess, Andreas Maier Presenter: Rajesh Madhipati, Friedrich-Alexander University Erlangen-Nuremberg, Germany
A318 (Thu-PM)	CXR-TFT: Multi-Modal Temporal Fusion Transformer for Predicting Chest X-ray Trajectories Authors: Mehak Arora, Ayman Ali, Kaiyuan Wu, Carolyn Davis, Takashi Shimazui, Mahmoud Alwakeel, Victor Moas, Philip Yang, Annette Esper, Rishikesan Kamaleswaran Presenter: Mehak Arora, Duke University, United States
A323 (Thu-PM)	RetinaLogos: Fine-Grained Synthesis of High-Resolution Retinal Images Through Captions Authors: Junzhi Ning, Cheng Tang, Kaijing Zhou, Diping Song, Lihao Liu, Ming Hu, Wei Li, Huihui Xu, Yanzhou Su, Tianbin Li, Jiyao Liu, Jin Ye, Sheng Zhang, Yuanfeng Ji, Junjun He Presenter: Junzhi Ning, Shanghai Artificial Intelligence Laboratory, China
A328 (Thu-PM)	ADaptation: Reconstruction-based Unsupervised Active Learning for Breast Ultrasound Diagnosis Authors: Yaofei Duan, Yuhao Huang, Xin Yang, Luyi Han, Xinyu Xie, Zhiyuan Zhu, Ping He, Ka-Hou Chan, Ligang Cui, Sio-Kei Im, Dong Ni, Tao Tan Presenter: Yaofei Duan, Macao Polytechnic University, China
A333 (Thu-PM) Paper Highlight	Bias and Generalizability of Foundation Models across Datasets in Breast Mammography Authors: Elodie Germani, Ilayda Selin-Türk, Fatima Zeineddine, Charbel Mourad, Shadi Albarqouni Presenter: Shadi Albarqouni, University of Bonn, Germany
A338 (Thu-PM)	TAT: Task-Adaptive Transformer for All-in-One Medical Image Restoration Authors: Zhiwen Yang, Jiaju Zhang, Yang Yi, Jian Liang, Bingzheng Wei, Yan Xu Presenter: Zhiwen Yang, Beihang University, China
A343 (Thu-PM)	Controllable Skin Synthesis via Lesion-Focused Vector Autoregression Model Authors: Jiajun Sun, Zhen Yu, Siyuan Yan, Jason J. Ong, Zongyuan Ge, Lei Zhang Presenter: Jiajun Sun, Monash University, Australia
A348 (Thu-PM)	Reconsidering Explicit Longitudinal Mammography Alignment for Enhanced Breast Cancer Risk Prediction Authors: Solveig Thrun, Stine Hansen, Zijun Sun, Nele Blum, Suaiba A. Salahuddin, Kristoffer Wickstrøm, Elisabeth Wetzter, Robert Jenssen, Maik Stille, Michael Kampffmeyer

Presenter: Solveig Thrun, UiT The Arctic University of Norway, Norway

A353 (Thu-PM)	Confidence in Angle Predictions for Clinical Decision Support <i>Authors: Allison Clement, James Willoughby, Irina Voiculescu</i> <i>Presenter: Allison Clement, Oxford University, United Kingdom</i>
A358 (Thu-PM)	Calibration in Multiple Instance Learning: Evaluating Aggregation Methods for Ultrasound-Based Diagnosis <i>Authors: Axel Geysels, Ben Van Calster, Bart De Moor, Wouter Froyman, Dirk Timmerman</i> <i>Presenter: Axel Geysels, KU Leuven, Belgium</i>
A363 (Thu-PM) Paper Highlight	Multi-Modal Progressive Fusion for ASD Screening Using Smartphone Video <i>Authors: Wenqi Zhong, Bohan Li, Chen Xia, Kuan Li, Dingwen Zhang</i> <i>Presenter: Chen Xia, Northwestern Polytechnical University, China</i>
A368 (Thu-PM)	Neuro-AMS: Neuro-informed Age-aware and Medical Knowledge-integrated Strategy for Diagnosis of Multiple Brain Disorders <i>Authors: Zhenguo Zhang, Lin Teng, Nan Zhao, Yuxiao Liu, Zhaoyu Qiu, Zehao Weng, Jinwei Kong, Feng Shi, Dinggang Shen</i> <i>Presenter: Zhenguo Zhang, ShanghaiTech University, China</i>
A375 (Thu-PM) Paper Highlight	Towards Multi-Scenario Generalization: Text-Guided Unified Framework for Low-Dose CT and Total-Body PET Reconstruction <i>Authors: Weitao Wang, Yanyan Huang, Shunjie Dong, Le Xue, Kuangyu Shi, Yu Fu</i> <i>Presenter: Weitao Wang, Lanzhou University, China</i>
B3 (Thu-PM) Paper Highlight	tCURLoRA: Tensor CUR Decomposition Based Low-Rank Parameter Adaptation and Its Application in Medical Image Segmentation <i>Authors: Guanghua He, Wangang Cheng, Hancan Zhu, Xiaohao Cai, Gaohang Yu</i> <i>Presenter: Guanghua He, Shaoxing University, China</i>
B8 (Thu-PM)	Source-Free Domain Adaptation for Cross-Modality Cardiac Image Segmentation with Contrastive Class Relationship Consistency <i>Authors: Ao Ma, Qingpeng Zhu, Jingjing Li, Mads Nielsen, Xu Chen</i> <i>Presenter: Ao Ma, Southwestern University of Finance and Economics, China</i>
B13 (Thu-PM)	MedPro-DG: Domain-Aware Masked Contrastive Prompt Learning of Institution Generalization for Outcome Prediction <i>Authors: Rongfang Wang, JiaSheng Chen, Xinlong Zhang, Jing Wang, Hui Liu, Zhiguo Zhou, Kai Wang</i> <i>Presenter: Rongfang Wang, Xidian University, China</i>
B18 (Thu-PM)	Bio2Vol: Adapting 2D Biomedical Foundation Models for Volumetric Medical Image Segmentation <i>Authors: Jiaxin Zhuang, Linshan Wu, Xuefeng Ni, Xi Wang, Liansheng Wang, Hao Chen</i> <i>Presenter: Jiaxin Zhuang, The Hong Kong University of Science and Technology, Hong Kong SAR</i>
B23 (Thu-PM)	One-shot active learning for vessel segmentation <i>Authors: Daniele Falcetta, Hava Chaptoukaev, Francesco Galati, Maria A. Zuluaga</i> <i>Presenter: Daniele Falcetta, EURECOM, France</i>
B28 (Thu-PM)	MedGCD: Generalized Category Discovery in Medical Imaging <i>Authors: Ankit Das¹, Chandan Gautam², Pritee Agrawal, Feng Yang, Yong Liu, Ramasamy Savitha</i> <i>Presenter: Ramasamy Savitha, Institute for Infocomm Research (I2R), Agency for Science, Technology and Research (A*STAR), Singapore</i>
B33 (Thu-PM)	Improving OCTA Imaging through Cross-Domain Adaptation: A Noise-Guided Framework Using Intralipid-Enhanced Rat Data <i>Authors: Bingyu Yang, Bingyao Tan, Zaiwang Gu, Leopold Schmetterer, Huiqi Li, Jun Cheng</i> <i>Presenter: Jun Cheng, Institute for Infocomm Research (I2R), Agency for Science, Technology and Research (A*STAR), Singapore</i>
B38 (Thu-PM)	CardiacCLIP: Video-based CLIP Adaptation for LVEF Prediction in a Few-shot Manner <i>Authors: Yao Du, Jiarong Guo, Xiaomeng Li</i> <i>Presenter: Yao Du, The Hong Kong University of Science and Technology, Hong Kong SAR</i>
B43 (Thu-PM)	Geometric-Guided Few-Shot Dental Landmark Detection with Human-Centric Foundation Model <i>Authors: Anbang Wang, Marawan Elbatel, Keyuan Liu, Lizhuo Lin, Meng Lan, Yanqi Yang, Xiaomeng Li</i> <i>Presenter: Anbang Wang, The Hong Kong University of Science and Technology, Hong Kong SAR</i>

B48 (Thu-PM)	MOC: Meta-Optimized Classifier for Few-Shot Whole Slide Image Classification <i>Authors: Tianqi Xiang, Yi Li, Qixiang Zhang, Xiaomeng Li</i> <i>Presenter: Tianqi Xiang, The Hong Kong University of Science and Technology, Hong Kong SAR</i>
B53 (Thu-PM)	SPENet: Self-guided Prototype Enhancement Network for Few-shot Medical Image Segmentation <i>Authors: Chao Fan, Xibin Jia, Anqi Xiao, Hongyuan Yu, Zhengnan Yang, Dawei Yang, Hui Xu, Yan Huang, Liang Wang</i> <i>Presenter: Chao Fan, Beijing University of Technology, China</i>
B58 (Thu-PM)	Treat: A Unified Text-guided Conditioned Deep Learning Model for Generalized Radiotherapy Treatment Planning <i>Authors: Sangwook Kim, Yuan Gao, Thomas G. Purdie, Chris McIntosh</i> <i>Presenter: Sangwook Kim, University of Toronto, Canada</i>
B63 (Thu-PM)	EchoingECG: An Electrocardiogram Cross-Modal Model for Echocardiogram Tasks <i>Authors: Yuan Gao, Sangwook Kim, Chris McIntosh</i> <i>Presenter: Yuan Gao, University Health Network, Canada</i>
B68 (Thu-PM)	ConStyX: Content Style Augmentation for Generalizable Medical Image Segmentation <i>Authors: Xi Chen, Zhiqiang Shen, Peng Cao, Jinzhu Yang, Osmar R. Zaiane</i> <i>Presenter: Osmar Zaiane, Northeastern University, China</i>
B73 (Thu-PM) Paper Highlight	Anatomical Structure Few-Shot Detection Utilizing Enhanced Human Anatomy Knowledge in Ultrasound Images <i>Authors: Ying Zhu, Bocheng Liang, Ningshu Li, Lei Zhao, Xi Li, Hao Li, Fengwei Yang, Bin Pu</i> <i>Presenter: Ying Zhu, Yunnan University, China</i>
B78 (Thu-PM)	HyDA: Hypernetworks for Test Time Domain Adaptation in Medical Imaging Analysis <i>Authors: Doron Serebro, Tammy Riklin-Raviv</i> <i>Presenter: Doron Serebro, Ben Gurion University, Israel</i>
B83 (Thu-PM) Paper Highlight	Reverse Imaging for Wide-spectrum Generalization of Cardiac MRI Segmentation <i>Authors: Yidong Zhao, Peter Kellman, Hui Xue, Tongyun Yang, Yi Zhang, Yuchi Han, Orlando Simonetti, Qian Tao</i> <i>Presenter: Yidong Zhao, Delft University of Technology, The Netherlands</i>
B88 (Thu-PM)	Dynamic Gradient Sparsification Training for Few-Shot Fine-tuning of CT Lymph Node Segmentation Foundation Model <i>Authors: Zihao Luo, Zijun Gao, Wenjun Liao, Shichuan Zhang, Guotai Wang, Xiangde Luo</i> <i>Presenter: Zihao Luo, University of Electronic Science and Technology of China, China</i>
B93 (Thu-PM)	Neighborhood-Consistent Binary Transformation for Domain-Invariant Chest X-ray Diagnosis <i>Authors: Zelong Liu, Huachao Zhu, Zhichao Sun, Yuda Zou, Yuliang Gu, Bo Du, Yongchao Xu</i> <i>Presenter: Zelong Liu, Wuhan University, China</i>
B98 (Thu-PM)	A Multi-Branch Framework for Cross-Domain Vessel Segmentation via the Few-Shot Paradigm <i>Authors: Zihang Huang, Tianyu Zhao, Liang Zhang, Xin Yang</i> <i>Presenter: Zihang Huang, Huazhong University of Science and Technology, China</i>
B103 (Thu-PM)	Learning Foundation Models from Multi-Organ Medical Images by Capturing Consistency and Diversity of Anatomical Structures <i>Authors: Mohammad Reza Hosseinzadeh Taher, Junpyo Hong, Ravi Soni, Gopal Avinash</i> <i>Presenter: Junpyo Hong, GE HealthCare, United States</i>
B108 (Thu-PM)	D-CAM: Learning Generalizable Weakly-Supervised Medical Image Segmentation from Domain-invariant CAM <i>Authors: Jingjun Yi, Qi Bi, Hao Zheng, Haolan Zhan, Wei Ji, Huimin Huang, Yuexiang Li, Shaoxin Li, Xian Wu, Yefeng Zheng, Feiyue Huang</i> <i>Presenter: Yefeng Zheng, Westlake University, China</i>
B113 (Thu-PM)	CellStyle: Improved Zero-Shot Cell Segmentation via Style Transfer <i>Authors: R��veyda Yilmaz, Zhu Chen, Yuli Wu, Johannes Stegmaier</i> <i>Presenter: R��veyda Yilmaz, RWTH Aachen University, Germany</i>
B118 (Thu-PM)	Noise-Robust Tuning of SAM for Domain Generalized Ultrasound Image Segmentation <i>Authors: Zhikai Wei, Chao Wu, Hanyu Du, Rui Yu, Bo Du, Yongchao Xu</i> <i>Presenter: Zhikai Wei, Wuhan University, China</i>

B123 (Thu-PM)	Multi-Tube-Voltage vBMD Measurement via Dual-Branch Frequency Balancing and Asymmetric Channel Attention <i>Authors: Mengze Zhang, Yali Li, HuiShu Yuan, Zhen Qian</i> <i>Presenter: Mengze Zhang, United Imaging Healthcare, Co., Ltd, China</i>
B128 (Thu-PM) Paper Highlight	Tied Prototype Model for Few-Shot Medical Image Segmentation <i>Authors: Hyeongji Kim, Stine Hansen, Michael Kampffmeyer</i> <i>Presenter: Hyeongji Kim, UiT - The Arctic University of Norway, Norway</i>
B133 (Thu-PM)	UltraAD: Fine-Grained Ultrasound Anomaly Classification via Few-Shot CLIP Adaptation <i>Authors: Yue Zhou, Yuan Bi, Wenjuan Tong, Wei Wang, Nassir Navab, Zhongliang Jiang</i> <i>Presenter: Yue Zhou, Technical University of Munich, Germany</i>
B138 (Thu-PM)	Learning Disease State from Noisy Ordinal Disease Progression Labels <i>Authors: Gustav Schmidt, Holger Heidrich, Philipp Berens, Sarah Müller</i> <i>Presenter: Gustav Schmidt, University of Tübingen, Germany</i>
B143 (Thu-PM)	Leveraging Diffusion Models for Continual Test-Time Adaptation in Fundus Image Classification <i>Authors: Mingsi Liu, Xiang Li, Mengxiang Guo, Lixin Duan, Huihui Fang, Yanwu Xu</i> <i>Presenter: Mingsi Liu, University of Electronic Science and Technology of China, China</i>
B148 (Thu-PM)	SynPo: Boosting Training-Free Few-Shot Medical Segmentation via High-Quality Negative Prompts <i>Authors: Yufei Liu, Haoke Xiao, Jiaying Chai, Yongcun Zhang, Rong Wang, Zijie Meng, Zhiming Luo</i> <i>Presenter: Yufei Liu, Xiamen University, China</i>
B153 (Thu-PM)	Prompt-DAS: Annotation-Efficient Prompt Learning for Domain Adaptive Semantic Segmentation of Electron Microscopy Images <i>Authors: Jiabao Chen, Shan Xiong, Jialin Peng</i> <i>Presenter: Jiabao Chen, Huaqiao University, China</i>
B158 (Thu-PM)	DSFC: Deformation-Aware Learning Strategy via Self-sustaining Feedback Cycle for Medical Vision Foundation Model Domain Adaptation <i>Authors: Jie Lin, Hengyi Jiang, Hong Liu, Liansheng Wang</i> <i>Presenter: Jie Lin, Xiamen University, China</i>
B163 (Thu-PM)	Domain Generalization for Pulmonary Nodule Detection via Distributionally-Regularized Mamba <i>Authors: Tianzhong Lan, Nan Chen, Zhang Yi, Xiuyuan Xu, Min Zhu</i> <i>Presenter: Tianzhong Lan, Sichuan University, China</i>
B168 (Thu-PM)	MadCLIP: Few-shot Medical Anomaly Detection with CLIP <i>Authors: Mahshid Shiri, Cigdem Beyan, Vittorio Murino</i> <i>Presenter: Cigdem Beyan, University of Verona, Italy</i>
B173 (Thu-PM) Paper Highlight	Dual Knowledge-Aware Guidance for Source-Free Domain Adaptive Fundus Image Segmentation <i>Authors: Yu Chen, Hailing Wang, Chunwei Wu, Guitao Cao</i> <i>Presenter: Yu Chen, East China Normal University, China</i>
B178 (Thu-PM) Paper Highlight	Frequency Strikes Back: Boosting Parameter-Efficient Foundation Model Adaptation for Medical Imaging <i>Authors: Son T. Ly, Hien V. Nguyen</i> <i>Presenter: Son Ly, University of Houston, United States</i>
B183 (Thu-PM)	CAUDA-MI: Cross Attention-Guided Unsupervised Domain Adaptation with Mutual Information for Cardiac MRI Segmentation <i>Authors: Dianrong Du, Hengfei Cui, Jiatong Li, Fan Zheng, Yong Xia</i> <i>Presenter: Dianrong Du, Northwestern Polytechnical University, China</i>
B188 (Thu-PM)	Contrastive Anatomy-Contrast Disentanglement: A Domain-General MRI Harmonization Method <i>Authors: Daniel Scholz, Ayhan Can Erdur, Robbie Holland, Viktoria Ehm, Jan C. Peeken, Benedikt Wiestler, Daniel Rueckert</i> <i>Presenter: Daniel Scholz, Technical University of Munich, Germany</i>
B193 (Thu-PM)	Clinical Prior-Guided Tumor Generation for Breast Ultrasound with Cross Domain Adaptation <i>Authors: Haoyu Pan, Junyang Mo, Hongxin Lin, Chu Zhang, Zijian Wu, Yi Wang, Qingqing Zheng</i> <i>Presenter: Haoyu Pan, Shenzhen University, China</i>

B198 (Thu-PM)	HARP: Harmonization and Adaptive Refinement of Pseudo-Labels for Cross-Domain Medical Image Segmentation <i>Authors: Yulong Liu, Wenqing Ye, Hui Liu, Ziyi Chen, Peilin Li, Ronald X. Xu, Mingzhai Sun</i> <i>Presenter: Yulong Liu, University of Science and Technology of China, China</i>
B203 (Thu-PM)	HASD: Hierarchical Adaption for Pathology Slide-Level Domain-Shift <i>Authors: Jingsong Liu, Han Li, Chen Yang, Michael Deutges, Ario Sadafi, Xin You, Katharina Breininger, Nassir Navab, Peter J. Schöffler</i> <i>Presenter: Jingsong Liu, Technical University of Munich, Germany</i>
B208 (Thu-PM)	Exemplar Med-DETR: Toward Generalized and Robust Lesion Detection in Mammogram Images and Beyond <i>Authors: Sheethal Bhat, Bogdan Georgescu, Adarsh Bhandary Panambur, Mathias Zinnen, Tri-Thien Nguyen, Awais Mansoor, Karim Khalifa Elbarbary, Siming Bayer, Florin-Cristian Ghesu, Sasa Grbic, Andreas Maier</i> <i>Presenter: Sheethal Bhat, Friedrich Alexander Universität, Germany</i>
B213 (Thu-PM)	Selective Alignment Transfer for Domain Adaptation in Skin Lesion Analysis <i>Authors: Nurjahan Sultana, Wenqi Lu, Xinqi Fan, Moi Hoon Yap</i> <i>Presenter: Nurjahan Sultana, Manchester Metropolitan University, United Kingdom</i>
B218 (Thu-PM)	Fusing Dual Encoders: Single-source Domain Generalization with Extremely Few Annotations <i>Authors: Ruofan Wang, Jintao Guo, Jian Zhang, Lei Qi, Yinghuan Shi</i> <i>Presenter: Jian Zhang, Nanjing University, China</i>
B223 (Thu-PM)	TEGDA: Test-time Evaluation-Guided Dynamic Adaptation for Medical Image Segmentation <i>Authors: Yubo Zhou, Jianghao Wu, Wenjun Liao, Shichuan Zhang, Shaoting Zhang, Guotai Wang</i> <i>Presenter: Yubo Zhou, University of Electronic Science and Technology of China, China</i>
B228 (Thu-PM)	Sparsely Labeled fMRI Data Denoising with Meta-Learning-Based Semi-Supervised Domain Adaptation <i>Authors: Keun-Soo Heo, Ji-Wung Han, Soyeon Bak, Minjoo Lim, Bogyeong Kang, Sang-Jun Park, Weili Lin, Han Zhang, Dinggang Shen, Tae-Eui Kam</i> <i>Presenter: Keun-Soo Heo, Korea University, Republic of Korea</i>
Paper Highlight	
B233 (Thu-PM)	Iterative Deployment Exposure for Unsupervised Out-of-Distribution Detection <i>Authors: Lars Doorenbos, Raphael Sznitman, Pablo Márquez-Neila</i> <i>Presenter: Lars Doorenbos, University of Bonn, Germany</i>
B238 (Thu-PM)	Cross-Modality Supervised Prostate Segmentation on CBCT for Adaptive Radiotherapy <i>Authors: Balint Kovacs, Goran Stanic, Fabian Weykamp, Florian Ebert, Dimitrios Bounias, Bouchra Tawk, Martin Niklas, Jakob Liermann, Oliver Jäkel, Klaus H. Maier-Hein, Ralf Floca, Kristina Giske</i> <i>Presenter: Balint Kovacs, German Cancer Research Center (DKFZ) Heidelberg, Germany</i>
B243 (Thu-PM)	DpDNet: An Dual-Prompt-Driven Network for Universal PET-CT Segmentation <i>Authors: Xinglong Liang, Jiaju Huang, Luyi Han, Tianyu Zhang, Xin Wang, Yuan Gao, Chunyao Lu, Lishan Cai, Tao Tan, Ritse Mann</i> <i>Presenter: Xinglong Liang, The Netherlands Cancer Institute, The Netherlands</i>
B248 (Thu-PM)	MedNNS: Supernet-based Medical Task-Adaptive Neural Network Search <i>Authors: Lotfi Abdelkrim Mecharbat, Ibrahim Almakky, Martin Takac, Mohammad Yaqub</i> <i>Presenter: Lotfi Abdelkrim Mecharbat, Mohamed Bin Zayed University of Artificial Intelligence, United Arab Emirates</i>
B253 (Thu-PM)	SAM2-ProMem: Enhancing Zero-Shot 3D Segmentation with Stochastic Propagation and Memory Search <i>Authors: Yujie Wang, Juntao Huang, Dazhu Liang, Fangzhou Liao, Jie Chen, Boan Chen</i> <i>Presenter: Yujie Wang, Shukun Technology & Shanghai Jiaotong University, China</i>
B258 (Thu-PM)	LKA: Large Kernel Adapter for Enhanced Medical Image Classification <i>Authors: Ziquan Zhu, Si-Yuan Lu, Tianjin Huang, Lu Liu, Zhe Liu</i> <i>Presenter: Ziquan Zhu, University of Leicester, United Kingdom</i>
B263 (Thu-PM)	Single Image Test-Time Adaptation via Multi-View Co-Training <i>Authors: Smriti Joshi, Richard Osuala, Lidia Garrucho, Kaisar Kushibar, Dimitri Kessler, Oliver Diaz, Karim Lekadir</i> <i>Presenter: Smriti Joshi, Universitat de Barcelona, Spain</i>
B268 (Thu-PM)	LEAF: Latent Diffusion with Efficient Encoder Distillation for Aligned Features in Medical Image Segmentation <i>Authors: Qilin Huang, Tianyu Lin, Zhiguang Chen, Fudan Zheng</i>

Presenter: Qilin Huang, Sun Yat-sen University, China

B273 (Thu-PM)	Robust sensitivity control in digital pathology via tile score distribution matching <i>Authors: Arthur Pignet, John Klein, Geneviève Robin, Antoine Olivier</i> <i>Presenter: Antoine Olivier, Owkin, France</i>
B278 (Thu-PM)	FedCLAM: Client Adaptive Momentum with Foreground Intensity Matching for Federated Medical Image Segmentation <i>Authors: Vasilis Siomos, Jonathan Passerat-Palmbach, Giacomo Tarroni</i> <i>Presenter: Vasilis Siomos, City St. George's, University of London, United Kingdom</i>
B283 (Thu-PM)	HA-SAM: Hierarchically Adapting SAM for Nerve Segmentation in Ultrasound Images <i>Authors: Zihao Peng, Susu Kang, Xuping Huang, Xucheng Xiang, Gengyu He, Tianzhu Liu, Wei Mei, Shan Tan</i> <i>Presenter: Shan Tan, Huazhong University of Science and Technology, China</i>
B288 (Thu-PM)	Active Source-Free Cross-Domain and Cross-Modality Adaptation for Volumetric Medical Image Segmentation by Image Sensitivity and Organ Heterogeneity Sampling <i>Authors: Jin Yang, Xiaobing Yu, Peijie Qiu, Daniel Marcus, Aristeidis Sotiras</i> <i>Presenter: Aristeidis Sotiras, Washington University School of Medicine in St. Louis, United States</i>
B293 (Thu-PM)	Unleashing SAM for Few-Shot Medical Image Segmentation with Dual-Encoder and Automated Prompting <i>Authors: Cuong M. Pham, Phi Le Nguyen, Thanh Trung Nguyen, Minh Hieu Phan, Binh P. Nguyen</i> <i>Presenter: Binh Nguyen, Victoria University of Wellington, New Zealand</i>
B298 (Thu-PM)	Bayesian Transformers and Higher-Order Graph Matching for Cell Tracking in Serial Tissue Sections <i>Authors: Mostafa Karami, Sahand Hamzehei, David Arce, Gianna Raimondi, Linnaea Ostroff, Sheida Nabavi</i> <i>Presenter: Sheida Nabavi, University of Connecticut, United States</i>
B303 (Thu-PM)	Test-Time Training with Local Contrast- Preserving Copy-Pasted Image for Domain Generalization in Retinal Vessel Segmentation <i>Authors: Yuliang Gu, Zhichao Sun, Zelong Liu, Yongchao Xu</i> <i>Presenter: Yuliang Gu, Wuhan University, China</i>
B308 (Thu-PM)	Robust Fetal Pose Estimation across Gestational Ages via Cross-Population Augmentation <i>Authors: Sebastian Diaz, Benjamin Billot, Neel Dey, Molin Zhang, Esra Abaci Turk, P. Ellen Grant, Polina Golland, Elfar Adalsteinsson</i> <i>Presenter: Sebastian Diaz, Massachusetts Institute of Technology, United States</i>
B313 (Thu-PM)	Domain Generalization for Mammogram Classification by Suppressing Domain-Specific Features <i>Authors: Jiqun Chen, Luhao Sun, Wenzong Jiang, Weifeng Liu, Chao Li, Zhiyong Yu, Baodi Liu</i> <i>Presenter: Jiqun Chen, China University of Petroleum (East China), China</i>
B318 (Thu-PM)	ISAC: Redefining the Vascular Segmentation Paradigm through Mask Completion for Cross-Domain Generalization <i>Authors: Tianyu Zhao, Zihang Huang, Xixi Jiang, Liang Zhang, Xiaohuan Ding, Xin Yang</i> <i>Presenter: Tianyu Zhao, Huazhong University of Science and Technology, China</i>
B323 (Thu-PM)	MAUP: Training-free Multi-center Adaptive Uncertainty-aware Prompting for Cross-domain Few-shot Medical Image Segmentation <i>Authors: Yazhou Zhu, Haofeng Zhang</i> <i>Presenter: Yazhou Zhu, Nanjing University of Science and Technology, China</i>
B328 (Thu-PM)	Addressing Label Scarcity and Domain Shift in Medical Image Segmentation <i>Authors: Suruchi Kumari, Pravendra Singh</i> <i>Presenter: Suruchi Kumari, Indian Institute of Technology Roorkee, India</i>
B333 (Thu-PM)	DetectDiffuse: Aggregation- and Attention-driven Universal Lesion Detection with Multi-scale Diffusion Model <i>Authors: Xinyu Li, Danni Ai, Jingfan Fan, Tianyu Fu, Hong Song, Deqiang Xiao, Jian Yang</i> <i>Presenter: Xinyu Li, Beijing Institute of Technology, China</i>
C3 (Thu-PM)	Parameterized Diffusion Optimization enabled Autoregressive Ordinal Regression for Diabetic Retinopathy Grading <i>Authors: Qinkai Yu, Wei Zhou, Hantao Liu, Yanyu Xu, Meng Wang, Yitian Zhao, Huazhu Fu, Xujiong Ye, Yalin Zheng, Yanda Meng</i> <i>Presenter: Qinkai Yu, University of Exeter, United Kingdom</i>

C8 (Thu-PM)	Few-Shot, Now for Real: Medical VLMs Adaptation without Balanced Sets or Validation <i>Authors: Julio Silva-Rodríguez, Fereshteh Shakeri, Houda Bahig, Jose Dolz, Ismail Ben Ayed</i> <i>Presenter: Julio Silva-Rodríguez, ÉTS Montréal, Canada</i>
C13 (Thu-PM)	Enhancing WSI-Based Survival Analysis with Report-Auxiliary Self-Distillation <i>Authors: Zheng Wang, Hong Liu, Zheng Wang, Danyi Li, Min Cen, Baptiste Magnier, Li Liang, Liansheng Wang</i> <i>Presenter: Liansheng Wang, Xiamen University, China</i>
C18 (Thu-PM)	Learning Contrastive Multimodal Fusion with Improved Modality Dropout for Disease Detection and Prediction <i>Authors: Yi Gu, Kuniaki Saito, Jiaxin Ma</i> <i>Presenter: Yi Gu, Nara Institute of Science and Technology, Japan</i>
C23 (Thu-PM)	Longitudinal MRI-Clinical Multimodal Fusion for pCR Prediction in Breast Cancer <i>Authors: Dingrui Ma, Jiawei Cao, Hao Cheng, Dan Zhou, Jianping Liu, Xiaofeng Zhang, Kaijie Wu, Chaochen Gu, Xinpeng Guan</i> <i>Presenter: Dingrui Ma, Shanghai Jiao Tong University, China</i>
C28 (Thu-PM)	Predicting Alzheimer’s Disease Progression Using a Regression-based Survival Model with Longitudinal Data <i>Authors: Ling Dai, Yiqun Sun, Jincheng Gu, Qinsen Bao, Feihong Liu, Dinggang Shen</i> <i>Presenter: Ling Dai, ShanghaiTech University, China</i>
C33 (Thu-PM)	Contrastive Masked Video Modeling for Coronary Angiography Diagnosis <i>Authors: Zhiming Shao, Yingqian Zhang, Zechen Wei, Yong Ge, Chen Wang, Guodong Ding, Lei Gao, Liwei Zhang, Yundai Chen, Jie Tian, Hui Hui</i> <i>Presenter: Zhiming Shao, Key Laboratory of Molecular Imaging, Institute of Automation, Chinese Academy of Sciences, China</i>
C38 (Thu-PM)	Dynamic Function-Structure Connectivity Coupling for Predicting Progression Trajectories in Neurocognitive Decline <i>Authors: Qianqian Wang, Wei Wang, Hong-Jun Li, Weili Lin, Mingxia Liu</i> <i>Presenter: Qianqian Wang, The University of North Carolina at Chapel Hill, United States</i>
C43 (Thu-PM)	MurreNet: Modeling Holistic Multimodal Interactions Between Histopathology and Genomic Profiles for Survival Prediction <i>Authors: Mingxin Liu, Chengfei Cai, Jun Li, Pengbo Xu, Jinze Li, Jiquan Ma, Jun Xu</i> <i>Presenter: Mingxin Liu, Nanjing University of Information Science and Technology, China</i>
C48 (Thu-PM)	Opportunistic Osteoporosis Diagnosis via Texture-Preserving Self-Supervision, Mixture of Experts and Multi-Task Integration <i>Authors: Jiaxing Huang, Heng Guo, Le Lu, Fan Yang, Minfeng Xu, Ge Yang, Wei Luo</i> <i>Presenter: Jiaxing Huang, Institute of Automation, Chinese Academy of Sciences, China</i>
C53 (Thu-PM)	Multi-modal Knowledge Decomposition based Online Distillation for Biomarker Prediction in Breast Cancer Histopathology <i>Authors: Qibin Zhang, Xinyu Hao, Qiao Chen, Rui Xu, Fengyu Cong, Cheng Lu, Hongming Xu</i> <i>Presenter: Hongming Xu, Dalian University of Technology, China</i>
C58 (Thu-PM)	Cross-Modality Masked Learning for Survival Prediction in ICI Treated NSCLC Patients <i>Authors: Qilong Xing, Zikai Song, Bingxin Gong, Lian Yang, Junqing Yu, Wei Yang</i> <i>Presenter: Qilong Xing, Huazhong University of Science and Technology, China</i>
C63 (Thu-PM)	MedSoft-Diffusion: Medical Semantic-Guided Diffusion Model with Soft Mask Conditioning for Vertebral Disease Diagnosis <i>Authors: Shidan He, Enyuan Hu, Zixuan Tang, Bin Chen, Dongdong Yu, Yuan Hong, Zhenzhong Liu, Mengtang Li, Lei Liu, Shen Zhao</i> <i>Presenter: Shidan He, Sun Yat-sen University, China</i>
Paper Highlight	
C68 (Thu-PM)	Dual Selective Gleason Pattern-Aware Multiple Instance Learning for Grade Group Prediction in Histopathology Images <i>Authors: Xinyu Hao, Hongming Xu, Qibin Zhang, Qi Xu, Ilkka Polonen, Fengyu Cong</i> <i>Presenter: Xinyu Hao, Dalian University of Technology, China</i>
C73 (Thu-PM)	MvHo-IB: Multi-View Higher-Order Information Bottleneck for Brain Disorder Diagnosis <i>Authors: Kunyu Zhang, Qiang Li, Shujian Yu</i> <i>Presenter: Kunyu Zhang, Zhengzhou University, China</i>
C78 (Thu-PM)	CoC: Chain-of-Cancer based on Cross-Modal Autoregressive Traction for Survival Prediction

	<i>Authors: Haipeng Zhou, Sicheng Yang, Sihan Yang, Jing Qin, Lei Chen, Lei Zhu</i> <i>Presenter: Haipeng Zhou, The Hong Kong University of Science and Technology (Guangzhou), China</i>
C83 (Thu-PM)	Clinical Prior Guided Cross-Modal Hierarchical Fusion for Histological Subtyping of Lung Cancer in CT Scans <i>Authors: Chenchen Fan, Ahmed Elazab, Songqi Zhang, Yuxuan Wang, Qinghua Liang, Danna Li, Yongquan Zhang, Ying Xiang, Bo Liu, Changmiao Wang</i> <i>Presenter: Chenchen Fan, Zhejiang University of Finance and Economics, China</i>
C88 (Thu-PM)	DISCLOSE the Neurodegeneration Dynamics: Individualized ODE Discovery for Alzheimer’s Disease Precision Medicine <i>Authors: Wooseok Jung, Joonhyuk Park, Won Hwa Kim</i> <i>Presenter: Joonhyuk Park, Pohang University of Science and Technology, Republic of Korea</i>
C93 (Thu-PM)	GrInAdapt: Source-free Multi-Target Domain Adaptation for Retinal Vessel Segmentation <i>Authors: Zixuan Liu, Aaron Honjaya, Yuekai Xu, Yi Zhang, Hefu Pan, Xin Wang, Linda G. Shapiro, Sheng Wang, Ruikang K. Wang</i> <i>Presenters: Aaron Honjaya and Yuekai Xu, University of Washington, United States</i>
C98 (Thu-PM)	LNODE: Uncovering the Latent Dynamics of Aβ in Alzheimer’s Disease <i>Authors: Zheyu Wen, George Biros</i> <i>Presenter: George Biros, The University of Texas at Austin, United States</i>
C103 (Thu-PM)	Clinical Data-Driven Retrieval-Augmented Model for Lung Nodule Malignancy Prediction <i>Authors: Ruibo Hou, Shurong Chai, Rahul Kumar Jain, Yinhao Li, Jiaqing Liu, Shiyu Teng, Xiaoyu Shi, Lanfen Lin, Yen-Wei Chen</i> <i>Presenter: Ruibo Hou, Ritsumeikan University, Japan</i>
C108 (Thu-PM)	Prior-guided Prototype Aggregation Learning for Alzheimer’s Disease Diagnosis <i>Authors: Yueqin Diao, Huihui Fang, Hanyi Yu, Yuning Wang, Yaling Tao, Ziyang Huang, Si Yong Yeo, Yanwu Xu</i> <i>Presenter: Yueqin Diao, South China University of Technology, China</i>
C113 (Thu-PM)	Collateral Circulation guided Multi-modality Fusion Network for Postoperative Infarct Prediction <i>Authors: Yichen Guo, Xinyi Zhao, Lisong Dai, Heming Dong, Lai Jiang, Mai Xu, Shengxi Li</i> <i>Presenter: Lai Jiang, Beihang University, China</i>
C118 (Thu-PM)	Temporal Atlas-Guided Generation of Longitudinal Data via Geometric Latent Embeddings <i>Authors: Shaoju Wu, Jian Wang, Sila Kurugol, Andy Tsai</i> <i>Presenter: Sila Kurugol, Boston Children's Hospital and Harvard Medical School, United States</i>
C123 (Thu-PM)	Reliable and Interpretable Visual Field Progression Prediction with Diffusion Models and Conformal Risk Control <i>Authors: Wenwen Si, Vivian Lin, Bo Sun, Kuk Jin Jang, Rubo Xing, Almiqdad Saeed, Rina Nagatani, Oleg Sokolsky, Insup Lee, Lama Al-Aswad</i> <i>Presenter: Vivian Lin, University of Pennsylvania, United States</i>
C128 (Thu-PM)	Fine-Grained Rib Fracture Diagnosis with Hyperbolic Embeddings: A Detailed Annotation Framework and Multi-Label Classification Model <i>Authors: Shripad Pate, Aiman Farooq, Suvrankar Datta, Musadiq Aadil Sheikh, Atin Kumar, Deepak Mishra</i> <i>Presenter: Aiman Farooq, Indian Institute of Technology Jodhpur, India</i>
C133 (Thu-PM)	From Pixels to Prognosis: A Multi-Modal Attention-based Framework for Visceral Adipose Tissue Estimation <i>Authors: Arooba Maqsood, Afsah Saleem, Marc Sim, David Suter, Simone Radavelli-Bagatini, Jonathan M. Hodgson, Richard L. Prince, Kun Zhu, William D. Leslie, John T. Schousboe, Joshua R. Lewis, Syed Zulqarnain Gilani</i> <i>Presenter: Arooba Maqsood, Edith Cowan University, Australia</i>
C138 (Thu-PM)	VMRA-MaR: An Asymmetry-Aware Temporal Framework for Longitudinal Breast Cancer Risk Prediction <i>Authors: Zijun Sun, Solveig Thrun, Michael Kampffmeyer</i> <i>Presenter: Zijun Sun, University of Bologna, Italy</i>
C143 (Thu-PM)	OTSurv: A Novel Multiple Instance Learning Framework for Survival Prediction with Heterogeneity-aware Optimal Transport <i>Authors: Qin Ren, Yifan Wang, Ruogu Fang, Haibin Ling, Chenyu You</i> <i>Presenter: Chenyu You, Stony Brook University, United States</i>

C148 (Thu-PM)	Flexibly Distilled 3D Rectified Flow with Anatomical Constraints for Developmental Infant Brain MRI Prediction <i>Authors: Haifeng Wang, Zehua Ren, Heng Chang, Xinmei Qiu, Fan Wang, Chunfeng Lian, Jianhua Ma</i> <i>Presenter: Chunfeng Lian, Xi'an Jiaotong University, China</i>
C153 (Thu-PM)	Foundation-Model-Boosted Multimodal Learning for fMRI-based Neuropathic Pain Drug Response Prediction <i>Authors: Wenrui Fan, L. M. Riza Rizky, Jiayang Zhang, Chen Chen, Haiping Lu, Kevin Teh, Dinesh Selvarajah, Shuo Zhou</i> <i>Presenter: Wenrui Fan, The University of Sheffield, United Kingdom</i>
C158 (Thu-PM)	RANDose: A Region-aware Attention Network for Accurate Radiation Dose Prediction <i>Authors: G. Jignesh Chowdary, Tiezhi Zhang, Xin Qian, Zhaozheng Yin</i> <i>Presenter: G. Jignesh Chowdary, Stony Brook University, United States</i>
C163 (Thu-PM)	PLUS: Plug-and-Play Enhanced Liver Lesion Diagnosis Model on Non-Contrast CT Scans <i>Authors: Jiacheng Hao, Xiaoming Zhang, Wei Liu, Xiaoli Yin, Yuan Gao, Chunli Li, Ling Zhang, Le Lu, Yu Shi, Xu Han, Ke Yan</i> <i>Presenter: Jiacheng Hao, Tsinghua University, China</i>
C168 (Thu-PM)	Asynchronous Multi-Modal Learning for Dynamic Risk Monitoring of Acute Respiratory Distress Syndrome in Intensive Care Units <i>Authors: Yidan Feng, Bohan Zhang, Sen Deng, Zhanli Hu, Jing Qin</i> <i>Presenter: Yidan Feng, The Hong Kong Polytechnic University, China</i>
C173 (Thu-PM)	VT-SNN: Variable Time-step Spiking Neural Network Based on Uncertainty Measure and Its Application in Brain Disease Diagnosis <i>Authors: Haonan Rao, Shaolong Wei, Shu Jiang, Mingliang Wang, Weiping Ding, Jiashuang Huang</i> <i>Presenter: Haonan Rao, Nantong University, China</i>
C178 (Thu-PM)	ThyroidXL: Advancing Thyroid Nodule Diagnosis with an Expert-Labeled, Pathology-Validated Dataset <i>Authors: Hung Duong Viet, Huan Vu, Duong Phan Huong, Quyen Nguyen Duc, Hao Pham Duc, Toan Le Quang, Sy Nguyen Ba, Dung Do Tien, Sang Dinh Viet, Cuong Nguyen Tien, Hoang Pham Huy, Hy Ngo Dien</i> <i>Presenter: Cuong Nguyen, VNPT, Vietnam</i>
C183 (Thu-PM)	Multi-scale Attention-based Multiple Instance Learning for Breast Cancer Diagnosis <i>Authors: Mariana Mourão, Jacinto C. Nascimento, Carlos Santiago, Margarida Silveira</i> <i>Presenter: Mariana Mourão, Instituto Superior Técnico, Portugal</i>
C188 (Thu-PM)	Multistage Alignment and Fusion for Multimodal Multiclass Alzheimer’s Disease Diagnosis <i>Authors: Shuo Huang, Lujia Zhong, Yonggang Shi</i> <i>Presenter: Yonggang Shi, University of Southern California, United States</i>
C193 (Thu-PM)	Lesion-centered vision transformer for stroke outcome prediction from image and clinical data <i>Authors: Mingtian Liu, Nima Hatami, Laura Mechtouff, Tae-Hee Cho, Carole Lartizien, Carole Frindel</i> <i>Presenter: Mingtian Liu, CREATIS, France</i>
C198 (Thu-PM)	Hard Sample Mining-based Tongue Diagnosis for Fatty Liver Disease Severity Classification <i>Authors: Tao Chen, Jie Gao, Yong Xu, Weihong Qiu, Yijie Wu, Weimin Ye, Kunhong Liu</i> <i>Presenter: Tao Chen, Zhejiang University, China</i>
C203 (Thu-PM)	Leveraging Visual Prompt with Diffusion Adversarial Network for Radiotherapy Dose Prediction <i>Authors: Zhenghao Feng, Lu Wen, Jiaqi Cui, Xi Wu, Jianghong Xiao, Xingchen Peng, Dinggang Shen, Yan Wang</i> <i>Presenter: Yan Wang, Sichuan University, China</i>
C208 (Thu-PM)	RadKAM: Attention-Driven Kolmogorov-Arnold Model for Automatic Radiation-Induced Lymphopenia Prediction by Multimodal Learning <i>Authors: Rongchang Zhao, Zhangyue Wu, Jian Zhang, Zijian Zhang, Shuo Li</i> <i>Presenter: Rongchang Zhao, Central South University, China</i>
C213 (Thu-PM)	UniCross: Balanced Multimodal Learning for Alzheimer’s Disease Diagnosis by Uni-modal Separation and Metadata-guided Cross-modal Interaction <i>Authors: Lisong Yin, Chuyang Ye, Tiantian Liu, Jinglong Wu, Tianyi Yan</i> <i>Presenter: Lisong Yin, Beijing Institute of Technology, China</i>

C218 (Thu-PM)	Integrate Semantic Radiomics as Prior Evidence into Evidential Deep Learning for Pelvic Lipomatosis Diagnosis <i>Authors: Zheran Zhang, Xiaodong Yue, Maoyu Wang, Zhikang Xu, Yufei Chen, Zhipeng Wei</i> <i>Presenter: Zheran Zhang, Shanghai University, China</i>
C223 (Thu-PM)	MT-WilmsNet: A Multi-Level Transformer Fusion Network for Wilms’ Tumor Segmentation and Metastasis Prediction <i>Authors: Zhu Zhu, Wenjing Yu, Xiaohui Ma, Shuai Liu, Jie Dong, Yuxin Du, Changmiao Wang, Gang Yu</i> <i>Presenter: Zhu Zhu, Zhejiang University, China</i>
C228 (Thu-PM)	Prototype-Guided Cross-Modal Knowledge Enhancement for Adaptive Survival Prediction <i>Authors: Fengchun Liu, Linghan Cai, Zhikang Wang, Zhiyuan Fan, Jin-gang Yu, Hao Chen, Yongbing Zhang</i> <i>Presenter: Fengchun Liu, Harbin Institute of Technology (Shenzhen), China</i>
C233 (Thu-PM) Paper Highlight	Attention-Based Multimodal Deep Learning Model for Post-Stroke Motor Impairment Prediction <i>Authors: Rukiye Karakis, Kali Gurkahraman, Georgios D. Mitsis, Marie-Hélène Boudrias</i> <i>Presenter: Rukiye Karakis, Sivas Cumhuriyet University, Turkey</i>
C238 (Thu-PM)	Uncertainty-Aware Multimodal MRI Fusion for HIV-Associated Asymptomatic Neurocognitive Impairment Prediction <i>Authors: Zige Chen, Haonan Qin, Wei Wang, Zhongkai Zhou, Chen Zhao, Yuqi Fang, Caifeng Shan</i> <i>Presenter: Zige Chen, Nanjing University, China</i>
C243 (Thu-PM)	CTSL: Codebook-based Temporal-Spatial Learning for Accurate Non-Contrast Cardiac Risk Prediction Using Cine MRIs <i>Authors: Haoyang Su, Shaohao Rui, Jinyi Xiang, Lianming Wu, Xiaosong Wang</i> <i>Presenter: Haoyang Su, Fudan University, China</i>
C248 (Thu-PM) Paper Highlight	Boosting Generalizability in NPC ART Prediction via Multi-Omics Feature Mapping <i>Authors: Jiabao Sheng, Zhe Li, Jiang Zhang, Saikit Lam, Zhi Chen, Lei Xing, Jing Cai</i> <i>Presenter: Jiabao Sheng, The Hong Kong Polytechnic University, Hong Kong SAR</i>
C253 (Thu-PM)	Brain-Heart-Gut Guided Multi-Constraint Knowledge Distillation for Early Alzheimer’s Disease Diagnosis <i>Authors: Fan Li, Shilun Zhao, Shuwei Bai, Yuxiao Liu, Kai Zhang, Yin Xu, Ya Zhang, Kaicong Sun, Dinggang Shen</i> <i>Presenter: Fan Li, ShanghaiTech University, China</i>
C258 (Thu-PM)	Feature Copy-Paste Network for Lung Cancer EGFR Mutation Status Prediction in CT images <i>Authors: Xingyu Huang, Shuo Wang, Chengcai Liu, Haolin Sang, Yi Wu, Jie Tian</i> <i>Presenter: Xingyu Huang, Beihang University, China</i>
C263 (Thu-PM)	Conditional Latent Diffusion Models for Irregularly Spaced Longitudinal Radiological Data <i>Authors: Nabil Mouadden, Othmane Laousy, Rafael Marini, Valentin Ong, Marie-Pierre Revel, Guillaume Chassagnon, Stergios Christodoulidis, Maria Vakalopoulou</i> <i>Presenter: Maria Vakalopoulou, Centrale Supélec, University Paris Saclay, France</i>
C268 (Thu-PM) Paper Highlight	Self-Propagative Multi-Task Learning for Predicting Cardiometabolic Risk Factors <i>Authors: Seonghyeon Ko, Huigyu Yang, Junghyun Bum, Duc-Tai Le, Hyunseung Choo</i> <i>Presenter: Seonghyeon Ko, Sungkyunkwan University, Republic of Korea</i>
C273 (Thu-PM)	Spatially Gene Expression Prediction using Dual-Scale Contrastive Learning <i>Authors: Mingcheng Qu, Yuncong Wu, Donglin Di, Yue Gao, Tonghua Su, Yang Song, Lei Fan</i> <i>Presenter: Mingcheng Qu, Harbin Institute of Technology, China</i>
C278 (Thu-PM)	Multiview Feature Fusion and Contrastive Learning for Drug-Target Interaction Prediction <i>Authors: Xiaoting Zeng, Li Li, Yu Liang, Weilin Chen, Baiying Lei</i> <i>Presenter: Xiaoting Zeng, Shenzhen University, China</i>
C283 (Thu-PM) Paper Highlight	A flexible deep learning framework for survival analysis with medical data <i>Authors: Gabriele Campanella, Ida Häggström, Lucas Kook, Torsten Hothorn, Thomas J. Fuchs</i> <i>Presenter: Ida Häggström, Chalmers University of Technology, Sweden</i>
C288 (Thu-PM)	Progression-Aware Generative Model Enhancing Baseline Visit Prediction of Early Alzheimer’s Disease <i>Authors: Xingyu Gao, Runyi Guo, Zhe Zhao</i> <i>Presenter: Xingyu Gao, Donghua University, China</i>

C293 (Thu-PM)	Adaptive Adversarial Data Augmentation with Trajectory Constraint for Alzheimer’s Disease Conversion Prediction <i>Authors: Hyuna Cho, Hayoung Ahn, Guorong Wu, Won Hwa Kim</i> <i>Presenter: Hyuna Cho, Pohang University of Science and Technology, Republic of Korea</i>
C298 (Thu-PM)	MReg: A Novel Regression Model with MoE-based Video Feature Mining for Mitral Regurgitation Diagnosis <i>Authors: Zhe Liu, Yuhao Huang, Lian Liu, Chengrui Zhang, Haotian Lin, Tong Han, Zhiyuan Zhu, Yanlin Chen, Ruiyue Chen, Dong Ni, Zhongshan Gou, Xin Yang</i> <i>Presenter: Zhe Liu, Shenzhen University, China</i>
C303 (Thu-PM)	PTCMIL: Multiple Instance Learning via Prompt Token Clustering for Whole Slide Image Analysis <i>Authors: Beidi Zhao, SangMook Kim, Hao Chen, Chen Zhou, Zu-hua Gao, Gang Wang, Xiaoxiao Li</i> <i>Presenter: Beidi Zhao, The University of British Columbia, Canada</i>
C308 (Thu-PM)	Cross-Modal CXR-CTPA Knowledge Distillation using latent diffusion priors towards CXR Pulmonary Embolism Diagnosis <i>Authors: Noa Cahan, Meshi Sizikov, Hayit Greenspan</i> <i>Presenter: Noa Cahan, Tel Aviv University, Israel</i>
C313 (Thu-PM)	Temporal Representation Learning of Phenotype Trajectories for pCR Prediction in Breast Cancer <i>Authors: Ivana Janíčková, Yen Y. Tan, Thomas H. Helbich, Konstantin Miloserdov, Zsuzsanna Bago-Horvath, Ulrike Heber, Georg Langs</i> <i>Presenter: Ivana Janíčková, Medical University of Vienna, Austria</i>
C318 (Thu-PM)	Investigating Voxel-level Brain Age Prediction as a Pretext Task for Brain MRI Segmentation <i>Authors: Tasneem Nasser, Roberto Souza, Naser El-Sheimy</i> <i>Presenter: Tasneem Nasser, University of Calgary, Canada</i>
C323 (Thu-PM)	VAMPIRE: Uncovering Vessel Directional and Morphological Information from OCTA Images for Cardiovascular Disease Risk Factor Prediction <i>Authors: Lehan Wang, Hualiang Wang, Chubin Ou, Lushi Chen, Yunyi Liang, Xiaomeng Li</i> <i>Presenter: Lehan Wang, The Hong Kong University of Science and Technology, Hong Kong SAR</i>
C328 (Thu-PM)	Deep Knowledge-Infused Transformer for NSCLC Lymph Node Station Metastasis Prediction: Development of an AI-Powered Intraoperative Decision System <i>Authors: Jie Zhao, Zifan Chen, Guangzhengao Yang, Yijiang He, Li Zhang, Bin Dong</i> <i>Presenter: Jie Zhao, Peking University, China</i>
C333 (Thu-PM)	MELON: Multimodal Mixture-of-Experts with Spectral-Temporal Fusion for Long-Term MObility Estimation in Critical Care <i>Authors: Jiaqing Zhang, Miguel Contreras, Jessica Sena, Andrea Davidson, Yuanfang Ren, Ziyuan Guan, Tezcan Ozrazgat-Baslanti, Tyler J. Loftus, Subhash Nerella, Azra Bihorac, Parisa Rashidi</i> <i>Presenter: Subhash Nerella, University of Florida, United States</i>
Paper Highlight	

Poster Session 4: Deployment, Trustworthiness, and Privacy / Surgical Navigation / Reconstruction and Synthesis in MRI and CT/X-Ray
Friday, September 26, 2025, 11:00 – 12:30
Poster Hall (DCC 2)

A4 (Fri-AM) Paper Highlight	Maverick: Collaboration-free Federated Unlearning for Medical Privacy <i>Authors: Win Kent Ong, Chee Seng Chan</i> <i>Presenter: Win Kent Ong, Universiti Malaya, Malaysia</i>
A9 (Fri-AM)	MeDi: Metadata-Guided Diffusion Models for Mitigating Biases in Tumor Classification <i>Authors: David Jacob Drexlin, Jonas Dippel, Julius Hense, Niklas Prenil, Grgoire Montavon, Frederick Klauschen, Klaus-Robert Mller</i> <i>Presenter: Jonas Dippel, TU Berlin, Germany</i>
A14 (Fri-AM)	FOCUS: Feature Replay with Optimized Channel-Consistent Dropout for U-Net Skip-Connections <i>Authors: Simon Johannes Joham, Franz Thaler, Arnela Hadzic, Martin Urschler</i> <i>Presenter: Simon Joham, Medical University of Graz, Austria</i>
A19 (Fri-AM)	Temporal Model-Based Federated Active Medical Image Classification <i>Authors: Yunlu Yan, Chun-Mei Feng, Yuexiang Li, Jinheng Xie, Jun Chen, Mohamed Elhoseiny, Ming Hu, Kaishun Wu, Lei Zhu</i> <i>Presenter: Yunlu Yan, The Hong Kong University of Science and Technology (Guangzhou), China</i>
A24 (Fri-AM)	PRECISE-AS: Personalized Reinforcement Learning for Efficient Point-of-Care Echocardiography in Aortic Stenosis Diagnosis <i>Authors: Armin Saadat, Nima Hashemi, Hooman Vaseli, Michael Y. Tsang, Christina Luong, Michiel Van de Panne, Teresa S. M. Tsang, Purang Abolmaesumi</i> <i>Presenter: Armin Saadat, University of British Columbia, Canada</i>
A29 (Fri-AM)	Shuffle-Diversity Collaborative Federated Learning for Imbalanced Medical Image Analysis <i>Authors: Wenpeng Gao, Liantao Lan, Yumeng Liu, Ruxin Wang, Xiaomao Fan</i> <i>Presenter: Xiaomao Fan, Shenzhen Technology University, China</i>
A34 (Fri-AM)	GoCa: Trustworthy Multi-Modal RAG with Explicit Thinking Distillation for Reliable Decision-Making in Med-LVLMs <i>Authors: Pengyu Dai, Yafei Ou, Yuqiao Yang, Ze Jin, Kenji Suzuki</i> <i>Presenter: Pengyu Dai, Institute of Science Tokyo, Japan</i>
A39 (Fri-AM)	Subgroup Performance Analysis in Hidden Stratifications <i>Authors: Alceu Bissoto, Trung-Dung Hoang, Tim Flhmann, Susu Sun, Christian F. Baumgartner, Lisa M. Koch</i> <i>Presenter: Alceu Bissoto, University of Bern, Switzerland</i>
A44 (Fri-AM) Paper Highlight	On the Interplay of Human-AI Alignment, Fairness, and Performance Trade-offs in Medical Imaging <i>Authors: Haozhe Luo, Ziyu Zhou, Shelley Zixin Shu, Aurlie Pahud de Mortanges, Robert Berke, Mauricio Reyes</i> <i>Presenter: Haozhe Luo, University of Bern, Switzerland</i>
A49 (Fri-AM)	DeepAf: One-Shot Spatiospectral Auto-Focus Model for Digital Pathology <i>Authors: Yousef Yeganeh, Maximilian Frantzen, Michael Lee, Kun Hsing-Yu, Nassir Navab, Azade Farshad</i> <i>Presenter: Yousef Yeganeh, Technical University of Munich, Germany</i>
A54 (Fri-AM)	Personalized Federated Side-Tuning for Medical Image Classification <i>Authors: Jiayi Chen, Benteng Ma, Yongsheng Pan, Bin Pu, Hengfei Cui, Yong Xia</i> <i>Presenter: Yong Xia, Northwestern Polytechnical University, China</i>
A59 (Fri-AM)	Privacy Preserving Chest X-ray Classification in Latent Space with Homomorphically Encrypted Neural Inference <i>Authors: Jonghun Kim, Gyeongdeok Jo, Sinyoung Ra, Hyunjin Park</i> <i>Presenter: Jonghun Kim, Sungkyunkwan University, Republic of Korea</i>
A64 (Fri-AM)	Embedding-Based Federated Data Sharing via Differentially Private Conditional VAEs <i>Authors: Francesco Di Salvo, Hanh Huyen My Nguyen, Christian Ledig</i> <i>Presenter: Francesco Di Salvo, University of Bamberg, Germany</i>
A69 (Fri-AM)	Incorporating Rather Than Eliminating: Achieving Fairness for Skin Disease Diagnosis Through Group-Specific Experts <i>Authors: Gelei Xu, Yuying Duan, Zheyuan Liu, Xueyang Li, Meng Jiang, Michael Lemmon, Wei Jin, Yiyu Shi</i>

Presenter: Gelei Xu, University of Notre Dame, United States

A74 (Fri-AM)

Seeing Beyond the Surface: Retinal Thickness Prediction from Color Fundus Photography for DME Management

Authors: Wenquan Cheng, Yihua Sun, Jinyuan Wang, Jia Guo, Zihan Li, Zhuhao Wang, Guochen Ning, Yingfeng Zheng, Hongen Liao, Tien Yin Wong, Su Jeong Song

Presenter: Wenquan Cheng, Tsinghua University, China

A79 (Fri-AM)

GradInvDiff: Stealing Medical Privacy in Federated Learning via Diffusion-Based Gradient Inversion

Authors: Zhiyuan Wang, Daisong Gan, Wenzhuo Fang, Yuliang Zhu, Kun Liu

Presenter: Daisong Gan, University of Chinese Academy of Sciences, China

A84 (Fri-AM)

RadioFormer: Integrating Radiologist Inductive Bias for Tumor Classification on Multi-Sequence MR Images

Authors: Xiaoyu Bai, Yong Xia

Presenter: Xiaoyu Bai, Northwestern Polytechnical University, China

A89 (Fri-AM)

Mutual Information Regularization for Fairness-aware Deep Imaging Representations

Authors: Amir Reza Sadri, Thomas DeSilvio, Satish E. Viswanath

Presenter: Amir Reza Sadri, Case Western Reserve University, United States

A94 (Fri-AM)

Multi-task Screening for Cervical Diseases via Feature Routing and Asymmetric Distillation

Authors: Haotian Jiang, Haolin Huang, Jiangdong Cai, Mengjie Xu, Zhenrong Shen, Manman Fei, Xinyu Wang, Lichi Zhang, Qian Wang

Presenter: Haotian Jiang, ShanghaiTech University, China

A99 (Fri-AM)

FedWSIDD: Federated Whole Slide Image Classification via Dataset Distillation

Authors: Haolong Jin, Shenglin Liu, Cong Cong, Qingmin Feng, Yongzhi Liu, Lina Huang, Yingzi Hu

Presenter: Haolong Jin, Huazhong University of Science and Technology, China

A104 (Fri-AM)

Decentralized Noise Handling in Medical Imaging: Encoder-Decoder Based Federated Imputation for Robust Training

Authors: Yunyoung Chang, Yeonwoo Noh, Sang-Woong Lee, Minwoo Lee, Wonjong Noh

Presenter: Yunyoung Chang, Gachon University, Republic of Korea

A109 (Fri-AM)

Variational Visible Layers: A Practical Framework for Uncertainty Estimation

Authors: Zeinab Abboud, Herve Lombaert, Samuel Kadoury

Presenter: Zeinab Abboud, Polytechnique Montreal, Canada

A114 (Fri-AM)

Conformal Risk Control for Semantic Uncertainty Quantification in Computed Tomography

Authors: Jacopo Teneggi, J. Webster Stayman, Jeremias Sulam

Presenter: Jacopo Teneggi, Johns Hopkins University, United States

A119 (Fri-AM)

Enhancing AI-assisted Stroke Emergency Triage with Adaptive Uncertainty Estimation

Authors: Shuhua Yang, Tongan Cai, Haomiao Ni, Wenchao Ma, Yuan Xue, Kelvin Wong, John Volpi, James Z. Wang, Sharon X. Huang, Stephen T. C. Wong

Presenter: Sharon Huang, The Pennsylvania State University, United States

A124 (Fri-AM)

PRADA: Protecting and Detecting Dataset Abuse for Open-source Medical Dataset

Authors: Jinhyeok Jang, Hong Joo Lee, Nassir Navab, Seong Tae Kim

Presenter: Hong Joo Lee, Technical University of Munich, Germany

A129 (Fri-AM)

Equitable Federated Learning with NCA

Authors: Nick Lemke, Mirko Konstantin, Henry John Krumb, John Kalkhof, Jonathan Stieber, Anirban Mukhopadhyay

Presenter: Nick Lemke, Technische Universität Darmstadt, Germany

A134 (Fri-AM)

Bridging Knowledge Discrepancy in Retinal Image Analysis through Federated Multi-Task Learning

Authors: Jing Yang, Yuxi Ma, Jin-Gang Yu, Feng Gao, Shuting Yang, Du Cai, Jiacheng Wang, Liansheng Wang

Presenter: Jing Yang, National Institute for Data Science in Health and Medicine & Xiamen University, China

A139 (Fri-AM)

Enhancing Soft Tissue Sarcoma Classification by Mitigating Patient-Specific Bias in Whole Slide Images

Authors: Weiping Lin, Runchen Zhu, Wentai Hou, Jiacheng Wang, Yixuan Lin, Rui Chen, Na Ta, Liansheng Wang

Presenter: Weiping Lin, Xiamen University, China

A144 (Fri-AM)

High-Order Progressive Trajectory Matching for Medical Image Dataset Distillation

Authors: Le Dong, Jinghao Bian, Jingyang Hou, Jingliang Hu, Yilei Shi, Weisheng Dong, Xiao Xiang Zhu, Lichao Mou
Presenter: Le Dong, Xidian University, China

A149 (Fri-AM)

Revisit the Stability of Vanilla Federated Learning Under Diverse Conditions
Authors: Youngjoon Lee, Jinu Gong, Sun Choi, Joonhyuk Kang
Presenter: Youngjoon Lee, Korea Advanced Institute of Science & Technology, Republic of Korea

A154 (Fri-AM)

Adaptive Frame Selection for Gestational Age Estimation from Blind Sweep Fetal Ultrasound Videos
Authors: Tanya Akumu, Marawan Elbatel, Victor M. Campello, Richard Osuala, Carlos Martin-Isla, Ignacio Valenzuela, Xiaomeng Li, Bishesh Khanal, Karim Lekadir
Presenter: Tanya Akumu, University of Barcelona, Spain

Paper Highlight

A159 (Fri-AM)

LHU-Net: a Lean Hybrid U-Net for Cost-efficient, High-performance Volumetric Segmentation
Authors: Yousef Sadegheih, Afshin Bozorgpour, Pratibha Kumari, Reza Azad, Dorit Merhof
Presenter: Yousef Sadegheih, University of Regensburg, Germany

A164 (Fri-AM)

Feeling the Stakes: Realism and Ecological Validity in User Research for Computer-Assisted Interventions
Authors: Sue Min Cho, Winnie Wu, Ethan Kilmer, Russell H. Taylor, Mathias Unberath
Presenter: Sue Min Cho, Johns Hopkins University, United States

A169 (Fri-AM)

WaveFormer: A 3D Transformer with Wavelet-Driven Feature Representation for Efficient Medical Image Segmentation
Authors: Md Mahfuz Al Hasan, Mahdi Zaman, Abdul Jawad, Alberto Santamaria-Pang, Ho Hin Lee, Ivan Tarapov, Kyle B. See, Md Shah Imran, Antika Roy, Yaser Pourmohammadi Fallah, Navid Asadizanjani, Reza Forghani
Presenter: Kyle See, University of Florida, United States

A174 (Fri-AM)

Toward Medical Deepfake Detection: A Comprehensive Dataset and Novel Method
Authors: Shuaibo Li, Zhaohu Xing, Hongqiu Wang, Pengfei Hao, Xingyu Li, Zekai Liu, Lei Zhu
Presenter: Shuaibo Li, The Hong Kong University of Science and Technology (Guangzhou), China

Paper Highlight

A179 (Fri-AM)

SV-DRR: High-Fidelity Novel View X-Ray Synthesis Using Diffusion Model
Authors: Chun Xie, Yuichi Yoshii, Itaru Kitahara
Presenter: Chun Xie, University of Tsukuba, Japan

A184 (Fri-AM)

Direct Inversion Formula of the Multi-coil MR Operator under Arbitrary Trajectories
Authors: Junzhou Chen, Anthony G. Christodoulou, Zhaoyang Fan
Presenter: Junzhou Chen, Cedars-Sinai Medical Center, United States

A189 (Fri-AM)

Reflect: Rectified Flows for Efficient Brain Anomaly Correction Transport.
Authors: Farzad Beizaei, Sina Hajimiri, Ismail Ben Ayed, Gregory Lodygensky, Christian Desrosiers, Jose Dolz
Presenter: Farzad Beizaei, École de technologie supérieure, Canada

A194 (Fri-AM)

Hierarchical Anatomy-Aware Guidance for Brain Tissue Microstructure Reconstruction from T1-weighted MRI
Authors: Yuxing Li, Chuyang Ye
Presenter: Chuyang Ye, Beijing Institute of Technology, China

A199 (Fri-AM)

T2I-Diff: fMRI Signal Generation via Time-Frequency Image Transform and Classifier-Free Denoising Diffusion Models
Authors: Hwa Hui Tew, Junn Yong Loo, Yee-Fan Tan, Xinyu Tang, Hernando Ombao, Fuad Noman, Raphaël C.-W. Phan, Chee-Ming Ting
Presenter: Hwa Hui Tew, Monash University Malaysia, Malaysia

A204 (Fri-AM)

Instrument-Splatting: Controllable Photorealistic Reconstruction of Surgical Instruments Using Gaussian Splatting
Authors: Shuojue Yang, Zijian Wu, Mingxuan Hong, Qian Li, Daiyun Shen, Septimiu E. Salcudean, Yueming Jin
Presenter: Shuojue Yang, National University of Singapore, Singapore

A209 (Fri-AM)

Cascaded 3D Diffusion Models for Whole-body 3D 18-F FDG PET/CT synthesis from Demographics
Authors: Siyeop Yoon, Sifan Song, Pengfei Jin, Matthew Tivnan, Yujin Oh, Sekeun Kim, Dufan Wu, Xiang Li, Quanzheng Li
Presenter: Siyeop Yoon, Harvard Medical School, United States

A214 (Fri-AM)

Physics-Informed Implicit Neural Representations for Joint B0 Estimation and Echo Planar Imaging

Authors: Wenqi Huang, Nan Wang, Congyu Liao, Yimeng Lin, Mengze Gao, Daniel Rueckert, Kawin Setsompop
Presenter: Wenqi Huang, Technical University of Munich, Germany

A219 (Fri-AM)	Real Super-Resolution for Proximal Femur: Enhanced Computation of Structural Bone Metrics from Clinical CTs Authors: Niklas C. Koser, Marten J. Finck, Felix N. von Brackel, Benjamin Ondruschka, Sören Pirk, Claus-C. Glüer Presenter: Niklas C. Koser, Kiel University and University Hospital Schleswig-Holstein, Germany
A224 (Fri-AM)	Multifrequency Neural Network-based Wave Inversion in MR Elastography Authors: Héloïse Bustin, Tom Meyer, Jakob Jordan, Lars Walczak, Heiko Tzschätzsch, Ingolf Sack, Anja Hennemuth Presenter: Héloïse Bustin, Charité - Universitätsmedizin Berlin, Germany
A229 (Fri-AM)	LDDMEm: Large Deformation Diffeomorphic Metric Embedding Decoupling Shape Analysis from Image Registration Authors: Greg M. Fleishman, P. Thomas Fletcher Presenter: Greg M. Fleishman, Howard Hughes Medical Institute, Janelia Research Campus, United States
A234 (Fri-AM)	OsteoOpt: A Bayesian Optimization Framework for Enhancing Bone Union Likelihood in Mandibular Reconstruction Surgery Authors: Hamidreza Aftabi, John E. Lloyd, Amanda Ding, Benedikt Sagl, Eitan Prisman, Antony Hodgson, Sidney Fels Presenter: Hamidreza Aftabi, University of British Columbia, Canada
A239 (Fri-AM)	EFMS-Net: Efficient Frequency-Enhanced Multi-Scale Network for Ischemic Stroke Segmentation Authors: Jie Yang, Shaowei Shen, Xuwei Fan, Ning Chen, Zhibin Gao, Lianfen Huang, Yihong Zhan Presenter: Jie Yang, Xiamen University, China
A244 (Fri-AM)	Q-space Guided Collaborative Attention Translation Network for Flexible Diffusion-Weighted Images Synthesis Authors: Pengli Zhu, Yingji Fu, Nanguang Chen, Anqi Qiu Presenter: Pengli Zhu, Hong Kong Polytechnic University, Hong Kong SAR
A249 (Fri-AM)	A Unified Continuous Staging Framework for Alzheimer’s Disease and Lewy Body Dementia via Hierarchical Anatomical Features Authors: Tong Chen, Minheng Chen, Jing Zhang, Yan Zhuang, Chao Cao, Xiaowei Yu, Yanjun Lyu, Lu Zhang, Li Su, Tianming Liu, Dajiang Zhu Presenter: Tong Chen, University of Texas at Arlington, United States
A254 (Fri-AM)	ReSeg-UNet: A Reconstruction-Guided Optimization Framework for Enhanced Medical Image Segmentation Authors: Lin Li, Dong Tang, Xiaowen Chu, Xiaofei Yang, Fei Yu Presenter: Lin Li, Guangzhou University, China
A259 (Fri-AM)	MGG-Net: A Multi-Modal Feature Extraction and Global-Aware Feature Graph-Based Deep Learning Network for MGMT Status Classification in Glioma Authors: Haoyang Liu, Yuwen Zeng, Xiaoyong Zhang, Wentong Zhou, Arata Nagai, Masayuki Kanamori, Hidenori Endo, Noriyasu Homma Presenter: Haoyang Liu, Tohoku University, Japan
A264 (Fri-AM)	Forget-MI: Machine Unlearning for Forgetting Multimodal Information in Healthcare Settings Authors: Shahad Hardan, Darya Taratynova, Abdelmajid Essofi, Karthik Nandakumar, Mohammad Yaqub Presenter: Shahad Hardan, Mohamed Bin Zayed University of Artificial Intelligence, United Arab Emirates
A269 (Fri-AM)	TRACE: Temporally Reliable Anatomically-Conditioned 3D CT Generation with Enhanced Efficiency Authors: Minye Shao, Xingyu Miao, Haoran Duan, Zeyu Wang, Jingkun Chen, Yawen Huang, Xian Wu, Jingjing Deng, Yang Long, Yefeng Zheng Presenter: Minye Shao, Durham University, United Kingdom
A274 (Fri-AM)	Physics-driven Signal Regularization in Diffusion Models for Multi-contrast MR Image Synthesis Authors: Yejee Shin, Yunsu Byeon, Geonhui Son, Hanbyol Jang, Dosik Hwang, Sewon Kim Presenter: Yejee Shin, Yonsei University, Republic of Korea
A279 (Fri-AM)	Parameter-Efficient Fine-Tuning of 3D DDPM for MRI Image Generation Using Tensor Networks Authors: Binghua Li, Ziqing Chang, Tong Liang, Chao Li, Toshihisa Tanaka, Shigeki Aoki, Qibin Zhao, Zhe Sun

Presenter: Binghua Li, Tokyo University of Agriculture and Technology, Japan

- A284 (Fri-AM)

SOFA: Deep Learning Framework for Simulating and Optimizing Atrial Fibrillation Ablation

Authors: Yunsung Chung, Chanhoo Lim, Ghassan Bidaoui, Christian Massad, Nassir Marrouche, Jihun Hamm

Presenter: Yunsung Chung, Tulane University, United States
- A289 (Fri-AM)

DIGS: Dynamic CBCT Reconstruction using Deformation-Informed 4D Gaussian Splatting and a Low-Rank Free-Form Deformation Model

Authors: Yuliang Huang, Imraj Singh, Thomas Joyce, Kris Thielemans, Jamie R. McClelland

Presenter: Yuliang Huang, University College London, United Kingdom
- A294 (Fri-AM)

MSDG-StyleNet: Multi-source Unsupervised Domain-Generalized CBCT-to-CT Translation with Style-Consistent Disentangled Representations

Authors: Xin Long, Xinrui Liu, Fan Gan

Presenter: Xin Long, Nanchang University, China
- A299 (Fri-AM)

Temporal Neural Cellular Automata: Application to modeling of contrast enhancement in breast MRI

Authors: Daniel M. Lang, Richard Osuala, Veronika Spieker, Karim Lekadir, Rickmer Braren, Julia A. Schnabel

Presenter: Daniel Lang, Helmholtz Munich, Germany
- A304 (Fri-AM)

Faster, Self-Supervised Super-Resolution for Anisotropic Multi-View MRI Using a Sparse Coordinate Loss

Authors: Maja Schlereth, Moritz Schillinger, Katharina Breininger

Presenter: Maja Schlereth, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
- A309 (Fri-AM)

FDF-VQVAE: A Frequency Disentanglement and Fusion Learning Framework for Multi-Sequence MRI Enhancement

Authors: Xinghe Xie, Luyi Han, Yue Sun, Chi Kin Lam, Jian Zheng, Tong Tong, Wei Ke, Chan-Tong Lam, Tao Tan

Presenter: Xinghe Xie, Macao Polytechnic University, China
- A314 (Fri-AM)

Causality-driven Spatio-temporal Generator for Multi-phase Contrast-enhanced CT Synthesis

Authors: Qikui Zhu, Hao Wu, Yanyan Zhang, Shuo Li

Presenter: Qikui Zhu, Case Western Reserve University, United States
- A319 (Fri-AM)

Anatomy-Conserving Unpaired CBCT-to-CT Translation via Schrödinger Bridge

Authors: Ke Shi, Song Ouyang, Gang Liu, Yong Luo, Kehua Su, Zhiwen Liang, Bo Du

Presenter: Ke Shi, Wuhan University, China
- A324 (Fri-AM)

MedDiff-FT: Data-Efficient Diffusion Model Fine-tuning with Structural Guidance for Controllable Medical Image Synthesis

Authors: Jianhao Xie, Ziang Zhang, Zhenyu Weng, Yuesheng Zhu, Guibo Luo

Presenter: Jianhao Xie, Peking University, China
- A329 (Fri-AM)

Dynamic-Aware Spatio-temporal Representation Learning for Dynamic MRI Reconstruction

Authors: Dayoung Baik, Jaejun Yoo

Presenter: Dayoung Baik, Ulsan National Institute of Science and Technology, Republic of Korea
- A334 (Fri-AM)

Oblique Genomics Mixture of Experts: Prediction of Brain Disorder With Aging-Related Changes of Brain’s Structural Connectivity Under Genomic Influences

Authors: Yanjun Lyu, Jing Zhang, Lu Zhang, Wei Ruan, Tianming Liu, Dajiang Zhu

Presenter: Dajiang Zhu, University of Texas at Arlington, United States
- A339 (Fri-AM)

Accelerated Free-Breathing 5D Multi-Echo Respiratory Motion-Resolved R2*, PDFF, and QSM Using Novel Composite Total Variation

Authors: MungSoo Kang, Or Alus, Youngwook Kee

Presenter: Youngwook Kee, Stony Brook University, United States
- A344 (Fri-AM)

DisDiff: Disentanglement Diffusion Network for MR Imaging Translation

Authors: Yipin Zhang, Ziqi Yu, Xiang Zhang, Shengjie Zhang, Xiang Chen, Haibo Yang, Xiao-Yong Zhang

Presenter: Yipin Zhang, Fudan University, China
- A349 (Fri-AM)

MOST: MR reconstruction Optimization for multiple downStream Tasks via continual learning

Authors: Hwihun Jeong, Se Young Chun, Jongho Lee

Presenter: Hwihun Jeong, Seoul National University, Republic of Korea

A354 (Fri-AM)	4D CardioSynth: Synthesising Dynamic Virtual Heart Populations through Spatiotemporal Disentanglement <i>Authors: Haoran Dou, Jinghan Huang, Arezoo Zakeri, Zherui Zhou, Tingting Mu, Jinming Duan, Alejandro F. Frangi</i> <i>Presenter: Haoran Dou, University of Manchester, United Kingdom</i>
A359 (Fri-AM) Paper Highlight	Cross-view Generalized Diffusion Model for Sparse-view CT Reconstruction <i>Authors: Jixiang Chen, Yiqun Lin, Yi Qin, Hualiang Wang, Xiaomeng Li</i> <i>Presenter: Jixiang Chen, The Hong Kong University of Science and Technology, Hong Kong SAR</i>
A361 (Fri-AM)	Sim-to-Real Transformer-Based Shape Reconstruction for Automated Orthopedic Fracture Reduction Planning <i>Authors: Sutuke Yibulayimu, Yanzhen Liu, Yudi Sang, Gang Zhu, Hui Li, Hao Lu, Chunpeng Zhao, Xinbao Wu, Yu Wang</i> <i>Presenter: Yanzhen Liu, Beihang University, China</i>
A366 (Fri-AM)	Steerable Anatomical Shape Synthesis with Implicit Neural Representations <i>Authors: Bram de Wilde, Max T. Rietberg, Guillaume Lajoinie, Jelmer M. Wolterink</i> <i>Presenter: Jelmer Wolterink, University of Twente, The Netherlands</i>
A373 (Fri-AM)	Coarse-to-Fine Medical Image Translation by Incorporating Deterministic Guidance and Probabilistic Refinement <i>Authors: Hongnian Tian, Tianxu Lv, Jiansong Fan, Delin Pan, Lihua Li, Xiang Pan</i> <i>Presenter: Hongnian Tian, Jiangnan University, China</i>
A378 (Fri-AM) Paper Highlight	PathVG: A New Benchmark and Dataset for Pathology Visual Grounding <i>Authors: Chunlin Zhong, Shuang Hao, Junhua Wu, Xiaona Chang, Jiwei Jiang, Xiu Nie, He Tang, Xiang Bai</i> <i>Presenters: Chunlin Zhong and Shuang Hao, Huazhong University of Science and Technology, China</i>
B4 (Fri-AM) Paper Highlight	Towards Markerless Intraoperative Tracking of Deformable Spine Tissue <i>Authors: Connor Daly, Elettra Marconi, Marco Riva, Jinendra Ekanayake, Daniel S. Elson, Ferdinando Rodriguez y Baena</i> <i>Presenter: Connor Daly, Imperial College London, United Kingdom</i>
B9 (Fri-AM)	Automatic Deep Deformable Registration using Domain Adaptation and Run-Time Optimisation <i>Authors: Emilien Gadoux, Adrien Bartoli</i> <i>Presenter: Emilien Gadoux, Institut Pascal, France</i>
B14 (Fri-AM) Paper Highlight	ClipGS: Clippable Gaussian Splatting for Interactive Cinematic Visualization of Volumetric Medical Data <i>Authors: Chengkun Li, Yuqi Tong, Kai Chen, Zhenya Yang, Ruiyang Li, Shi Qiu, Jason Ying-Kuen Chan, Pheng-Ann Heng, Qi Dou</i> <i>Presenter: Chengkun Li, The Chinese University of Hong Kong, Hong Kong SAR</i>
B19 (Fri-AM)	Conformal forecasting for surgical instrument trajectory <i>Authors: Sara Sangalli, Gary Sarwin, Ertunc Erdil, Carlo Serra, Alessandro Carretta, Victor Staartjes, Ender Konukoglu</i> <i>Presenter: Sara Sangalli, ETH Zürich, Switzerland</i>
B24 (Fri-AM)	Surgical Action Planning with Large Language Models <i>Authors: Mengya Xu, Zhongzhen Huang, Jie Zhang, Xiaofan Zhang, Qi Dou</i> <i>Presenter: Mengya Xu, The Chinese University of Hong Kong, Hong Kong SAR</i>
B29 (Fri-AM) Paper Highlight	Endo-FAST3r: Endoscopic Foundation model Adaptation for Structure from motion <i>Authors: Mona Sheikh Zeinoddin, Mobarak I. Hoque, Zafer Tandogdu, Greg L. Shaw, Matthew J. Clarkson, Evangelos B. Mazomenos, Danail Stoyanov</i> <i>Presenter: Mona Sheikh Zeinoddin, University College London, United Kingdom</i>
B34 (Fri-AM)	CurConMix: A Curriculum Contrastive Learning Framework for Enhancing Surgical Action Triplet Recognition <i>Authors: Yongjun Jeon, Jongmin Shin, Seonmin Park, Bogeun Kim, Kanggil Park, Namkee Oh, Kyu-Hwan Jung</i> <i>Presenter: Yongjun Jeon, Sungkyunkwan University, Republic of Korea</i>
B39 (Fri-AM)	Motion-Boundary-Driven Unsupervised Surgical Instrument Segmentation in Low-Quality Optical Flow <i>Authors: Yang Liu, Peiran Wu, Jiayu Huo, Gongyu Zhang, Zhen Yuan, Christos Bergeles, Rachel Sparks, Prokar Dasgupta, Alejandro Granados, Sebastien Ourselin</i> <i>Presenter: Yang Liu, King's College London, United Kingdom</i>

B44 (Fri-AM)	Enforcing Geometric Constraints of Surface Normal and Pose for Self-supervised Monocular Depth Estimation on Laparoscopic Images <i>Authors: Wenda Li, Yuichiro Hayashi, Masahiro Oda, Takayuki Kitasaka, Kazunari Misawa, Kensaku Mori</i> <i>Presenter: Wenda Li, Naogya University, Japan</i>
B49 (Fri-AM)	RadGS-Reg: Registering Spine CT with Biplanar X-rays via Joint 3D Radiative Gaussians Reconstruction and 3D/3D Registration <i>Authors: Ao Shen, Xueming Fu, Junfeng Jiang, Qiang Zeng, Ye Tang, Zhengming Chen, Luming Nong, Feng Wang, S. Kevin Zhou</i> <i>Presenter: Ao Shen, Hohai University, China</i>
B54 (Fri-AM)	Smarter Self-Distillation: Optimizing the Teacher for Surgical Video Applications <i>Authors: Amine Yamlahi, Piotr Kalinowski, Patrick Godau, Rayan Younis, Martin Wagner, Beat Müller, Lena Maier-Hein</i> <i>Presenter: Amine Yamlahi, German Cancer Research Center (DKFZ), Germany</i>
B59 (Fri-AM)	SurgTPGS: Semantic 3D Surgical Scene Understanding with Text Promptable Gaussian Splatting <i>Authors: Yiming Huang, Long Bai, Beilei Cui, Kun Yuan, Guankun Wang, Mobarak I. Hoque, Nicolas Padoy, Nassir Navab, Hongliang Ren</i> <i>Presenter: Yiming Huang, The Chinese University of Hong Kong, Hong Kong SAR</i>
B64 (Fri-AM)	EndoDAV: Depth Any Video in Endoscopy with Spatiotemporal Accuracy <i>Authors: Zanwei Zhou, Chen Yang, Piao Yang, Xiaokang Yang, Wei Shen</i> <i>Presenter: Zanwei Zhou, Shanghai Jiao Tong University, China</i>
B69 (Fri-AM)	Pattern-Anchored Adaptive Prototype Learning for Gastroscopic Lesion Detection and Beyond <i>Authors: Xuanye Zhang, Xiaoqing Hu, Guanbin Li, Si-Qi Liu, Xiang Wan, Yuanhuan Xiong</i> <i>Presenter: Xuanye Zhang, Shenzhen Research Institute of Big Data, CUHK-Shenzhen, China</i>
B74 (Fri-AM)	Recognizing Surgical Phases Anywhere: Few-Shot Test-time Adaptation and Task-graph Guided Refinement <i>Authors: Kun Yuan, Tingxuan Chen, Shi Li, Joël L. Lavanchy, Christian Heiliger, Ege Özsoy, Yiming Huang, Long Bai, Nassir Navab, Vinkle Srivastav, Hongliang Ren, Nicolas Padoy</i> <i>Presenter: Kun Yuan, University of Strasbourg, France & Technical University of Munich, Germany</i>
B79 (Fri-AM)	MedAgentSim: Self-Evolving Multi-Agent Simulations for Realistic Clinical Interactions <i>Authors: Mohammad Almansoori, Komal Kumar, Hisham Cholakkal</i> <i>Presenter: Mohammad Almansoori, Mohamed bin Zayed University of Artificial Intelligence, United Arab Emirates</i>
B84 (Fri-AM)	D4Recon: Dual-stage Deformation and Dual-scale Depth Guidance for Endoscopic Reconstruction <i>Authors: Hritam Basak, Zhaozheng Yin</i> <i>Presenter: Hritam Basak, Stony Brook University, United States</i>
B89 (Fri-AM)	Endo-GSMT: Endoscopic Monocular Scene Reconstruction with Dynamic Gaussian Splatting and Motion Tracking <i>Authors: Hao Gou, Changmiao Wang, Jiahao Yang, Yaoqun Liu, Fucang Jia, Deqiang Xiao, Feiwei Qin, Huoling Luo</i> <i>Presenter: Hao Gou, Hangzhou Dianzi University, China</i>
B94 (Fri-AM)	CAT-SG: A Large Dynamic Scene Graph Dataset for Fine-Grained Understanding of Cataract Surgery <i>Authors: Felix Holm, Gözde Ünver, Ghazal Ghazaei, Nassir Navab</i> <i>Presenter: Felix Holm, Technical University of Munich, Germany</i>
B99 (Fri-AM)	Marker-less Head Pose Tracking for Image-guided Cerebral Artery Navigation <i>Authors: Qiuying Wang, Pandeng Zhang, Dewei Chen, Hao Tang, Chang Liu, Jia Liu</i> <i>Presenter: Qiuying Wang, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
B104 (Fri-AM)	Phase-Informed Tool Segmentation for Manual Small-Incision Cataract Surgery <i>Authors: Bhuvan Sachdeva, Naren Akash, Tajamul Ashraf, Simon Müller, Thomas Schultz, Maximilian W. M. Wintergerst, Niharika Singri, Kaushik Murali, Mohit Jain</i> <i>Presenter: Thomas Schultz, University of Bonn, Germany</i>
B109 (Fri-AM)	SG2VID: Scene Graphs Enable Fine-Grained Control for Video Synthesis <i>Authors: Ssharviyen Kumar Sivakumar, Yannik Frisch, Ghazal Ghazaei, Anirban Mukhopadhyay</i> <i>Presenter: Ssharviyen Kumar Sivakumar, Technische Universität Darmstadt, Germany</i>

B114 (Fri-AM)	Weakly-Supervised 2D/3D Image Registration via Differentiable X-ray Rendering and ROI Segmentation <i>Authors: Yuxin Cui, Max Q.-H. Meng, Zhe Min</i> <i>Presenter: Zhe Min, Shandong University, China</i>
B119 (Fri-AM)	Operating Room Workflow Analysis via Reasoning Segmentation over Digital Twins <i>Authors: Yiqing Shen, Chenjia Li, Bohan Liu, Cheng-Yi Li, Tito Porras, Mathias Unberath</i> <i>Presenter: Mathias Unberath, Johns Hopkins University, United States</i>
B124 (Fri-AM)	Self-adaptive Vision-Language Model for 3D Segmentation of Pulmonary Artery and Vein <i>Authors: Xiaotong Guo, Deqian Yang, Dan Wang, Ying Zhu, Haochen Zhao, Yuan Li, Zhilin Sui, Tao Zhou, Lijun Zhang, Hui Meng, Yanda Meng</i> <i>Presenter: Yanda Meng, University of Exeter, United Kingdom</i>
B129 (Fri-AM)	FSA-Net: Fractal-driven Synergistic Anatomy-aware Network for Segmenting White Line of Toldt in Laparoscopic Images <i>Authors: Kecheng Wu, Zhaohu Xing, Zerong Cai, Feng Gao, Wenxue Li, Lei Zhu</i> <i>Presenter: Kecheng Wu, The Hong Kong University of Science and Technology (Guangzhou), China</i>
B134 (Fri-AM)	Frequency-domain Multi-modal Fusion for Language-guided Medical Image Segmentation <i>Authors: Bo Yu, Jianhua Yang, Zetao Du, Yan Huang, Chenglong Li, Liang Wang</i> <i>Presenter: Bo Yu, Anhui University, China</i>
B139 (Fri-AM)	BREA-Depth: Bronchoscopy Realistic Airway-geometric Depth Estimation <i>Authors: Francis Xiatian Zhang, Emile Mackute, Mohammadreza Kasaei, Kevin Dhaliwal, Robert Thomson, Mohsen Khadem</i> <i>Presenter: Francis Xiatian Zhang, The University of Edinburgh, United Kingdom</i>
B144 (Fri-AM)	Towards Holistic Surgical Scene Graph <i>Authors: Jongmin Shin, Enki Cho, Ka Young Kim, Jung Yong Kim, Seong Tae Kim, Namkee Oh</i> <i>Presenter: Jongmin Shin, Samsung Medical Center, Republic of Korea</i>
B149 (Fri-AM)	Localization Lens for Improving Medical Vision-Language Models <i>Authors: Hasan Farooq, Murtaza Taj, Mehwish Nasim, Arif Mahmood</i> <i>Presenter: Hasan Farooq, Lahore University of Management Sciences, Pakistan</i>
B154 (Fri-AM)	World Model for AI Autonomous Navigation in Mechanical Thrombectomy <i>Authors: Harry Robertshaw, Han-Ru Wu, Alejandro Granados, Thomas C. Booth</i> <i>Presenter: Harry Robertshaw, King's College London, United Kingdom</i>
B159 (Fri-AM)	Semantic Scene Graph for Ultrasound Image Explanation and Scanning Guidance <i>Authors: Xuesong Li, Danyang Huang, Yameng Zhang, Nassir Navab, Zhongliang Jiang</i> <i>Presenter: Xuesong Li, Technical University of Munich, Germany</i>
B164 (Fri-AM) Paper Highlight	Towards Globally Predictable k-Space Interpolation: A White-box Transformer Approach <i>Authors: Chen Luo, Qiyu Jin, Taofeng Xie, Xuemei Wang, Huayu Wang, Congcong Liu, Liming Tang, Guoqing Chen, Zhuo-Xu Cui, Dong Liang</i> <i>Presenter: Chen Luo, Inner Mongolia University, China</i>
B169 (Fri-AM)	EndoFlow-SLAM: Real-Time Endoscopic SLAM with Flow-Constrained Gaussian Splatting <i>Authors: Taoyu Wu, Yiyi Miao, Zhuoxiao Li, Haocheng Zhao, Kang Dang, Jionglong Su, Limin Yu, Haoang Li</i> <i>Presenter: Taoyu Wu, Xi'an Jiaotong-Liverpool University, China</i>
B174 (Fri-AM) Paper Highlight	EndoMamba: An Efficient Foundation Model for Endoscopic Videos via Hierarchical Pre-training <i>Authors: Qingyao Tian, Huai Liao, Xinyan Huang, Bingyu Yang, Dongdong Lei, Sebastien Ourselin, Hongbin Liu</i> <i>Presenter: Qingyao Tian, Institute of Automation, Chinese Academy of Sciences, China</i>
B179 (Fri-AM)	Asymmetric Matching in Abdominal Lymph Nodes of Follow-up CT Scans <i>Authors: Yiji Mao, Yi Zhang, Xinyu Zou, Yuling Zheng, Hao Huang, Haixian Zhang</i> <i>Presenter: Haixian Zhang, Sichuan University, China</i>
B184 (Fri-AM)	Navigational Bronchoscopy in Critical Care via End-to-End Pose Regression <i>Authors: Emile Mackute, Francis Xiatian Zhang, Kevin Dhaliwal, Mohsen Khadem</i> <i>Presenter: Emile Mackute, The University of Edinburgh, United Kingdom</i>
B189 (Fri-AM)	6D Object Pose Tracking for Orthopedic Surgical Training using Visual-Inertial Sensor Fusion <i>Authors: Maarten Hogenkamp, Tobias Stauffer, Quentin Lohmeyer, Mirko Meboldt</i> <i>Presenter: Maarten Hogenkamp, ETH Zürich, Switzerland</i>

B194 (Fri-AM)	Automated Integration of Surgical Implants into Digital Twins for Trauma Surgery <i>Authors: Tobias Stauffer, Manuel Reber, Léon Fellmann, Reto Babst, Mirko Meboldt, Quentin Lohmeyer</i> <i>Presenter: Tobias Stauffer, ETH Zürich, Switzerland</i>
B199 (Fri-AM) Paper Highlight	Multi-modal Representations for Fine-grained Multi-label Critical View of Safety Recognition <i>Authors: Britty Baby, Vinkle Srivastav, Pooja P. Jain, Kun Yuan, Pietro Mascagni, Nicolas Padoy</i> <i>Presenter: Britty Baby, University of Strasbourg, France</i>
B204 (Fri-AM)	ICE-PoGO: Improving Dynamic Panoramic Reconstruction of 4D ICE Imaging through Pose Graph Optimization <i>Authors: Sebastian Herz, Magdalena Wysocki, Felix Tristram, Julia Hickler, Lydia Neary-Zajiczek, Christoph Hennemersperger, Nassir Navab, Stefan Wörz</i> <i>Presenter: Sebastian Herz, LUMA Vision, Germany</i>
B209 (Fri-AM)	CholecMamba: A Mamba-based Multimodal Reasoning Model for Cholecystectomy Surgery <i>Authors: Zipei Wang, Sitian Pan, Mengjie Fang, Ruofan Zhang, Jie Tian, Di Dong</i> <i>Presenter: Zipei Wang, Key Laboratory of Molecular Imaging, Institute of Automation, Chinese Academy of Sciences, China</i>
B214 (Fri-AM) Paper Highlight	A Novel Framework for Integrating 3D Ultrasound into Percutaneous Liver Tumour Ablation <i>Authors: Shuwei Xing, Derek W. Cool, David Tessier, Elvis C.S. Chen, Terry M. Peters, Aaron Fenster</i> <i>Presenter: Shuwei Xing, Robarts Research Institute & Western University, Canada</i>
B219 (Fri-AM)	Sparse-XM: Spine Pose Adjustment with RGB-D Bone Segmentation via Cross-Modality Label Transfer <i>Authors: William R. Warner, Indrani Bhattacharya, Linton T. Evans, Sohail K. Mirza, Keith D. Paulsen, Xiaoyao Fan</i> <i>Presenter: William Warner, Dartmouth College, United States</i>
B224 (Fri-AM)	Unsupervised Structure-Geometric Consistency for Monocular Endoscopic Depth Overestimation <i>Authors: Wenkang Fan, Enqi Qiu, Hongzhi Xu, Xiongbiao Luo</i> <i>Presenter: Wenkang Fan, Xiamen University, China</i>
B229 (Fri-AM)	T2GS: Comprehensive Reconstruction of Dynamic Surgical Scenes with Gaussian Splatting <i>Authors: Jinjing Xu, Chenyang Li, Peng Liu, Micha Pfeiffer, Liwen Liu, Reuben Docea, Martin Wagner, Stefanie Speidel</i> <i>Presenter: Jinjing Xu, NCT, Dresden, Germany</i>
B234 (Fri-AM)	Surgical-MambaLLM: Mamba2-enhanced Multimodal Large Language Model for VQLA in Robotic Surgery <i>Authors: Pengfei Hao, Hongqiu Wang, Shuaibo Li, Zhaohu Xing, Guang Yang, Kaishun Wu, Lei Zhu</i> <i>Presenter: Pengfei Hao, The Hong Kong University of Science and Technology (Guangzhou), China</i>
B239 (Fri-AM)	StepAL: Step-aware Active Learning for Cataract Surgical Videos <i>Authors: Nisarg A. Shah, Bardia Safaei, Shameema Sikder, S. Swaroop Vedula, Vishal M. Patel</i> <i>Presenter: Patel Vishal, Johns Hopkins University, United States</i>
B244 (Fri-AM)	Untangling Vascular Trees for Surgery and Interventional Radiology <i>Authors: Guillaume Houry, Tom Boeken, Stéphanie Allasonnière, Jean Feydy</i> <i>Presenter: Guillaume Houry, Inria Paris, France</i>
B249 (Fri-AM) Paper Highlight	Endoscopic Artifact Inpainting for Improved Endoscopic Image Segmentation <i>Authors: Zhangyuan Yu, Chenlin Du, Hongrui Liang, Xiuqi Zheng, Zeyao Ma, Mingjun Wu, Mingwu Ao, Qicheng Lao</i> <i>Presenter: Qicheng Lao, Beijing University of Posts and Telecommunications, China</i>
B254 (Fri-AM)	Synthesizing Delayed-Phase Contrast-Enhanced Breast MR Images from Early-Phase Images Using an Iterative Deep Network <i>Authors: Woojin Chung, Junghwa Kang, Ga Eun Park, Sung Hun Kim, Yoonho Nam</i> <i>Presenter: Woojin Chung, Hankuk University of Foreign Studies, Republic of Korea</i>
B259 (Fri-AM)	Indepth Integration of Multi-granularity Features from Dual-modal for Disease Classification <i>Authors: Yeli Wu, Xiaocai Zhang, Weiwen Wu, Haiteng Jiang, Chao An, Jianjia Zhang</i> <i>Presenter: Yeli Wu, Shenzhen Campus of Sun Yat-sen University, China</i>
B264 (Fri-AM)	C-NCA : Chained Neural Cellular Automata for Fast and Accurate Thermal Ablation Estimation <i>Authors: Jonas Mehtali, Juan Manuel Verde, Caroline Essert</i> <i>Presenter: Jonas Mehtali, University of Strasbourg, France</i>

B269 (Fri-AM)	Veriserum: A dual-plane fluoroscopic dataset with knee implant phantoms for deep learning in medical imaging <i>Authors: Jinhao Wang, Florian Vogl, Pascal Schütz, Saša Ćuković, William R. Taylor</i> <i>Presenter: Jinhao Wang, ETH Zürich, Switzerland</i>
Paper Highlight	
B274 (Fri-AM)	Paired Image Generation with Diffusion-Guided Diffusion Models <i>Authors: Haoxuan Zhang, Wenju Cui, Yuzhu Cao, Tao Tan, Jie Liu, Yunsong Peng, Jian Zheng</i> <i>Presenter: Wenju Cui, University of Science and Technology of China, China</i>
B279 (Fri-AM)	Class-Conditioned Image Synthesis with Diffusion for Imbalanced Diabetic Retinopathy Grading <i>Authors: Haochen Zhang, Anna Heinke, Ines D. Nagel, Dirk-Uwe G. Bartsch, William R. Freeman, Truong Q. Nguyen, Cheolhong An</i> <i>Presenter: Truong Nguyen, University of California San Diego, United States</i>
B284 (Fri-AM)	Supervised Diffusion-Model-Based PET Image Reconstruction <i>Authors: George Webber, Alexander Hammers, Andrew P. King, Andrew J. Reader</i> <i>Presenter: George Webber, King's College London, United Kingdom</i>
B289 (Fri-AM)	Domain-Agnostic Stroke Lesion Segmentation Using Physics-Constrained Synthetic Data <i>Authors: Liam Chalcraft, Jenny Crinion, Cathy J. Price, John Ashburner</i> <i>Presenter: Liam Chalcraft, University College London, United Kingdom</i>
Paper Highlight	
B294 (Fri-AM)	Distribution-Guided Multi-Tracer Brain PET Synthesis from Structural MRI with Class-Conditioned Weighted Diffusion <i>Authors: Minhui Yu, David S. Lalush, Derek C. Monroe, Kelly S. Giovanello, Weili Lin, Pew-Thian Yap, Jason P. Mihalik, Mingxia Liu</i> <i>Presenter: Qianqian Wang, The University of North Carolina at Chapel Hill, United States</i>
B299 (Fri-AM)	Super-resolution and segmentation of 4D Flow MRI using Deep learning and Weighted Mean Frequencies <i>Authors: Simon Perrin, Sébastien Levilly, Harold Mouchère, Jean-Michel Serfaty</i> <i>Presenter: Simon Perrin, Nantes Université / LS2N, France</i>
B304 (Fri-AM)	Tackling Hallucination from Conditional Models for Medical Image Reconstruction with DynamicDPS <i>Authors: Seunghoi Kim, Henry F. J. Tregidgo, Matteo Figini, Chen Jin, Sarang Joshi, Daniel C. Alexander</i> <i>Presenter: Seunghoi Kim, University College London, United Kingdom</i>
B309 (Fri-AM)	GLCP: Global-to-Local Connectivity Preservation for Tubular Structure Segmentation <i>Authors: Feixiang Zhou, Zhuangzhi Gao, He Zhao, Jianyang Xie, Yanda Meng, Yitian Zhao, Gregory Y.H. Lip, Yalin Zheng</i> <i>Presenter: Feixiang Zhou, University of Liverpool, United Kingdom</i>
Paper Highlight	
B314 (Fri-AM)	Analysis of Image-and-Text Uncertainty Propagation in Multimodal Large Language Models with Cardiac MR-Based Applications <i>Authors: Yucheng Tang, Yunguan Fu, Weixi Yi, Yipei Wang, Daniel C. Alexander, Rhodri Davies, Yipeng Hu</i> <i>Presenter: Yucheng Tang, University College London, United Kingdom</i>
B319 (Fri-AM)	Improving Autism Detection with Multimodal Behavioral Analysis <i>Authors: William Saakyan, Matthias Norden, Lola Eversmann, Simon Kirsch, Muyu Lin, Simon Guendelman, Isabel Dziobek, Hanna Drimalla</i> <i>Presenter: William Saakyan, Bielefeld University, Germany</i>
B324 (Fri-AM)	Contrast Flow Pattern and Cross-Phase Specificity-Aware Diffusion Model for NCCT-to-Multiphase CECT Synthesis <i>Authors: Kaiyi Zheng, Mu Huang, Xinming Li, Jianhua Ma, Qianjin Feng, Wei Yang, Liming Zhong</i> <i>Presenter: Kaiyi Zheng, Southern Medical University, China</i>
B329 (Fri-AM)	Unsupervised OCT image interpolation using deformable registration and generative models <i>Authors: Shuwen Wei, Samuel W. Remedios, Zhangxing Bian, Shimeng Wang, Junyu Chen, Yihao Liu, Bruno Jedynak, Tin Y. A. Liu, Shiv Saidha, Peter A. Calabresi, Jerry L. Prince, Aaron Carass</i> <i>Presenter: Samuel Remedios, Johns Hopkins University, United States</i>
B334 (Fri-AM)	Probabilistic Prior-Guided Anatomical Alignment for MRI Super-Resolution <i>Authors: Yiwen Luo, Xiaoying Tang, Yixuan Yuan</i> <i>Presenter: Yiwen Luo, City University of Hong Kong, China</i>
C4 (Fri-AM)	Blaze3DM: Integrating Triplane Representation with Diffusion for Solving 3D Inverse Problems in Medical Imaging

Authors: Jia He, Bonan Li, Ge Yang, Ziwen Liu
Presenter: Jia He, Institute of Automation, Chinese Academy of Sciences, China

- C9 (Fri-AM) **Diffusion-based Multi-modal MR Fusion for TOF-MRA Image Synthesis**
Authors: Tianen Yu, Xinyu Song, Lei Xiang, Tao Zhou
Presenter: Tianen Yu, Nanjing University of Science and Technology, China
- C14 (Fri-AM) **High-Fidelity Unified One-to-Many Medical Image Synthesis via Text-Conditioned Latent Diffusion**
Authors: Youjian Zhang, Jian Huang, Jie Wang, Zezhou Li, Zhongya Wang, Guanqun Zhou, Zhicheng Zhang, Gang Yu
Presenter: Youjian Zhang, JancsiLab, JancsiTech, Hong Kong SAR
- C19 (Fri-AM) **RetiDiff: Diffusion-based Synthesis of Retinal OCT Images for Enhanced Segmentation**
Authors: Sicheng Li, Mai Dan, Yuhui Chu, Jiahui Yu, Yunpeng Zhao, Pengpeng Zhao
Presenter: Sicheng Li, Binjiang Institute of Zhejiang University, China
- C24 (Fri-AM) **Segmentor-guided Counterfactual Fine-Tuning for Locally Coherent and Targeted Image Synthesis**
Authors: Tian Xia, Matthew Sinclair, Andreas Schuh, Fabio De Sousa Ribeiro, Raghav Mehta, Rajat Rasal, Esther Puyol-Antón, Samuel Gerber, Kersten Petersen, Michiel Schaap, Ben Glocker
Presenter: Tian Xia, Imperial College London, United Kingdom
- C29 (Fri-AM) **MDPG: Multi-domain Diffusion Prior Guidance for MRI Reconstruction**
Authors: Lingtong Zhang, Mengdie Song, Xiaohan Hao, Huayu Mai, Bensheng Qiu
Presenter: Lingtong Zhang, University of Science and Technology of China, China
- C34 (Fri-AM) **Semi-Supervised Deformation-Free Image-to-Image Translation for Realistic CT Synthesis from CBCT**
Authors: Ji Yong Han, Su Yang, Sujeong Kim, Sunjung Kim, Sang-Heon Lim, Heejin Yun, Dahee Kim, Won-Jin Yi
Presenter: Ji Yong Han, Seoul National University, Republic of Korea
- C39 (Fri-AM) **Adapting Foundation Model for Dental Caries Detection with Dual-View Co-Training**
Authors: Tao Luo, Han Wu, Tong Yang, Dinggang Shen, Zhiming Cui
Presenter: Tao Luo, ShanghaiTech University, China
- C44 (Fri-AM) **Physics informed guided diffusion for accelerated multi-parametric MRI reconstruction**
Authors: Perla Mayo, Carolin M. Pirkel, Alin Achim, Bjoern Menze, Mohammad Golbabaee
Presenter: Perla Mayo, University of Bristol, United Kingdom
- C49 (Fri-AM) **Mesh4D: A Motion-Aware Multi-View Variational Autoencoder for 3D+t Mesh Reconstruction**
Authors: Mengyun Qiao, Jin Zheng, Weitong Zhang, Qiang Ma, Liu Li, Bernhard Kainz, Declan P. O'Regan, Paul M. Matthews, Steven Niederer, Wenjia Bai
Presenter: Mengyun Qiao, University College London, United Kingdom
- C54 (Fri-AM) **UNSURF: Uncertainty Quantification for Cortical Surface Reconstruction of Clinical Brain MRIs**
Authors: Karthik Gopinath, Raghav Mehta, Ben Glocker, Juan Eugenio Iglesias
Presenter: Raghav Mehta, Imperial College London, United Kingdom
- C59 (Fri-AM) **Sparse Reconstruction of Optical Doppler Tomography with Alternative State Space Model and Attention**
Authors: Zhenghong Li, Jiaxiang Ren, Wensheng Cheng, Yanzuo Liu, Congwu Du, Yingtian Pan, Haibin Ling
Presenter: Haibin Ling, Stony Brook University, United States
- C64 (Fri-AM) **Single-spoke Motion-compensated Dynamic 3D MRI Reconstruction via Neural Representation**
Authors: Lixuan Chen, James M. Balter, Liyue Shen, Jeong Joon Park
Presenter: Lixuan Chen, University of Michigan, United States
- C69 (Fri-AM) **Pathology-Aware Adaptive Watermarking for Text-Driven Medical Image Synthesis**
Authors: Chanyoung Kim, Dayun Ju, Jinyeong Kim, Woojung Han, Roberto Alcover-Couso, Seong Jae Hwang
Presenter: Chanyoung Kim, Yonsei University, Republic of Korea
- C74 (Fri-AM) **Predicting Radiation Therapy Response based on Dynamic Temporal Feature Difference Fusion from Longitudinal MRI**
Authors: Xinyu Hao, Hongming Xu, Qibin Zhang, Qi Xu, Xiaofeng Wang, Ilkka Polonen, Fengyu Cong
Presenter: Xinyu Hao, Dalian University of Technology, China
- C79 (Fri-AM) **WiD-PET: PET Image Reconstruction from Low-Dose Data Using a Wavelet-Informed Diffusion Model with Fast Inference**
Authors: Qingcheng Lyu, Tong Chen, Yiran Wang, Erjian Guo, Luping Zhou

Presenter: Luping Zhou, The University of Sydney, Australia

C84 (Fri-AM)	VQ-SCD: Vector Quantization Meets Unknown Scan Condition Self-supervised Low-Dose CT Denoising Authors: Bo Su, Jiabo Xu, Xiangyun Hu, Kai Deng, Jiancheng Li, Zhouxian Lu Presenter: Bo Su, Wuhan University, China
C89 (Fri-AM) Paper Highlight	VesselGPT: Autoregressive Modeling of Vascular Geometry Authors: Paula Feldman, Martin Sinnona, Claudio Delrieux, Viviana Siless, Emmanuel Iarussi Presenter: Paula Feldman, Universidad Torcuato Di Tella, Argentina
C94 (Fri-AM)	AVDM: Controllable Adversarial Diffusion Model for Vessel-to-Volume Synthesis Authors: Jian Dai, Wanchen Liu, Honghao Cui, Xiao Liu, Jiajun Wang, Zhiji Zheng, Daoying Geng Presenter: Jian Dai, Fudan University, China
C99 (Fri-AM)	Guiding Quantitative MRI Reconstruction with Phase-wise Uncertainty Authors: Haozhong Sun, Zhongsen Li, Chenlin Du, Haokun Li, Yajie Wang, Huijun Chen Presenter: Haozhong Sun, Tsinghua University, China
C104 (Fri-AM)	UltraTwin: Towards Cardiac Anatomical Twin Generation from Multi-view 2D Ultrasound Authors: Junxuan Yu, Yaofei Duan, Yuhao Huang, Yu Wang, Rongbo Ling, Weihao Luo, Ang Zhang, Jingxian Xu, Qiongying Ni, Yongsong Zhou, Binghan Li, Haoran Dou, Liping Liu, Yanfen Chu, Feng Geng, Zhe Sheng, Zhifeng Ding, Dingxin Zhang, Rui Huang, Yuhang Zhang, Xiaowei Xu, Tao Tan, Dong Ni, Zhongshan Gou, Xin Yang Presenter: Junxuan Yu, Shenzhen University, China
C109 (Fri-AM) Paper Highlight	Ultra-Low-Field MRI Enhancement via INR-Based Style Transfer Authors: Kh Tohidul Islam, Mevan Ekanayake, Zhaolin Chen Presenter: Zhaolin Chen, Monash University, Australia
C114 (Fri-AM)	Flow Matching for Medical Image Synthesis: Bridging the Gap Between Speed and Quality Authors: Milad Yazdani, Yasamin Medghalchi, Pooria Ashrafian, Ilker Hacihaliloglu, Dena Shahriari Presenter: Milad Yazdani, The University of British Columbia, Canada
C119 (Fri-AM)	NeRF-based CBCT Reconstruction needs Normalization and Initialization Authors: Zhuowei Xu, Han Li, Dai Sun, Zhicheng Li, Yujia Li, Qingpeng Kong, Zhiwei Cheng, Nassir Navab, S. Kevin Zhou Presenter: Zhuowei Xu, University of Science and Technology of China, China
C124 (Fri-AM)	Controllable Flow Matching for 3D Contrast-Enhanced Brain MRI Synthesis from Non-Contrast Scans Authors: Heng Chang, Yu Shang, Haifeng Wang, Yuxia Liang, Haoyu Wang, Fan Wang, Chen Niu, Chunfeng Lian Presenter: Chunfeng Lian, Xi'an Jiaotong University, China
C129 (Fri-AM) Paper Highlight	DC-Seg: Disentangled Contrastive Learning for Brain Tumor Segmentation with Missing Modalities Authors: Haitao Li, Ziyu Li, Yiheng Mao, Zhengyao Ding, Zhengxing Huang Presenter: Haitao Li, Zhejiang University, China
C134 (Fri-AM)	DuoDent: Tooth Generation using Dual-Stream Diffusion with Normal Consistency Authors: Doeyoung Kwon, Seongjun Kim, In-Seok Song, Seung Jun Baek Presenter: Doeyoung Kwon, Korea University, Republic of Korea
C139 (Fri-AM) Paper Highlight	InstructX2X: An Interpretable Local Editing Model for Counterfactual Medical Image Generation Authors: Hyungi Min, Taeseung You, Hangeul Lee, Yeongjae Cho, Sungzoon Cho Presenter: Hyungi Min, Seoul National University, Republic of Korea
C144 (Fri-AM) Paper Highlight	Unisyn: A Generative Foundation Model for Universal Medical Image Synthesis across MRI, CT and PET Authors: Yulin Wang, Honglin Xiong, Kaicong Sun, Jiameng Liu, Xin Lin, Ziyi Chen, Yuanzhe He, Qian Wang, Dinggang Shen Presenter: Yulin Wang, ShanghaiTech University, China
C149 (Fri-AM)	FilterDiff: Noise-free Frequency-domain Diffusion Models for Accelerated MRI Reconstruction Authors: Tao Song, Fang Nie, Yi Guo, Feng Xu, Shaoting Zhang Presenter: Tao Song, Fudan University, China
C154 (Fri-AM)	Structure-aware MRI Translation: Multi-Modal Latent Diffusion Model with Arbitrary Missing Modalities Authors: Xinzhe Zhang, Junjie Liang, Peng Cao, Jinzhu Yang, Osmar R. Zaiane Presenter: Osmar Zaiane, Northeastern University, China

C159 (Fri-AM)	FMM-Diff: A Feature Mapping and Merging Diffusion Model for MRI Generation with Missing Modality <i>Authors: Wenjin Zhong, Cong Cong, Zihan Wang, Zeya Yan, Antonio Di Ieva, Sidong Liu</i> <i>Presenter: Wenjin Zhong, Macquarie University, Australia</i>
C164 (Fri-AM)	D3M: Deformation-Driven Diffusion Model for Synthesis of Contrast-Enhanced MRI with Brain Tumors <i>Authors: Haowen Pang, Peng Zhang, Xiaoming Hong, Shannan Chen, Chuyang Ye</i> <i>Presenter: Haowen Pang, Beijing Institute of Technology, China</i>
C169 (Fri-AM) Paper Highlight	CardiacFlow: 3D+t Four-Chamber Cardiac Shape Completion and Generation via Flow Matching <i>Authors: Qiang Ma, Qingjie Meng, Mengyun Qiao, Paul M. Matthews, Declan P. O'Regan, Wenjia Bai</i> <i>Presenter: Qiang Ma, Imperial College London, United Kingdom</i>
C174 (Fri-AM)	CortexGen: A Geometric Generative Framework for Realistic Cortical Surface Generation Using Latent Flow Matching <i>Authors: Yuanzhuo Zhu, Kehan Li, Jianhua Ma, Chunfeng Lian, Fan Wang</i> <i>Presenter: Yuanzhuo Zhu, Xi'an Jiaotong University, China</i>
C179 (Fri-AM)	Lifespan Cortical Surface Reconstruction from Thick-Slice Clinical MRI <i>Authors: Xiuyu Dong, Kaibo Tang, Dan Hu, Zhengwang Wu, Li Wang, Weili Lin, Gang Li</i> <i>Presenter: Xiuyu Dong, The University of North Carolina at Chapel Hill, United States</i>
C184 (Fri-AM)	DGM: Disentangled Generative Model for Detecting AD Individualized Pathological Changes via Pseudo-Healthy Synthesis <i>Authors: Zhuangzhuang Li, Kun Zhao, Dong Wang, Yong Liu</i> <i>Presenter: Zhuangzhuang Li, Beijing University of Posts and Telecommunications, China</i>
C189 (Fri-AM) Paper Highlight	3D Acetabular Surface Reconstruction from 2D Pre-operative X-ray Images using SRVF Elastic Registration and Deformation Graph <i>Authors: Shuai Zhang, Jinliang Wang, Xu Wang, Sujith Konan, Danail Stoyanov, Evangelos B. Mazomenos</i> <i>Presenter: Shuai Zhang, University College London, United Kingdom</i>
C194 (Fri-AM)	Mask2Surface: Motion Correction and Super-Resolution for Cardiac Surface Reconstruction Using Latent Diffusion <i>Authors: Zichen Zhang, Zhentao Liu, Zeng Zhang, Zhiming Cui</i> <i>Presenter: Zichen Zhang, ShanghaiTech University, China</i>
C199 (Fri-AM)	Hybrid State-Space Models and Denoising Training for Unpaired Medical Image Synthesis <i>Authors: Junming Zhang, Shancheng Jiang</i> <i>Presenter: Junming Zhang, Sun Yat-sen University, China</i>
C204 (Fri-AM)	Mind the Detail: Uncovering Clinically Relevant Image Details in Accelerated MRI with Semantically Diverse Reconstructions <i>Authors: Jan Nikolas Morshuis, Christian Schlarmann, Thomas Küstner, Christian F. Baumgartner, Matthias Hein</i> <i>Presenter: Jan Nikolas Morshuis, University of Tübingen, Germany</i>
C209 (Fri-AM)	Phenotype-Guided Generative Model for High-Fidelity Cardiac MRI Synthesis: Advancing Pretraining and Clinical Applications <i>Authors: Ziyu Li, Yujian Hu, Zhengyao Ding, Yiheng Mao, Haitao Li, Fan Yi, Hongkun Zhang, Zhengxing Huang</i> <i>Presenter: Ziyu Li, Zhejiang University, China</i>
C214 (Fri-AM)	Implicit Deformable Medical Image Registration with Learnable Kernels <i>Authors: Stefano Fogarollo, Gregor Laimer, Reto Bale, Matthias Harders</i> <i>Presenter: Stefano Fogarollo, University of Innsbruck, Austria</i>
C219 (Fri-AM)	BiMSRec: A Progressive Image Reconstruction Framework for Medical Image Fusion Guided by Multi-Scale Deformation Fields <i>Authors: Nuoyer Long, Kaiwen Yang, Xinyu Xie, Zitong Yu, Tao Tan, Yue Sun</i> <i>Presenter: Kaiwen Yang, Macao Polytechnic University, Macao SAR</i>
C224 (Fri-AM)	MAK-GAN: Multi-level Adaptive Convolutional Kernels for Asymmetric Multi-modal PET Reconstruction <i>Authors: Xinyi Zeng, Pinxian Zeng, Yan Wang, Jiaqi Cui, Luping Zhou, Caiwen Jiang, Han Zhang, Dinggang Shen</i> <i>Presenter: Xinyi Zeng, Sichuan University, China</i>

C229 (Fri-AM)

Towards Interpretable Counterfactual Generation via Multimodal Autoregression
Authors: Chenglong Ma, Yuanfeng Ji, Jin Ye, Lu Zhang, Ying Chen, Tianbin Li, Mingjie Li, Junjun He, Hongming Shan
Presenter: Chenglong Ma, Fudan University, China

C234 (Fri-AM)

ResMAP: Restoring MRIs of Mixed Artifacts by Prompt Cascading Retrieval
Authors: Yuxian Tang, Feng Li, Feng Shi, Qian Wang
Presenter: Yuxian Tang, ShanghaiTech University, China

C239 (Fri-AM)

Speech Audio Generation from Dynamic MRI via a Knowledge Enhanced Conditional Variational Autoencoder
Authors: Yaxuan Li, Han Jiang, Yifei Ma, Shihua Qin, Jonghye Woo, Fangxu Xing
Presenter: Yaxuan Li, The University of Hong Kong, Hong Kong SAR

C244 (Fri-AM)

Controllable latent diffusion model to evaluate the performance of cardiac segmentation methods
Authors: Romain Deleat-besson, Celia Goujat, Olivier Bernard, Pierre Croisille, Magalie Viallon, Nicolas Duchateau
Presenter: Romain Deleat-besson, Universite Claude Bernard Lyon 1, France

C249 (Fri-AM)

WASABI: A Metric for Evaluating Morphometric Plausibility of Synthetic Brain MRIs
Authors: Bahram Jafrasteh, Wei Peng, Cheng Wan, Yimin Luo, Ehsan Adeli, Qingyu Zhao
Presenter: Qingyu Zhao, Weill Cornell Medicine, United States

C254 (Fri-AM)

A Large-scale Neural Model Inversion Framework for Effective Connectivity Estimation
Authors: Guoshi Li, Pew-Thian Yap
Presenter: Guoshi Li, University of North Carolina at Chapel Hill, United States

C259 (Fri-AM)

Intra- and Cross-View Enhancement for OCTA Imaging
Authors: Jingbo Zeng, Bingyao Tan, Zaiwang Gu, Shenghua Gao, Leopold Schmetterer, Jun Cheng
*Presenter: Jun Cheng, Agency for Science, Technology and Research (A*STAR), Singapore*

C264 (Fri-AM)

Generating Novel Brain Morphology by Deforming Learned Templates
Authors: Alan Q. Wang, Fangrui Huang, Bailey Trang, Wei Peng, Mohammad Abbasi, Kilian Pohl, Mert R. Sabuncu, Ehsan Adeli
Presenter: Alan Wang, Stanford University, United States

C269 (Fri-AM)

D2Diff: A Dual-Domain Diffusion Model for Accurate Multi-Contrast MRI Synthesis
Authors: Sanuwani Dayarathna, Himashi Peiris, Kh Tohidul Islam, Tien-Tsin Wong, Zhaolin Chen
Presenter: Sanuwani Dayarathna, Monash University, Australia

C274 (Fri-AM)

Boosting 3D Liver Shape Datasets with Diffusion Models and Implicit Neural Representations
Authors: Khoa Tuan Nguyen, Francesca Tozzi, Wouter Willaert, Joris Vankerschaver, Niki Rashidian, Wesley De Neve
Presenter: Khoa Tuan Nguyen, Ghent University Global Campus; Ghent University, Republic of Korea

C279 (Fri-AM)

Boosting Medical Image Synthesis via Registration-guided Consistency and Disentanglement Learning
Authors: Chuanpu Li, Zeli Chen, Yiwen Zhang, Liming Zhong, Wei Yang
Presenter: Chuanpu Li, Southern Medical University, China

C284 (Fri-AM)

Target Prior-enriched Implicit 3D CT Reconstruction with Adaptive Ray Sampling
Authors: Qinglei Cao, Ziyao Tang, Xiaoqin Tang
Presenter: Xiaoqin Tang, Southwest University, China

C289 (Fri-AM)

UFO-3: Unsupervised Three-Compartment Learning for Fiber Orientation Distribution Function Estimation
Authors: Xueqing Gao, Rizhong Lin, Jianhui Feng, Yonggang Shi, Yuchuan Qiao
Presenter: Xueqing Gao, Tongji University, China

C294 (Fri-AM)

Anatomy-Aware Low-Dose CT Denoising via Pretrained Vision Models and Semantic-Guided Contrastive Learning
Authors: Runze Wang, Zeli Chen, Zhiyun Song, Wei Fang, Jiajin Zhang, Danyang Tu, Yuxing Tang, Minfeng Xu, Xianghua Ye, Le Lu, Dakai Jin
Presenter: Runze Wang, DAMO Academy, Alibaba Group, China

C299 (Fri-AM)

Dyna3DGR: 4D Cardiac Motion Tracking with Dynamic 3D Gaussian Representation
Authors: Xueming Fu, Pei Wu, Yingtai Li, Xin Luo, Zihang Jiang, Junhao Mei, Jian Lu, Gao-Jun Teng, S. Kevin Zhou
Presenter: Xueming Fu, University of Science and Technology of China, China

C304 (Fri-AM)	Lesion-Aware Post-Training of Latent Diffusion Models for Synthesizing Diffusion MRI from CT Perfusion <i>Authors: Junhyeok Lee, Hyunwoong Kim, Hyungjin Chung, Heeseong Eom, Joon Jang, Chul-Ho Sohn, Kyu Sung Choi</i> <i>Presenter: Junhyeok Lee, Seoul National University, Republic of Korea</i>
C309 (Fri-AM)	RDMR: Recursive Inference and Representation Disentanglement for Multimodal Large Deformation Registration <i>Authors: Yibo Hu, Ziqi Zhao, Qi Zhang, Lisa X. Xu, Jianqi Sun</i> <i>Presenter: Yibo Hu, Shanghai JiaoTong University, China</i>
C314 (Fri-AM)	IFRFNet: Iterative Frequency Restoration-Fusion Network for Fast System Matrix Calibration on Magnetic Particle Image <i>Authors: Weixin Xu, Penghua Zhai, Jie Tian, Wei Mu</i> <i>Presenter: Weixin Xu, Beihang University, China</i>
C319 (Fri-AM)	Hierarchical Part-based Generative Model for Realistic 3D Blood Vessel <i>Authors: Siqi Chen, Guoqing Zhang, Jiahao Lai, Bingzhi Shen, Sihong Zhang, Caixia Dong, Xuejin Chen, Yang Li</i> <i>Presenter: Siqi Chen, Tsinghua University, China</i>
C324 (Fri-AM)	Spatio-temporal Pre-trained Foundation Model for Neural Decoding with Fine-grained Optimization <i>Authors: Ziyu Li, Zhiyuan Zhu, Yang Bai, Qing Li, Xia Wu</i> <i>Presenter: Ziyu Li, Beijing Institute of Technology, China</i>
C329 (Fri-AM)	DCT-Net: Dual-branch CT Reconstruction from Orthogonal X-rays with Diffusion Model and Contrastive Learning <i>Authors: Zhiyu Zhang, Cong Shen, Jijun Tang, Zhijun Liao</i> <i>Presenter: Zhiyu Zhang, Tianjin University of Technology, China</i>
C334 (Fri-PM)	WDNet: A Novel Wavelet-guided Hierarchical Diffusion Network for Multi-Target Segmentation in Colonoscopy Images <i>Authors: Dongdong He, Fang Ma, Ziteng Liu, Xunhai Yin, Hao Liu, Wenpeng Gao, Chenghong Zhang, Yili Fu</i> <i>Presenter: Dongdong He, Harbin Institute of Technology, China</i>

Poster Session 5: Surgical Data Science / Graphs / Missing Data and Weak Supervision
Friday, September 26, 2025, 15:30 – 17:00
Poster Hall (DCC 2)

A5 (Fri-PM)	Automated Detection of BK Virus in H&E Whole-Slide Images Using Weakly-Supervised Deep Learning and Interpretable Morphological Biomarkers <i>Authors: Sharifa Sahai, Ana D. Ramos-Guerra, Cristina Almagro-Pérez, Guillaume Jaume, Andrew Zhang, Helmut Rennke, Astrid Weins, Juan E. Ortuño, Maria J. Ledesma-Carbayo, Faisal Mahmood</i> <i>Presenters: Sharifa Sahai, Harvard Medical School, United States and Ana D. Ramos-Guerra, Universidad Politécnica de Madrid, Spain</i>
A10 (Fri-PM)	SAGCNet: Spatial-Aware Graph Completion Network for Missing Slice Imputation in Population CMR Imaging <i>Authors: Junkai Liu, Nay Aung, Theodoros N. Arvanitis, Stefan K. Piechnik, Joao A. C. Lima, Steffen E. Petersen, Le Zhang</i> <i>Presenter: Junkai Liu, University of Birmingham, United Kingdom</i>
A15 (Fri-PM)	FDAS: Foundation Model Distillation and Anatomic Structure-aware Multi-task Learning for Self-Supervised Medical Image Segmentation <i>Authors: Xiaoran Qi, Guoning Zhang, Jianghao Wu, Shaoting Zhang, Xiaorong Hou, Guotai Wang</i> <i>Presenter: Xiaoran Qi, University of Electronic Science and Technology of China, China</i>
A20 (Fri-PM)	Synergy-Guided Regional Supervision of Pseudo Labels for Semi-Supervised Medical Image Segmentation <i>Authors: Tao Wang, Xinlin Zhang, Yuanbin Chen, Yuanbo Zhou, Longxuan Zhao, Tao Tan, Tong Tong</i> <i>Presenter: Tao Wang, Fuzhou University, China</i>
A25 (Fri-PM)	Multi-Masked Querying Network for Robust Emotion Recognition from Incomplete Multi-Modal Physiological Signals <i>Authors: Geng-Xin Xu, Xiang Zuo, Ye Li</i> <i>Presenter: Geng-Xin Xu, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>

A30 (Fri-PM)	Iterative Foundation-Dedicated Learning: Optimized Key Frames, Prompts and Memories for Semi-Supervised Segmentation <i>Authors: Ziman Yin, Dong Nie, Shuo Li, Junjun Pan, Zhenyu Tang</i> <i>Presenter: Ziman Yin, Beihang University, China</i>
A35 (Fri-PM)	Tree-based Semantic Losses: Application to Sparsely-supervised Large Multi-class Hyperspectral Segmentation <i>Authors: Junwen Wang, Oscar Maccormac, William Rochford, Aaron Kujawa, Jonathan Shapey, Tom Vercauteren</i> <i>Presenter: Junwen Wang, King's College London, United Kingdom</i>
Paper Highlight	
A40 (Fri-PM)	MAMBA-Based Weakly Supervised Medical Image Segmentation with Cross-Modal Textual Information <i>Authors: Zhen Pan, Wenhui Huang, Yuanjie Zheng</i> <i>Presenter: Wenhui Huang, Shandong Normal University, China</i>
A45 (Fri-PM)	Robust Multimodal Learning for Ophthalmic Disease Grading via Disentangled Representation <i>Authors: Xinkun Wang, Yifang Wang, Senwei Liang, Feilong Tang, Chengzhi Liu, Ming Hu, Chao Hu, Junjun He, Zongyuan Ge, Imran Razzak</i> <i>Presenter: Feilong Tang, Monash University, Australia</i>
A50 (Fri-PM)	Multi-modal MRI Translation via Evidential Regression and Distribution Calibration <i>Authors: Jiyao Liu, Shangqi Gao, Yuxin Li, Lihao Liu, Xin Gao, Zhaohu Xing, Junzhi Ning, Yanzhou Su, Xiao-Yong Zhang, Junjun He, Ningsheng Xu, Xiahai Zhuang</i> <i>Presenter: Jiyao Liu, Fudan University, China</i>
A55 (Fri-PM)	A Semi-Supervised Knowledge Distillation Framework for Left Ventricle Segmentation and Landmark Detection in Echocardiograms <i>Authors: Haoyuan Chen, Yonghao Li, Long Yang, Han Wu, Lin Zhou, Kaicong Sun, Dinggang Shen</i> <i>Presenter: Haoyuan Chen, ShanghaiTech University, China</i>
A60 (Fri-PM)	Weakly Semi-Supervised Cervical Lesion Cell Detection via Twin-Memory Augmented Multiple Instance Learning <i>Authors: Manman Fei, Zhiyun Song, Zhenrong Shen, Mengjun Liu, Qian Wang, Lichi Zhang</i> <i>Presenter: Manman Fei, Shanghai Jiao Tong University, China</i>
A65 (Fri-PM)	Spatial Aggregation for Semi-supervised Active Learning in 3D Medical Image Segmentation <i>Authors: Siteng Ma, Honghui Du, Dairui Liu, Kathleen M. Curran, Aonghus Lawlor, Ruihai Dong</i> <i>Presenter: Siteng Ma, University College Dublin, Ireland</i>
A70 (Fri-PM)	Self-Supervised Distillation of Legacy Rule-Based Methods for Enhanced EEG-Based Decision-Making <i>Authors: Yipeng Zhang, Yuanyi Ding, Chenda Duan, Atsuro Daida, Hiroki Nariai, Vwani Roychowdhury</i> <i>Presenter: Yipeng Zhang, University of California, Los Angeles, United States</i>
A75 (Fri-PM)	Inter-class separability loss for weakly supervised mutually exclusive multiclass segmentation of brain tumor lesions <i>Authors: Vivek Dhamale, Vaanathi Sundaresan</i> <i>Presenter: Vivek Dhamale, Indian Institute of Science, Bangalore, India</i>
Paper Highlight	
A80 (Fri-PM)	Temporal Modulated Multi-Scale Deformation Fusion via Knowledge Distillation for 4D Medical Image Interpolation <i>Authors: Jiaju Zhang, Danni Ai, Zhikun Gan, Tianyu Fu, Jingfan Fan, Hong Song, Deqiang Xiao, Jian Yang</i> <i>Presenter: Jiaju Zhang, Beijing Institute of Technology, China</i>
A85 (Fri-PM)	A Unified Missing Modality Imputation Model with Inter-Modality Contrastive and Consistent Learning <i>Authors: Liangce Qi, Yusi Liu, Yuqin Li, Weili Shi, Guanyuan Feng, Zhengang Jiang</i> <i>Presenter: Liangce Qi, Changchun University of Science and Technology, China</i>
A90 (Fri-PM)	Last Layer Laplacian Pseudocoresets for Robust Medical Image Analysis <i>Authors: Franciskus Xaverius Erick, Johanna Paula Müller, Zhe Li, Bernhard Kainz</i> <i>Presenter: Franciskus Xaverius Erick, Friedrich-Alexander University Erlangen-Nürnberg, Germany</i>
A95 (Fri-PM)	Multimodal Imputation of Imaging-derived Phenotypes from Genomic and Blood-based Biomarkers Enhances Common Disease Discovery <i>Authors: Haoyang Zhang, Yan Li, Junhong Liu, Lizhen Lan, Zian Wang, Longyu Sun, Yuntong Lv, Shengxiao Yang, Qing Li, Mengting Sun, Yajing Zhang, Binghua Chen, Xionghui Zhou, Lianming Wu, Chengyan Wang</i>

Presenter: Haoyang Zhang, Fudan University, China

A100 (Fri-PM)	UM-SAM: Unsupervised Medical Image Segmentation using Knowledge Distillation from Segment Anything Model Authors: Jia Fu, He Li, Tao Lu, Shaoting Zhang, Guotai Wang Presenter: Jia Fu, University of Electronic Science and Technology of China, China
A105 (Fri-PM)	Edge-semantic Synergy Fusion and Adaptive Noise-aware for Weakly Supervised Pathological Tissue Segmentation Authors: Hualong Zhang, Siyang Feng, Zihan Huan, Huadeng Wang, Zhenbing Liu, Rushi Lan, Xipeng Pan Presenter: Hualong Zhang, Guilin university of Electronic Technology, China
A110 (Fri-PM)	Bridging the Gap in Missing Modalities: Leveraging Knowledge Distillation and Style Matching for Brain Tumor Segmentation Authors: Shenghao Zhu, Yifei Chen, Weihong Chen, Yuanhan Wang, Chang Liu, Shuo Jiang, Feiwei Qin, Changmiao Wang Presenter: Shenghao Zhu, Hangzhou Dianzi University, China
A115 (Fri-PM)	Anatomical Graph-based Multilevel Distillation for Robust Alzheimer’s Disease Diagnosis with Missing Modalities Authors: Fei Liu, Huabin Wang, Mohamed Hisham Jaward, Shiuan-Ni Liang, Huey Fang Ong, Jiayuan Cheng Presenter: Fei Liu, Monash University Malaysia, Malaysia
A120 (Fri-PM)	UltrON: Ultrasound Occupancy Networks Authors: Magdalena Wysocki, Felix Duelmer, Ananya Bal, Nassir Navab, Mohammad Farid Azampour Presenter: Magdalena Wysocki, Technical University of Munich, Germany
A125 (Fri-PM)	Semi-Supervised Multi-Modal Medical Image Segmentation for Complex Situations Authors: Dongdong Meng, Sheng Li, Hao Wu, Guoping Wang, Xueqing Yan Presenter: Dongdong Meng, Peking University, China
A130 (Fri-PM)	Diffusion-Based User-Guided Data Augmentation for Coronary Stenosis Detection Authors: Sumin Seo, In Kyu Lee, Hyun-Woo Kim, Jaesik Min, Chung-Hwan Jung Presenter: Sumin Seo, Medipixel, Inc., Republic of Korea
A135 (Fri-PM)	PCR-MIL: Phenotype Clustering Reinforced Multiple Instance Learning for Whole Slide Image Classification Authors: Jingjiao Lou, Qingtao Pan, Qing Yang, Bing Ji Presenter: Jingjiao Lou, Shandong University, China
A140 (Fri-PM)	A Learning Framework for Predicting CT-based PRM Biomarker from MRI Sequences in COPD Authors: Yiling Xu, Simon M. F. Triphan, Julian Grolig, Hanyi Zhang, Jürgen Biederer, Craig J. Galbán, Hans-Ulrich Kauczor, Mark O. Wielpütz, Oliver Weinheimer Presenter: Yiling Xu, Heidelberg University Hospital, Germany
A145 (Fri-PM)	Revisiting 3D Medical Scribble Supervision: Benchmarking Beyond Cardiac Segmentation Authors: Karol Gotkowski, Klaus H. Maier-Hein, Fabian Isensee Presenter: Karol Gotkowski, German Cancer Research Center, Germany
A150 (Fri-PM)	FedAMM: Federated Learning for Brain Tumor Segmentation with Arbitrary Missing Modalities Authors: Yukun Shi, Meiting Xue, Yan Zeng, Jilin Zhang, Jian Wan, Ye Zhou Presenter: Yukun Shi, Hangzhou Dianzi University, China
A155 (Fri-PM)	Scalp Diagnostic System With Label-Free Segmentation and Training-Free Image Translation Authors: Youngmin Kim, Saejin Kim, Hoyeon Moon, Youngjae Yu, Junhyug Noh Presenter: Youngmin Kim, Yonsei University, Republic of Korea
A160 (Fri-PM)	GA-SAM: Geometry-Aware SAM Adaptation with Sparse Annotation-Driven Point Cloud Completion Authors: Shumeng Li, Jian Zhang, Lei Qi, Yinghuan Shi Presenter: Shumeng Li, Nanjing University, China
A165 (Fri-PM)	ProTeUS: A Spatio-Temporal Enhanced Ultrasound-Based Framework for Prostate Cancer Detection Authors: Tarek Elghareb, Mohamed Harmanani, Minh Nguyen Nhat To, Paul Wilson, Amoon Jamzad, Fahimeh Fooladgar, Baraa Abdelsamad, Obed Dzikunu, Samira Sojoudi, Gabrielle Reznik, Michael Leveridge, Robert Siemens, Silvia Chang, Peter Black, Parvin Mousavi, Purang Abolmaesumi Presenter: Tarek Elghareb, University of British Columbia, Canada

A170 (Fri-PM)	ReCo-I2P: An Incomplete Supervised Lymph Node Segmentation Framework Based on Orthogonal Partial-instance Annotation <i>Authors: Litingyu Wang, Ping Ye, Wenjun Liao, Shichuan Zhang, Shaoting Zhang, Guotai Wang</i> <i>Presenter: Litingyu Wang, University of Electronic Science and Technology of China, China</i>
Paper Highlight	
A175 (Fri-PM)	Hierarchical Corpus-View-Category Refinement for Carotid Plaque Risk Grading in Ultrasound <i>Authors: Zhiyuan Zhu, Jian Wang, Yong Jiang, Tong Han, Yuhao Huang, Ang Zhang, Kaiwen Yang, Mingyuan Luo, Zhe Liu, Yaofei Duan, Dong Ni, Tianhong Tang, Xin Yang</i> <i>Presenter: Zhiyuan Zhu, Shenzhen University, China</i>
A180 (Fri-PM)	Masked Contrastive Language-Image Modeling For Brain Segmentation <i>Authors: Jianwen Liang, Junyan Lyu, Yixuan Yuan, Xiaoying Tang</i> <i>Presenter: Jianwen Liang, Southern University of Science and Technology, China</i>
A185 (Fri-PM)	Subtyping Breast Lesions via Generative Augmentation based Long-tailed Recognition in Ultrasound <i>Authors: Shijing Chen, Xinrui Zhou, Yuhao Wang, Yuhao Huang, Ao Chang, Dong Ni, Ruobing Huang</i> <i>Presenter: Shijing Chen, Shenzhen University, China</i>
A190 (Fri-PM)	IM-Fuse: A Mamba-based Fusion Block for Brain Tumor Segmentation with Incomplete Modalities <i>Authors: Vittorio Pipoli, Alessia Saporita, Kevin Marchesini, Costantino Grana, Elisa Ficarra, Federico Bolelli</i> <i>Presenter: Kevin Marchesini, University of Modena and Reggio Emilia, Italy</i>
A195 (Fri-PM)	Hallucination-Aware Multimodal Benchmark for Gastrointestinal Image Analysis with Large Vision-Language Models <i>Authors: Bidur Khanal, Sandesh Pokhrel, Sanjay Bhandari, Ramesh Rana, Nikesh Shrestha, Ram B. Gurung, Cristian Linte, Angus Watson, Yash R. Shrestha, Binod Bhattarai</i> <i>Presenter: Binod Bhattarai, Nepal Applied Mathematics and Informatics Institute for Research, Nepal</i>
Paper Highlight	
A200 (Fri-PM)	Endo-CLIP: Progressive Self-Supervised Pre-training on Raw Colonoscopy Records <i>Authors: Yili He, Yan Zhu, Peiyao Fu, Ruijie Yang, Tianyi Chen, Zhihua Wang, Quanlin Li, Pinghong Zhou, Xian Yang, Shuo Wang</i> <i>Presenter: Yili He, University College London, United Kingdom</i>
A205 (Fri-PM)	ESPNNet: Edge-Aware Feature Shrinkage Pyramid for Polyp Segmentation <i>Authors: Raneem Toman, Venkataraman Subramanian, Sharib Ali</i> <i>Presenter: Raneem Toman, University of Leeds, United Kingdom</i>
A210 (Fri-PM)	SurgicalGS: Dynamic 3D Gaussian Splatting for Accurate Robotic-Assisted Surgical Scene Reconstruction <i>Authors: Jialei Chen, Xin Zhang, Mobarak I. Hoque, Francisco Vasconcelos, Danail Stoyanov, Daniel S. Elson, Baoru Huang</i> <i>Presenter: Jialei Chen, Imperial College London, United Kingdom</i>
A215 (Fri-PM)	Clinically-guided Data Synthesis for Laryngeal Lesion Detection <i>Authors: Chiara Baldini, Kaisar Kushibar, Richard Osuala, Simone Balocco, Oliver Diaz, Karim Lekadir, Leonardo S. Mattos</i> <i>Presenter: Chiara Baldini, Istituto Italiano di Tecnologia, Italy</i>
A220 (Fri-PM)	Future Slot Prediction for Unsupervised Object Discovery in Surgical Video <i>Authors: Guiqiu Liao, Matjaz Jogan, Marcel Hussing, Edward Zhang, Eric Eaton, Daniel A. Hashimoto</i> <i>Presenter: Matjaz Jogan, University of Pennsylvania, United States</i>
A225 (Fri-PM)	VAP-Diffusion: Enriching Descriptions with MLLMs for Enhanced Medical Image Generation <i>Authors: Peng Huang, Junhu Fu, Bowen Guo, Zeju Li, Yuanyuan Wang, Yi Guo</i> <i>Presenter: Junhu Fu, Fudan University, China</i>
A230 (Fri-PM)	FPN-in-FPN: A Nested Multi-Scale Aggregation Network for Polyp Segmentation <i>Authors: Jin Ye, Yanzhou Su, Yicheng Wu, Junjun He, Bohan Zhuang, Zhaolin Chen, Jianfei Cai</i> <i>Presenter: Jin Ye, Monash University, Australia</i>
A235 (Fri-PM)	Feature Mixing Approach for Detecting Intraoperative Adverse Events in Laparoscopic Roux-en-Y Gastric Bypass Surgery <i>Authors: Rupak Bose, Chinedu Innocent Nwoye, Jorge F. Lazo, Joël L. Lavanchy, Nicolas Padoy</i> <i>Presenter: Chinedu Innocent Nwoye, Intuitive Surgical, United States</i>
A240 (Fri-PM)	Synchronous Inhibition and Activation for Weakly Supervised Semantic Segmentation of Pathology Images

Authors: Jiansong Fan, Yicheng Di, Jiayu Bao, Lihua Li, Xiang Pan
Presenter: Jiansong Fan, Jiangnan University, China

A245 (Fri-PM)	Estimating Bone Mineral Density and Muscle Mass from EOS Low Dose X-ray Imaging System Authors: Kazuki Suehara, Yi Gu, Yoshito Otake, Keisuke Uemura, Masashi Okamoto, Kunihiro Tokunaga, Hugues Talbot, Yoshinobu Sato Presenter: Yoshito Otake, Nara Institute of Science and Technology, Japan
A250 (Fri-PM)	Improved Tumor Segmentation using Selective Synthetic Augmentation for Enhanced Surgical Planning in Breast MRI Authors: Miguel Luna, John Baek, Won Hwa Kim, Wan Gyu Son, Kwang Min Lee, Hye Jung Kim, Jaeil Kim Presenter: Miguel Luna, BeamWorks, Republic of Korea
A255 (Fri-PM)	MedICL: In-Context Learning for Semantically Enhanced AKI Prediction in Cardiac Surgery Authors: Chenyang Su, Yishun Wang, Boqiang Xu, Rong Feng, Lei Du, Hongbin Liu, Gaofeng Meng Presenter: Chenyang Su, City University of Hong Kong, China
A260 (Fri-PM)	A Prior-Driven Lightweight Network for Endoscopic Exposure Correction Authors: Zhijian Wu, Hong Wang, Yuxuan Shi, Dingjiang Huang, Yefeng Zheng Presenter: Zhijian Wu, Westlake University, China
A265 (Fri-PM)	PolypSegTrack: Unified Foundation Model for Colonoscopy Video Analysis Authors: Anwesa Choudhuri, Zhongpai Gao, Meng Zheng, Benjamin Planche, Terrence Chen, Ziyang Wu Presenter: Anwesa Choudhuri, United Imaging Intelligence, United States
A270 (Fri-PM)	Endplate3D-QCT: A High-Resolution Dataset and Benchmark for Automated 3D Segmentation of Lumbar Vertebral Endplates in QCT Authors: Zixun Yin, Da Zou, Yi Zhao, Chenbin Zhang, Weishi Li, Minghui Wu, Kun Yan, Ping Wang Presenter: Zixun Yin, Peking University, China
A275 (Fri-PM)	Facial Appearance Prediction with Conditional Multi-scale Autoregressive Modeling for Orthognathic Surgical Planning Authors: Jungwook Lee, Xuanang Xu, Daeseung Kim, Tianshu Kuang, Hannah H. Deng, Xinrui Song, Yasmine Soubra, Rohan Dharia, Michael A.K. Liebschner, Jaime Gateno, Pingkun Yan Presenter: Jungwook Lee, Rensselaer Polytechnic Institute, United States
A280 (Fri-PM)	KidneyDepth: A Synthetic Kidney Dataset for Metric Depth Estimation in Ureteroscopy Authors: Laura Oliva-Maza, Florian Steidle, Julian Klodmann, Klaus Strobl, Arkadiusz Miernik, Rudolph Triebel Presenter: Laura Oliva-Maza, German Aerospace Center (DLR), Germany
A285 (Fri-PM)	HALF-SAM: SAM-based Haustral Fold Detection In Colonoscopy with Debris Suppression and Temporal Consistency Authors: Mayank Golhar, Luojie Huang, Nicholas J. Durr Presenter: Mayank Golhar, Johns Hopkins University, United States
A290 (Fri-PM)	Endo3R: Unified Online Reconstruction from Dynamic Monocular Endoscopic Video Authors: Jiaxin Guo, Wenzhen Dong, Tianyu Huang, Hao Ding, Ziyi Wang, Haomin Kuang, Qi Dou, Yun-Hui Liu Presenter: Jiaxin Guo, The Chinese University of Hong Kong, Hong Kong SAR
A295 (Fri-PM)	SAMSA: Segment Anything Model enhanced with Spectral Angles for Hyperspectral Interactive Medical Image Segmentation Authors: Alfie Roddan, Tobias Czempel, Chi Xu, Daniel S. Elson, Stamatia Giannarou Presenter: Alfie Roddan, Imperial College London, United Kingdom
A300 (Fri-PM)	BrainMT: A Hybrid Mamba-Transformer Architecture for Modeling Long-Range Dependencies in Functional MRI Data Authors: Arunkumar Kannan, Martin A. Lindquist, Brian Caffo Presenter: Arunkumar Kannan, Johns Hopkins University, United States
A305 (Fri-PM)	Learning 3D Medical Image Models From Brain Functional Connectivity Network Supervision For Mental Disorder Diagnosis Authors: Xingcan Hu, Wei Wang, Li Xiao Presenter: Xingcan Hu, University of Science and Technology of China, China
A310 (Fri-PM)	Alzheimer’s Disease Recognition Based on Adaptive Graph Normalization Flow for Incomplete Multimodal Data Fusion Authors: Yaqin Li, Yihong Dong, Yanan Wu, Haihao Yan, Linlin Gao

Presenter: Yaqin Li, Ningbo University, China

A315 (Fri-PM)	A Causal-holistic Adaptive Intervention Network for Tailoring Automated Coronary Artery Disease Diagnosis to Individual Patients <i>Authors: Xinghua Ma, Xingyu Qiu, Yuetan Chu, Kuanquan Wang, Zhaowen Qiu, Gongning Luo, Xin Gao</i> <i>Presenter: Xinghua Ma, Harbin Institute of Technology, China</i>
A320 (Fri-PM)	Rethinking Multi-view Mammogram Representation Learning via Counterfactual Reasoning with Kolmogorov-Arnold Theorem <i>Authors: Guoli Wang, Benzhenh Wei, Shuo Li</i> <i>Presenter: Shuo Li, Case Western Reserve University, United States</i>
A325 (Fri-PM)	A Causality-Inspired Model for Intima-Media Thickening Assessment in Ultrasound Videos <i>Authors: Shuo Gao, Meng Yang, Jun Xue, Yang Chen, Jingyang Zhang, Guangquan Zhou</i> <i>Presenter: Shuo Gao, Southeast University, China</i>
A330 (Fri-PM)	R1Seg-3D: Rethinking Reasoning Segmentation for Medical 3D CTs <i>Authors: Qin Hao, Long Yu, Shengwei Tian, Xujiong Ye, Lei Zhang</i> <i>Presenter: Qin Hao, Xinjiang University, China</i>
A335 (Fri-PM)	Synthetic Ground Truth Counterfactuals for Comprehensive Evaluation of Causal Generative Models in Medical Imaging <i>Authors: Emma A. M. Stanley, Vibujithan Vigneshwaran, Erik Y. Ohara, Finn G. Vamosi, Nils D. Forkert, Matthias Wilms</i> <i>Presenter: Emma Stanley, University of Calgary, Canada</i>
A340 (Fri-PM)	MOSCARD - Multimodal Opportunistic Screening for Cardiovascular Adverse events with Causal Reasoning and De-confounding <i>Authors: Jialu Pi, Juan Maria Farina, Rimita Lahiri, Jiwoong Jeong, Archana Gurudu, Hyung-Bok Park, Chieh-Ju Chao, Chadi Ayoub, Reza Arsanjani, Imon Banerjee</i> <i>Presenter: Jialu Pi, Arizona State University, United States</i>
A345 (Fri-PM)	Multi-Spatial Granger Causality Features Fusion Network for Alzheimer’s Disease Classification <i>Authors: Zhiwei Song, Jingming Li, Hu Yu, Xiaojuan Guo</i> <i>Presenter: Zhiwei Song, Beijing Normal University, China</i>
A350 (Fri-PM)	Information Bottleneck-based Causal Attention for Multi-label Medical Image Recognition <i>Authors: Xiaoxiao Cui, Yiran Li, Kai He, Shanzhi Jiang, Mengli Xue, Wentao Li, Junhong Leng, Zhi Liu, Lizhen Cui, Shuo Li</i> <i>Presenter: Xiaoxiao Cui, Shandong University, China</i>
A355 (Fri-PM)	CF-Seg: Counterfactuals meet Segmentation <i>Authors: Raghav Mehta, Fabio De Sousa Ribeiro, Tian Xia, Mélanie Roschewitz, Ainkaran Santhirasekaram, Dominic C. Marshall, Ben Glocker</i> <i>Presenter: Raghav Mehta, Imperial College London, United Kingdom</i>
A360 (Fri-PM)	Mission Balance: Generating Under-represented Class Samples using Video Diffusion Models <i>Authors: Danush Kumar Venkatesh, Isabel Funke, Micha Pfeiffer, Fiona Kolbinger, Hanna Maria Schmeiser, Marius Distler, Jürgen Weitz, Stefanie Speidel</i> <i>Presenter: Danush Kumar Venkatesh, National Centre for Tumor Diseases, Germany</i>
A365 (Fri-PM)	Learning from Sparse Point Labels for Dense Carcinosis Localization in Advanced Ovarian Cancer Assessment <i>Authors: Farahdiba Zarin, Riccardo Oliva, Vinkle Srivastav, Armine Vardazaryan, Andrea Rosati, Alice Zampolini Faustini, Giovanni Scambia, Anna Fagotti, Pietro Mascagni, Nicolas Padoy</i> <i>Presenter: Farahdiba Zarin, University of Strasbourg, France</i>
A372 (Fri-PM)	DiDGen: Diffusion-based Dual-task Synthesis for Dermoscopic Data Generation <i>Authors: Junjie Shentu, Matthew Watson, Noura Al Moubayed</i> <i>Presenter: Junjie Shentu, Durham University, United Kingdom</i>
B5 (Fri-PM)	Cerebrovascular Diseases Screening from Color Fundus Photography via Cross-View Fusion and Graph-Based Discrimination <i>Authors: Congyu Tian, Shihao Zou, Xiangyun Liao, Cheng Chen, Chubin Ou, Jianping Lv, Shanshan Wang, Weixin Si</i> <i>Presenter: Shihao Zou, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
B10 (Fri-PM)	BrainPrompt: Domain Adaptation with Prompt Learning for Multi-site Brain Network Analysis <i>Authors: Liuzeng Zhang, Lanting Li, Peng Cao, Jinzhu Yang, Osmar R. Zaiane</i>

Presenter: Osmar Zaiane, Northeastern University, China

B15 (Fri-PM)	Multi-view Graph Contrastive Learning with Dynamic Self-aware and Cross-sample Topology Augmentation for Brain Disorder Diagnosis <i>Authors: Hao Zhang, Xiaoyun Liu, Shuo Huang, Yonggui Yuan, Daoqiang Zhang, Li Zhang</i> <i>Presenter: Hao Zhang, Nanjing Forestry University, China</i>
B20 (Fri-PM)	Graph Disentanglement Learning for fMRI Analysis: Decoupling Disease, Covariates, and Individual Variability <i>Authors: Shengjie Zhang, Zhuangzhuang Jiang, Xin Shen, Ziqi Yu, Xiang Chen, Xiao-Yong Zhang, Yuan Zhou</i> <i>Presenter: Shengjie Zhang, Shanghai Jiao Tong University School of Medicine, China</i>
B25 (Fri-PM)	Conditional Graph Diffusion with Topological Constraints for Brain Network Generation <i>Authors: Joonhyuk Park, Donghyun Lee, Guorong Wu, Won Hwa Kim</i> <i>Presenter: Joonhyuk Park, Pohang University of Science and Technology, Republic of Korea</i>
B30 (Fri-PM)	ShareLink: Neuro-Inspired EEG-based Cross-Subject Emotion Recognition via Shared Bi-hemisphere <i>Authors: Zixuan Huang, Lingyao Kong, Licheng Ao, Shiyi Yao, An Xiang, Fen Miao</i> <i>Presenter: Zixuan Huang, Shenzhen institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
B35 (Fri-PM)	Robust Topographical Representation for Longitudinal Propagation of Tau Pathology <i>Authors: Jiaxin Yue, Jianwei Zhang, Xinkai Wang, Yonggang Shi</i> <i>Presenter: Jiaxin Yue, University of Southern California, United States</i>
B40 (Fri-PM)	Hierarchical Characterization of Brain Dynamics via State Space-based Vector Quantization <i>Authors: Yanwu Yang, Thomas Wolfers</i> <i>Presenter: Yanwu Yang, University of Tübingen, Germany</i>
B45 (Fri-PM)	A novel Fourier Adjacency Transformer for advanced EEG emotion recognition <i>Authors: Jinfeng Wang, Yanhao Huang, Sifan Song, Boqian Wang, Jionglong Su, Jiaman Ding</i> <i>Presenter: Jinfeng Wang, Kunming University of Science and Technology, China</i>
B50 (Fri-PM)	Concept-induced Graph Perception Model for Interpretable Diagnosis <i>Authors: Lei Zhao, Changjian Chen, Bin Pu, Xiaoming Qi, Fengfeng Peng, Chunlian Wang, Kenli Li, Guanghua Tan</i> <i>Presenter: Lei Zhao, Hunan University, China</i>
B55 (Fri-PM)	PRGNN: Pyramidal Region Graph Neural Network for Region-Based Brain PET Classification <i>Authors: Daesung Kim, Seungbeom Seo, Boosung Kim, Kyobin Choo, Youngjun Jun, Mijin Yun</i> <i>Presenter: Seungbeom Seo, Yonsei University, Republic of Korea</i>
B60 (Fri-PM)	Knowledge-guided Multi-scale Graph Mamba for Whole Slide Image Classification <i>Authors: Minghong Duan, Zhiwei Yang, Yingfan Ma, Manning Wang, Zhijian Song</i> <i>Presenter: Minghong Duan, Fudan University, China</i>
B65 (Fri-PM)	Endo-4DGX: Robust Endoscopic Scene Reconstruction and Illumination Correction with Gaussian Splatting <i>Authors: Yiming Huang, Long Bai, Beilei Cui, Yanheng Li, Tong Chen, Jie Wang, Jinlin Wu, Zhen Lei, Hongbin Liu, Hongliang Ren</i> <i>Presenter: Yiming Huang, The Chinese University of Hong Kong, Hong Kong SAR</i>
B70 (Fri-PM)	Core-Periphery Principle Guided State Space Model for Functional Connectome Classification <i>Authors: Minheng Chen, Xiaowei Yu, Jing Zhang, Tong Chen, Chao Cao, Yan Zhuang, Yanjun Lyu, Lu Zhang, Tianming Liu, Dajiang Zhu</i> <i>Presenter: Minheng Chen, University of Texas at Arlington, United States</i>
B75 (Fri-PM)	Cross-Modal Brain Graph Transformer via Function-Structure Connectivity Network for Brain Disease Diagnosis <i>Authors: Jingxi Feng, Heming Xu, Junhao Cai, Yujie Chang, Dong Zhang, Shaoyi Du, Juan Wang</i> <i>Presenter: Jingxi Feng, Xi'an Jiaotong University, China</i>
B80 (Fri-PM)	Explainable Classifier for Malignant Lymphoma Subtyping via Cell Graph and Image Fusion <i>Authors: Daiki Nishiyama, Hiroaki Miyoshi, Noriaki Hashimoto, Koichi Ohshima, Hidekata Hontani, Ichiro Takeuchi, Jun Sakuma</i> <i>Presenter: Daiki Nishiyama, Institute of Science Tokyo / RIKEN AIP, Japan</i>
B85 (Fri-PM)	Multiscale Graph and Multi-Step Cross-Frame Mamba for Myocarditis Lesion Segmentation <i>Authors: Chengjin Yu, Hao Zhang, Yuanting Yan, Dong Zhang, Sangyin Lv, Cailing Pu</i>

Presenter: Hao Zhang, Anhui University, China

B90 (Fri-PM)	Unsupervised Anomaly Detection on Preclinical Liver H&E Whole Slide Images using Graph based Feature Distillation Authors: Lin Li, Lillie Shelton, Thomas Forest, Kyathanahalli Janardhan, Tiffany Jenkins, Michael J. Napolitano, Roujia Wang, David Leigh, Tosha Shah, Grady Earl Carlson, Rajath Soans, Antong Chen Presenter: Lin Li, Merck & Co., Inc., United States
B95 (Fri-PM)	Heterogeneous Masked Attention-Guided Path Convolution for Functional Brain Network Analysis Authors: Jiakun Xu, Xin Zhang, Tong Xiong, Shengxian Chen, Xiaofen Xing, Jindou Hao, Xiangmin Xu Presenter: Jiakun Xu, South China University of Technology, China
B100 (Fri-PM)	GPU Accelerated Modeling of Cortical Radial and Tangential Connectivity Changes in Neurodegeneration Authors: Hongbo Zhang, Xinyu Nie, Jiaxin Yue, Yuan Li, John Ringman, Yonggang Shi Presenter: Hongbo Zhang, University of Southern California, United States
Paper Highlight	
B105 (Fri-PM)	DHGFormer: Dynamic Hierarchical Graph Transformer for Disorder Brain Disease Diagnosis Authors: Rundong Xue, Hao Hu, Zeyu Zhang, Xiangmin Han, Juan Wang, Yue Gao, Shaoyi Du Presenter: Rundong Xue, Xi'an Jiaotong University, China
B110 (Fri-PM)	Multimodal Hypergraph Guide Learning for Non-Invasive ccRCC Survival Prediction Authors: Jielong Yan, Xiangmin Han, Jieyi Zhao, Yue Gao Presenter: Jielong Yan, Tsinghua University, China
B115 (Fri-PM)	Brain activation mapping based on Regional Synchronization of fMRI signals embedded in Graph Eigenmodes Authors: Zhenyu Tang, Yu Zhao, Yang Yang, Xiaoyu Liu, Jingyong Su Presenter: Jingyong Su, Harbin Institute of Technology, China
B120 (Fri-PM)	Dual-Stream Multi-Band Fusion Network for Dynamic Functional Connectivity Analysis in Brain Disorder Classification Authors: Ling Wu, Hexi Li, Zhengyuan Lyu, Zhiwei Song, Hu Yu, Xiaojuan Guo Presenter: Ling Wu, Beijing Normal University, China
B125 (Fri-PM)	T&F-DFC FusionNet: Time&Frequency-Dynamic Functional Connectivity Fusion Network for ADHD Diagnosis in Children based on fNIRS Authors: Mengxiang Chu, Yunxiang Ma, Xiaowei He, Xiao Li, Jiaojiao Ren, Zhengyu Zhong, Jingjing Yu, Hongbo Guo Presenter: Mengxiang Chu, Northwest University, China
B130 (Fri-PM)	Probabilistic Integration of Renal Cancer Radiology and Pathology Using Graph Neural Networks Authors: Shangqi Gao, Shangde Gao, Ines Machado, Mireia Crispin-Ortuzar Presenter: Shangqi Gao, University of Cambridge, United Kingdom
B135 (Fri-PM)	Cross-Modal Graph Learning for Perivascular Spaces Segmentation Authors: Tao Chen, Dan Zhang, Xi Long, Marcel Breeuwer, Sveta Zinger, Peiyu Huang, Jiong Zhang Presenter: Dan Zhang, Ningbo University of Technology, China
B140 (Fri-PM)	Ada-FCN: Adaptive Frequency-Coupled Network for fMRI-Based Brain Disorder Classification Authors: Yue Xun, Jiaxing Xu, Wenbo Gao, Chen Yang, Shujun Wang Presenter: Yue Xun, Hong Kong Polytechnic University, Hong Kong SAR
B145 (Fri-PM)	Brain-Environment Cross-Attention (BECA) Meta-Matching: A New Perspective of Brain Connectome Zero-Shot Learning Authors: Ziquan Wei, Tingting Dan, Guorong Wu Presenter: Ziquan Wei, University of North Carolina at Chapel Hill, United States
B150 (Fri-PM)	pyOpenNFT: an open-source Python framework for ML-based real-time fMRI and EEG-fMRI neurofeedback Authors: Ekaterina Antipushina, Nikita Davydov, Riccardo De Feo, Evgeny Prilepin, Artem Nikonorov, Yury Koush Presenter: Ekaterina Antipushina, Skolkovo Institute of Science and Technology, Russia
Paper Highlight	
B155 (Fri-PM)	Explainable Integrative Bipartite Graph Convolutional Neural Network for Predicting Ejection Fraction in Echocardiography Authors: Seungeun Lee, Jaeyoung Kim, Kyungtae Kang, Mingon Kang Presenter: Seungeun Lee, Hanyang University, Republic of Korea
B160 (Fri-PM)	BrainPrompt: Multi-Level Brain Prompt Enhancement for Neurological Condition Identification

Authors: Jiaxing Xu, Kai He, Yue Tang, Wei Li, Mengcheng Lan, Xia Dong, Yiping Ke, Mengling Feng
Presenter: Kai He, National University of Singapore, Singapore

B165 (Fri-PM)	Integrating meta-analysis in multi-modal brain studies with graph-based attention transformer Authors: Hyounghsin Choi, Sunghun Kim, Jong-eun Lee, Bo-yong Park, Hyunjin Park Presenter: Hyounghsin Choi, Sungkyunkwan University, Republic of Korea
B170 (Fri-PM)	MoST-IG: Morphology-Guided Spatial Transcriptomics Integration via Visual-Genomic Graph Optimal Transport Authors: Liting Yu, Tao Ma, Weiqin Zhao, Zhuo Liang, Lequan Yu Presenter: Liting Yu, The University of Hong Kong, China
B175 (Fri-PM)	Various Attention Mechanism Graph Convolutional Network with Multi-Source Domain Adaptation for Cross-Subject EEG Emotion Recognition Authors: Shuo Shi, Xulei Zheng, Taiyi Wu, Xiaoke Hao Presenter: Xiaoke Hao, Hebei University of Technology, China
B180 (Fri-PM)	Multi-Sensory Cognitive Computing for Learning Population-level Brain Connectivity Authors: Mayssa Soussia, Mohamed Ali Mahjoub, Islem Rekik Presenter: Mayssa Soussia, ENISO, Tunisia
B185 (Fri-PM)	LG-DBGL: Lateralization-Guided Dissociative Brain Graph Learning for Alzheimer’s Disease Identification Authors: Jiazhen Ye, Manman Yuan, Junlin Li, Weiming Jia, Jiacheng Wang, Jiapei Li Presenter: Jiazhen Ye, Inner Mongolia University, China
B190 (Fri-PM)	Anatomy-Guided Multimodal Graph Networks for Alzheimer’s Disease: Integrative Analysis of Cross-Modal Brain Connectivity Signatures Authors: Wenzheng Hu, Zhenghua Guan, Peng Yang, Jiaqiang Li, Yi Liu, Shushen Gan, Tuo Cai, Ao Zhang, Tengda Zhang, Junlong Qu, Shaolong Wang, Gege Cai, Xiang Dong, Tianfu Wang, Baiying Lei Presenter: Wenzheng Hu, Shenshen University, China
B195 (Fri-PM)	Multi-Modal Graph-Based Machine Learning for Predicting Surgical Outcome in Epilepsy Patients Authors: Artur Arturi Aharonyan, Syeda Abeera Amir, Nunthasiri Wittayanakorn, Marius George Lingurar, Chima Oluigbo, Syed Muhammad Anwar Presenter: Abeera Amir, Childrens National Hospital, United States
B200 (Fri-PM)	Does Connectome Harmonic Analysis pass the Spin Test? Authors: Raphaël Vock, Antoine Grigis, Benoît Dufumier, Edouard Duchesnay Presenter: Raphaël Vock, CEA, NeuroSpin, Université Paris-Saclay, France
B205 (Fri-PM)	Hyperbolic Kernel GCN with Structure-Function Connectivity Coupling for Neurocognitive Impairment Analysis Authors: Meimei Yang, Yongheng Sun, Qianqian Wang, Wei Wang, Hong-Jun Li, Mingxia Liu Presenter: Qianqian Wang, University of North Carolina at Chapel Hill, United States
B210 (Fri-PM)	Robust Incomplete-Modality Alignment for Ophthalmic Disease Grading and Diagnosis via Labeled Optimal Transport Authors: Qinkai Yu, Jianyang Xie, Yitian Zhao, Cheng Chen, Lijun Zhang, Liming Chen, Jun Cheng, Lu Liu, Yalin Zheng, Yanda Meng Presenter: Qinkai Yu, University of Exeter, United Kingdom
B215 (Fri-PM)	MMBNA: Masked Multiview Brain Network Analysis via Disentangling for Alzheimer’s Early Diagnosis with fMRI Authors: Dequan Meng, Jie Guo, Junze Wang, Xiaoming Xi, Lishan Qiao, Limei Zhang, Mingxia Liu Presenter: Dequan Meng, Shandong Jianzhu University, China
B220 (Fri-PM)	The Refining of Brain Connectivity Features on Residual Posterior Patterns Authors: Xinbei Zha, Jiaming Zhang, Jin Gu Presenter: Xinbei Zha, Southwest Jiaotong University, China
B225 (Fri-PM)	Graph-based Neighbor-Aware Network for Gaze-Supervised Medical Image Segmentation Authors: Shaoxuan Wu, Jingkun Chen, Zhuo Jin, Peilin Zhang, Zhizezhang Gao, Jun Feng, Xiao Zhang, Dinggang Shen Presenter: Shaoxuan Wu, Northwest University, China
B230 (Fri-PM)	Graph-PAVNet: A Graph-Based Learning Framework for Pulmonary Artery and Vein Separation Using Multimodal Feature Sampling Authors: Qingya Li, Ye Yuan, Lu Liu, Nan Bao, Lisheng Xu, Wenjun Tan Presenter: Qingya Li, Northeastern University, China

B235 (Fri-PM)	Knowledge-Enhanced Complementary Information Fusion with Temporal Heterogeneous Graph Learning for Disease Prediction <i>Authors: Zongbao Yang, Shihuan He, Zhichen Chen, Hao Zhang, Ruxin Wang</i> <i>Presenter: Zongbao Yang, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
B240 (Fri-PM)	Semantically Consistent Discrete Diffusion for 3D Biological Graph Modeling <i>Authors: Chinmay Prabhakar, Suprosanna Shit, Tamaz Amiranashvili, Hongwei Bran Li, Bjoern Menze</i> <i>Presenter: Chinmay Prabhakar, University of Zurich, Switzerland</i>
B245 (Fri-PM)	DEFUSE-MS: Deformation Field-Guided Spatiotemporal Graph-Based Framework for Multiple Sclerosis New Lesion Detection <i>Authors: Mostafa Salem, Salma Hassan, Vijay Ram Kumar Papineni, Ayman Elsayed, Mohammad Yaqub</i> <i>Presenter: Mostafa Salem, Mohamed Bin Zayed University of Artificial Intelligence, United Arab Emirates</i>
Paper Highlight	
B250 (Fri-PM)	Brain Wiring Knowledge Graph Reasoning: A Region Embedding Approach for Logical Neuronal Relation Inference <i>Authors: Zhengyun Zhou, Guojia Wan, Fei Liao, Wenbin Hu, Minghui Liao, Junchao Qiu, Xinyuan Li, Bo Du</i> <i>Presenter: Zhengyun Zhou, Wuhan University, China</i>
B255 (Fri-PM)	Task-aligned fMRI Generation Model for Brain Disorder Diagnosis <i>Authors: Yifan Li, Xiaotong Wu, Xiaocai Zhang, Haiteng Jiang, Weiwen Wu, Dinggang Shen, Jianjia Zhang</i> <i>Presenter: Yifan Li, Shenzhen Campus of Sun Yat-sen University, China</i>
B260 (Fri-PM)	CAPE: Connectivity-Aware Path Enforcement Loss for Curvilinear Structure Delineation <i>Authors: Elyar Esmaeilzadeh, Ehsan Garaaghaji, Farzad Hallaji Azad, Doruk Oner</i> <i>Presenter: Doruk Oner, Bilkent University, Turkey</i>
B265 (Fri-PM)	TReND: Transformer derived features and Regularized NMF for neonatal functional network Delineation <i>Authors: Sovesh Mohapatra, Minhui Ouyang, Shufang Tan, Jianlin Guo, Lianglong Sun, Yong He, Hao Huang</i> <i>Presenter: Sovesh Mohapatra, University of Pennsylvania, United States</i>
B270 (Fri-PM)	Adaptive Graph Learning with Multi-Graph Convolutions for Brain Disorder Classification <i>Authors: Fuad Noman, Raphaël C.-W. Phan, Hernando Ombao, Chee-Ming Ting</i> <i>Presenter: Fuad Noman, Monash University Malaysia, Malaysia</i>
B275 (Fri-PM)	BiSCoT: Behavior-Informed Subgroup-Consistent Connectome Template for Interpretable Brain Network Analysis <i>Authors: Zijian Chen, Stefen Beeler-Duden, Sophie Lawson, Zachary Jacokes, John Darrell Van Horn, Kevin A. Pelphrey, Archana Venkataraman</i> <i>Presenter: Zijian Chen, Boston University, United States</i>
B280 (Fri-PM)	Edge-Aware Hierarchical Graph Transformer to Decode Brain Arterial Network <i>Authors: Kaiyu Zhang, Li Chen, Wenjin Liu, Taewon Kim, Xin Wang, Yin Guo, Zhiwei Tan, Zhensen Chen, Angie Tang, Xihai Zhao, Thomas S. Hatsukami, Mahmud Mossa-Basha, Niranjana Balu, Chun Yuan</i> <i>Presenter: Zhiwei Tan, University of Washington, United States</i>
B285 (Fri-PM)	SPromptGL: Semantic Prompt Guided Graph Learning for Multi-modal Brain Disease <i>Authors: Xixi Wan, Bo Jiang, Shihao Li, Aihua Zheng</i> <i>Presenter: Xixi Wan, Anhui University, China</i>
B290 (Fri-PM)	Bipartite Patient-Modality Graph Learning with Event-Conditional Modelling of Censoring for Cancer Survival Prediction <i>Authors: Hailin Yue, Hulin Kuang, Jin Liu, Junjian Li, Lanlan Wang, Mengshen He, Jianxin Wang</i> <i>Presenter: Hailin Yue, Central South University, China</i>
Paper Highlight	
B295 (Fri-PM)	ClinGRAD: Clinically-Guided Genomics and Radiomics Interpretable GNN for Dementia Diagnosis <i>Authors: Salma Hassan, Mostafa Salem, Vijay Ram Kumar Papineni, Ayman Elsayed, Mohammad Yaqub</i> <i>Presenter: Salma Hassan, Mohamed Bin Zayed University of Artificial Intelligence, United Arab Emirates</i>
B300 (Fri-PM)	Graph Laplacian Transformer with Progressive Sampling for Prostate Cancer Grading <i>Authors: Masum Shah Junayed, John Derek Van Vessel, Qian Wan, Gahie Nam, Sheida Nabavi</i>

Presenter: Sheida Nabavi, University of Connecticut, United States

B305 (Fri-PM)	MindLink: Subject-agnostic Cross-Subject Brain Decoding Framework Authors: Sungyoon Jung, Donghyun Lee, Won Hwa Kim Presenter: Won Hwa Kim, Pohang University of Science and Technology, Republic of Korea
B310 (Fri-PM)	A Model Order-Free Method for Stable States Extraction in Dynamic Functional Connectivity Authors: Songke Fang, Vince D. Calhoun, Godfrey Pearlson, Peter Kochunov, Theo G.M. van Erp, Yuhui Du Presenter: Songke Fang, Shanxi University, China
B315 (Fri-PM)	Causality-Inspired Graph Neural Network for Interpretable Strabismus Subtype Classification Authors: Jiawen Zheng, Li Luo, Jiafan Zhuang, Peiwei Wei, Lihao Zhong, Xiaoling Xie, Jinming Guo, Meng Xie, Xiaoli Kang, Jie Cen, Lingyan Dong, Ce Zheng, Zhun Fan Presenter: Jiawen Zheng, Shantou University, China
B320 (Fri-PM)	A Novel Streamline-based diffusion MRI Tractography Registration Method with Probabilistic Keypoint Detection Authors: Junyi Wang, Mubai Du, Ye Wu, Yijie Li, William M. Wells III, Lauren J. O'Donnell, Fan Zhang Presenter: Junyi Wang, University of Electronic Science and Technology of China, China
B325 (Fri-PM)	MedGNN: General Medical Image Recognition Network via GNN Visual Representations Authors: Jiayu Ye, An Zeng, Dan Pan, Junhao Chen, Guanwei Cheng Presenter: An Zeng, Guangdong University of Technology, China
C5 (Fri-PM)	Mamba Guided Boundary Prior Matters: A New Perspective for Generalized Polyp Segmentation Authors: Tapas K. Dutta, Snehashis Majhi, Deepak Ranjan Nayak, Debesh Jha Presenter: Deepak Ranjan Nayak, Malaviya National Institute of Technology Jaipur, India
C10 (Fri-PM)	Guided Augmentation for Monocular Depth Estimation in Cell Microscopy Authors: Abhishek Viswanathan, Rajagopalan A.N., Nikhil Yelamathy, Ankit Rai, Pradeep Ramachandran Presenter: Abhishek Viswanathan, KLA Corporation, India
C15 (Fri-PM)	Unsupervised Quality Control and Enhancement of Polyp Segmentation in Colonoscopy Videos using Spatiotemporal Consistency Authors: Yujia Li, Tao Zhou, Ruixuan Wang, Shuo Wang, Yizhe Zhang Presenter: Yujia Li, Nanjing University of Science and Technology, China
C20 (Fri-PM)	Anatomy-based Self-supervised Pre-training for Scale-robust Hierarchical Representations in Chest X-rays Authors: Surong Chu, Yan Qiang, Guohua Ji, Xueting Ren, Lijing Zhang, Baoping Jia, Yangyang Wei, Juanjuan Zhao, Shuo Li Presenter: Surong Chu, Taiyuan University of Technology, China
C25 (Fri-PM)	SAMUSA: Segment Anything Model 2 for UltraSound Annotation Authors: Baptiste Podvin, Toby Collins, Günther Saibro, Chiara Innocenzi, Yuchuan Yang, Flavio Milana, Yvonne Keeza, Grace Ufitinema, Florian Ujemurwego, Guido Torzilli, Jacques Marescaux, Daniel George, Alexandre Hostettler, Presenter: Baptiste Podvin, IRCAD France, France
C30 (Fri-PM)	ADA: An Adaptive Augmentation Framework for Single-Source Domain Generalization in Medical Image Segmentation Authors: Runlin Huang, Hongmin Cai, Weipeng Zhuo, Shangyan Cai, Haowei Lin, Wentao Fan, Weifeng Su Presenter: Runlin Huang, Beijing Normal-Hong Kong Baptist University, China
C35 (Fri-PM)	DINO Adapted to X-Ray (DAX): Foundation Models for Intraoperative X-Ray Imaging Authors: Joshua Scheuplein, Maximilian Rohleder, Andreas Maier, Björn Kreher Presenter: Joshua Scheuplein, Friedrich-Alexander-Universität Erlangen-Nürnberg & Siemens Healthineers AG, Germany
C40 (Fri-PM)	A Two-Stage Method for Specular Highlight Detection and Removal in Medical Images Authors: Zefeng Li, Mingyue Cui, Daosong Hu, Jin Gong, Jingchong Weng, Zeyu Zhang, Lele Tian, Mengran Li, Kai Huang Presenter: Zefeng Li, Sun Yat-sen University, China
C45 (Fri-PM)	HARM3-Fusion: Hierarchical Attentional Representation Learning of Multi-Modal, Multi-Temporal, and Multi-Sequence Fusion for Pathological Complete Response Prediction of Head and Neck Squamous Cell Carcinoma

Authors: Jianye Wang, Xinyue Liu, Zhiying Gong, Lingjie Yang, Hanwen Zhang, Yu Long, Yimeng Fan, Yuncheng Jiang, Xiaohui Duan, Weibing Zhao
Presenter: Jianye Wang, Shenzhen MSU-BIT University, China

C50 (Fri-PM)	Pre-Trained LLM is a Semantic-Aware and Generalizable Segmentation Booster Authors: Fenghe Tang, Wenxin Ma, Zhiyang He, Xiaodong Tao, Zihang Jiang, S. Kevin Zhou Presenter: Fenghe Tang, University of Science and Technology of China, China
C55 (Fri-PM)	A Novel ED Triage Framework Using Conditional Imputation, Multi-Scale Semantic Learning, and Cross-Modal Fusion Authors: Yi Xiao, Jun Zhang, Cheng Chi, Chunyu Wang Presenter: Yi Xiao, Southeast University, China
C60 (Fri-PM)	Temporally-Aware Supervised Contrastive Learning for Polyp Counting in Colonoscopy Authors: Luca Parolari, Andrea Cherubini, Lamberto Ballan, Carlo Biffi Presenter: Luca Parolari, University of Padova, Italy
C65 (Fri-PM)	Source-Free Active Domain Adaptation for Efficient Medical Video Polyp Segmentation Authors: Jialu Li, Hongqiu Wang, Weiming Wang, Jing Qin, Qiong Wang, Lei Zhu Presenter: Jialu Li, The Hong Kong University of Science and Technology (Guangzhou), China
C70 (Fri-PM)	BioD2C: A Dual-level Semantic Consistency Constraint Framework for Biomedical VQA Authors: Zhengyang Ji, Shang Gao, Li Liu, Yifan Jia, Yutao Yue Presenter: Zhengyang Ji, Shandong University, China
C75 (Fri-PM)	NERO: Explainable Out-of-Distribution Detection with Neuron-level Relevance in Gastrointestinal Imaging Authors: Anju Chhetri, Jari Korhonen, Prashnna Gyawali, Binod Bhattarai Presenter: Anju Chhetri, NepAI Applied Mathematics and Informatics Institute for research, Nepal
C80 (Fri-PM)	SurgSora: Object-Aware Diffusion Model for Controllable Surgical Video Generation Authors: Tong Chen, Shuya Yang, Junyi Wang, Long Bai, Hongliang Ren, Luping Zhou Presenter: Tong Chen, The University of Sydney, Australia
C85 (Fri-PM)	TGSAM-2: Text-Guided Medical Image Segmentation using Segment Anything Model 2 Authors: Runtian Yuan, Ling Zhou, Jilan Xu, Qingqiu Li, Mohan Chen, Yuejie Zhang, Rui Feng, Tao Zhang, Shang Gao Presenter: Runtian Yuan, Fudan University, China
C90 (Fri-PM)	HRVVS: A High-resolution Video Vasculature Segmentation Network via Hierarchical Autoregressive Residual Priors Authors: Xincheng Yao, Yijun Yang, Kangwei Guo, Ruiqiang Xiao, Haipeng Zhou, Haisu Tao, Jian Yang, Lei Zhu Presenter: Xincheng Yao, The Hong Kong University of Science and Technology (Guangzhou), China
C95 (Fri-PM)	EndoGen: Conditional Autoregressive Endoscopic Video Generation Authors: Xinyu Liu, Hengyu Liu, Cheng Wang, Tianming Liu, Yixuan Yuan Presenter: Yixuan Yuan, The Chinese University of Hong Kong, Hong Kong SAR
C100 (Fri-PM)	Memory-Augmented SAM2 for Training-Free Surgical Video Segmentation Authors: Ming Yin, Fu Wang, Xujiong Ye, Yanda Meng, Zeyu Fu Presenter: Ming Yin, University of Exeter, United Kingdom
C105 (Fri-PM)	Enjoying Information Dividend: Gaze Track-based Medical Weakly Supervised Segmentation Authors: Zhisong Wang, Yiwen Ye, Ziyang Chen, Yong Xia Presenter: Zhisong Wang, Northwestern Polytechnical University, China
C110 (Fri-PM)	Hybrid Graph Mamba: Unlocking Non-Euclidean Potential for Accurate Polyp Segmentation Authors: Yueyue Zhu, Haolin Lv, Geng Chen, Zhonghao Zhang, Haotian Jiang, Yong Xia Presenter: Yueyue Zhu, Northwestern Polytechnical University, China
C115 (Fri-PM)	UWT-Net: Mining low-frequency feature information for medical image segmentation Authors: Pengcheng Zhang, Xiaocao Ouyang, Ran Peng Presenter: Pengcheng Zhang, Sichuan Agricultural University, China
C120 (Fri-PM)	BCRNet: Enhancing Landmark Detection in Laparoscopic Liver Surgery via Bezier Curve Refinement Authors: Qian Li, Feng Liu, Shuojue Yang, Daiyun Shen, Yueming Jin Presenter: Qian Li, National University of Singapore, Singapore

C125 (Fri-PM)	Tetra-orientated Mamba with T2-FLAIR Mismatch Features for Glioma Segmentation, IDH Genotyping, and Grading <i>Authors: Xinyu Li, Jin Liu, Hulin Kuang, Yuanzhuo Wang, Jianxin Wang</i> <i>Presenter: Xinyu Li, Central South University, China</i>
C130 (Fri-PM)	EndoMetric: Near-Light Monocular Metric Scale Estimation in Endoscopy <i>Authors: Raúl Iranzo, Víctor M. Batlle, Juan D. Tardós, José M. M. Montiel</i> <i>Presenter: Raúl Iranzo, I3A. Universidad de Zaragoza, Spain</i>
C135 (Fri-PM)	Adaptively Distilled ControlNet: Accelerated Training and Superior Sampling for Medical Image Synthesis <i>Authors: Kunpeng Qiu, Zhiying Zhou, Yongxin Guo</i> <i>Presenter: Kunpeng Qiu, National University of Singapore, Singapore</i>
C140 (Fri-PM)	SemiVT-Surge: Semi-Supervised Video Transformer for Surgical Phase Recognition <i>Authors: Yiping Li, Ronald de Jong, Sahar Nasirihaghighi, Tim Jaspers, Romy van Jaarsveld, Gino Kuiper, Richard van Hillegersberg, Fons van der Sommen, Jelle Ruurda, Marcel Breeuwer, Yasmina Al Khalil</i> <i>Presenter: Yiping Li, Eindhoven University of Technology, The Netherlands</i>
C145 (Fri-PM)	KMUNet: A novel medical image segmentation model based on KAN and Mamba <i>Authors: Hongsheng Zhang, Yuting Duan, Ting Liu, Weifeng Zhang, Hongzhong Tang</i> <i>Presenter: Hongzhong Tang, Xiangtan University, China</i>
C150 (Fri-PM)	Stronger Together: Registering Preoperative Imagery, LUS, and MIS Liver Images <i>Authors: Mohammad Mahdi Kalantari, Erol Ozgur, Mohammad Alkhatib, Navid Rabbani, Yamid Espinel, Richard Modrzejewski, Bertrand Le Roy, Emmanuel Buc, Youcef Mezouar, Adrien Bartoli</i> <i>Presenter: Mohammad Mahdi Kalantari, Clermont-Auvergne INP, France</i>
C155 (Fri-PM)	SR-SAM: Subspace Regularization for Domain Generalization of Segment Anything Model <i>Authors: Xixi Jiang, Chen Yang, Liang Zhang, Tim Kwang-Ting Cheng, Xin Yang</i> <i>Presenter: Xixi Jiang, The Hong Kong University of Science and Technology, Hong Kong SAR</i>
C160 (Fri-PM)	Dual-Branch Dynamic Coupling Weakly Supervised Learning for Class-Incremental Histopathological Region Segmentation <i>Authors: Xiaoyan Hong, Jiansong Fan, Zhaozhong Deng, Xiang Pan</i> <i>Presenter: Xiaoyan Hong, Jiangnan University, China</i>
C165 (Fri-PM)	CD-PolypNet: Cross-Domain Polyp Segmentation Network with Internal Feature Distillation and Dual-Stream Boundary Focus via Large Vision Model <i>Authors: Changpeng Yue, Jianxiang Zhao, Chao Wang, Xinglun Zhao, Axiu Mao, Jia Hou, Chenggang Yan, Kai Zhao, Shuai Wang</i> <i>Presenter: Changpeng Yue, Hangzhou Dianzi University, China</i>
C170 (Fri-PM)	Accurate Boundary Alignment and Realism Enhancement for Colonoscopic Polyp Image-Mask Pair Generation <i>Authors: Riyu Qiu, Kun Xia, Feng Gao, Shuting Yang, Du Cai, Jiacheng Wang, Yinran Chen, Liansheng Wang</i> <i>Presenter: Riyu Qiu, Xiamen University, China</i>
C175 (Fri-PM)	Think as Cardiac Sonographers: Marrying SAM with Left Ventricular Indicators Measurements According to Clinical Guidelines <i>Authors: Tuo Liu, Qinghan Yang, Yu Zhang, Rongjun Ge, Yang Chen, Guangquan Zhou</i> <i>Presenter: Tuo Liu, Southeast University, China</i>
C180 (Fri-PM)	Prolog-Driven Rule-Based Diagnostics with Large Language Models for Precise Clinical Decision Support <i>Authors: Xiaoyu Tan, Bin Li, Weidi Xu, Chao Qu, Wei Chu, Yinghui Xu, Yuan Qi, Xihe Qiu</i> <i>Presenter: Bin Li, Shanghai University of Engineering Science, China</i>
C185 (Fri-PM)	Clinical Validation of Deep Learning for Real-Time Tissue Oxygenation Estimation Using Spectral Imaging <i>Authors: Jens De Winne, Siri Willems, Siri Luthman, Danilo Babin, Hiep Luong, Wim Ceelen</i> <i>Presenter: Jens De Winne, Ghent University, Belgium</i>
C190 (Fri-PM)	Self-supervised Axial Super-Resolution for Volume Microscopy via Diffusion-Guided Structure Distillation <i>Authors: Bohao Chen, Yanchao Zhang, Yanan Lv, Hua Han, Xi Chen</i> <i>Presenter: Bohao Chen, School of Advanced Interdisciplinary Sciences, University of Chinese Academy of Sciences, China</i>

C200 (Fri-PM)	A Diffusion-Driven Temporal Super-Resolution and Spatial Consistency Enhancement Framework for 4D MRI imaging <i>Authors: Xuanru Zhou, Jiarun Liu, Shoujun Yu, Hao Yang, Cheng Li, Tao Tan, Shanshan Wang</i> <i>Presenter: Xuanru Zhou, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
Paper Highlight	
C205 (Fri-PM)	SurgX: Neuron-Concept Association for Explainable Surgical Phase Recognition <i>Authors: Ka Young Kim, Hyeon Bae Kim, Seong Tae Kim</i> <i>Presenter: Ka Young Kim, Kyung Hee University, Republic of Korea</i>
C210 (Fri-PM)	Physics-Informed Neural Operators for Tissue Elasticity Reconstruction <i>Authors: Youjin Kim, Jae Yong Lee, Junseok Kwon</i> <i>Presenter: Youjin Kim, Chung-Ang University, Republic of Korea</i>
C215 (Fri-PM)	Memory-Augmented Incomplete Multimodal Survival Prediction via Cross-Slide and Gene-Attentive Hypergraph Learning <i>Authors: Mingcheng Qu, Guang Yang, Donglin Di, Yue Gao, Tonghua Su, Yang Song, Lei Fan</i> <i>Presenter: Guang Yang, Harbin Institute of Technology, China</i>
C220 (Fri-PM)	Hypergraph-Guided Federated Distillation Learning for Efficient and Robust Multi-Center fMRI Data Analysis <i>Authors: Tao Jin, Yidan Xu, Yuhan Gao, Xichun Sheng, Chenggang Yan, Yaoqi Sun, Xiangmin Han, Yue Gao</i> <i>Presenter: Yidan Xu, Hangzhou Dianzi University, China</i>
Paper Highlight	
C225 (Fri-PM)	DIY Challenge Blueprint: From Organization to Technical Realization in Biomedical Image Analysis <i>Authors: Leonard Klausmann, Tobias Rueckert, David Rauber, Raphaela Maerkl, Suemeyye R. Yildiran, Max Gutbrod, Christoph Palm</i> <i>Presenter: Leonard Klausmann, OTH Regensburg, Germany</i>
C230 (Fri-PM)	U-RWKV: Lightweight medical image segmentation with direction-adaptive RWKV <i>Authors: Hongbo Ye, Fenghe Tang, Peiang Zhao, Zhen Huang, Dexin Zhao, Minghao Bian, S. Kevin Zhou</i> <i>Presenter: Hongbo Ye, University of Science and Technology of China, China</i>
C235 (Fri-PM)	Implicit U-KAN2.0: Dynamic, Efficient and Interpretable Medical Image Segmentation <i>Authors: Chun-Wun Cheng, Yining Zhao, Yanqi Cheng, Javier A. Montoya-Zegarra, Carola-Bibiane Schönlieb, Angelica I. Aviles-Rivero</i> <i>Presenter: Chun-Wun Cheng, University of Cambridge, United Kingdom</i>
C240 (Fri-PM)	A New Paradigm for Low-dose PET/CT Reconstruction with Mamba-powered Progressive Network and Physics-informed Consistency <i>Authors: Zixin Tang, Caiwen Jiang, Zhiming Cui, Dinggang Shen</i> <i>Presenter: Zixin Tang, ShanghaiTech University, China</i>
C245 (Fri-PM)	Holistic White-light Polyp Classification via Alignment-free Dense Distillation of Auxiliary Optical Chromoendoscopy <i>Authors: Qiang Hu, Qimei Wang, Jia Chen, Xuanta Ji, Mei Liu, Qiang Li, Zhiwei Wang</i> <i>Presenter: Qiang Hu, Huazhong University of Science and Technology, China</i>
C250 (Fri-PM)	Multi-Linear 3D Craniofacial Infant Shape Model <i>Authors: Till N. Schnabel, Yoriko Lill, Benito K. Benitez, Gaspard Krief, Sebastián Tapia Corón, Friederike Prüfer, Philipp Metzler, Andreas A. Mueller, Markus Gross, Barbara Solenthaler</i> <i>Presenter: Till Schnabel, ETH Zurich, Switzerland</i>
C255 (Fri-PM)	Targeted False Positive Synthesis via Detector-guided Adversarial Diffusion Attacker for Robust Polyp Detection <i>Authors: Quan Zhou, Gan Luo, Qiang Hu, Qingyong Zhang, Jinhua Zhang, Yinjiao Tian, Qiang Li, Zhiwei Wang</i> <i>Presenter: Gan Luo, Wuhan University of Technology, China</i>
C260 (Fri-PM)	Learning Explainable Imaging-Genetics Associations Related to a Neurological Disorder <i>Authors: Jueqi Wang, Zachary Jacokes, John Darrell Van Horn, Michael C. Schatz, Kevin A. Pelphrey, Archana Venkataraman</i> <i>Presenter: Jueqi Wang, Boston University, United States</i>
C265 (Fri-PM)	Semantic Interpolative Diffusion Model: Bridging the Interpolation to Masks and Colonoscopy Image Synthesis for Robust Generalization <i>Authors: Chanyeong Heo, Jaehee Jung</i> <i>Presenter: Chanyeong Heo, Myongji University, Republic of Korea</i>

C270 (Fri-PM)	Automated Auditing of Upper Endoscopy Procedure Times: A Temporal Multiclass Analysis <i>Authors: Diego Bravo, Josué Ruano, Martín Gómez, Fabio A. González, Eduardo Romero</i> <i>Presenter: Diego Bravo, Universidad Nacional de Colombia, Colombia</i>
C275 (Fri-PM)	FViM: Frequency Vision Mamba for Label-Free Cell Death Pathway Prediction in Lung Cancer Chemotherapy <i>Authors: Zhaoyi Ye, Shubin Wei, Liye Mei, Yueyun Weng, Qing Geng, Du Wang, Cheng Lei</i> <i>Presenter: Zhaoyi Ye, Wuhan University, China</i>
C280 (Fri-PM)	RefineNet: Elevating Medical Foundation Models through Quality-Centric Data Curation by MLLM-Annotated Proxy Distillation <i>Authors: Ningyi Zhang, Yuan Gao, Xin Wang, Ka-Hou Chan, Jian Wu, Chan-Tong Lam, Shanshan Wang, Yue Sun, Sio-Kei Im, Tao Tan</i> <i>Presenter: Ningyi Zhang, Macao Polytechnic University, Macao SAR</i>
C285 (Fri-PM)	STMDiff: Spatiotemporal Matching Diffusion Model for Dual-Time-Point Total-body PET/CT Imaging via Contrastive Learning <i>Authors: Wenbo Li, Zhenxing Huang, Lianghua Li, Chunyan Yang, Yihan Wang, Wenjian Qin, Na Zhang, Hairong Zheng, Dong Liang, Jianjun Liu, Zhanli Hu</i> <i>Presenter: Wenjian Qin, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</i>
C290 (Fri-PM)	GE2Hist: Generating Histology Images from Single-cell Gene Expression via Cross-modal Generative Network <i>Authors: Hongmin Cai, Boan Ji, Shangyan Cai, Yi Liao, Jiazhou Chen, Weitian Huang</i> <i>Presenter: Hongmin Cai, South China University of Technology, China</i>
C295 (Fri-PM)	HWA-UNETR: Hierarchical Window Aggregate UNETR for 3D Multimodal Gastric Lesion Segmentation <i>Authors: Jiaming Liang, Lihuan Dai, Xiaoqi Sheng, Xiangguang Chen, Chun Yao, Guihua Tao, Qibin Leng, Hongmin Cai, Xi Zhong</i> <i>Presenter: Jiaming Liang, South China University of Technology, China</i>
C300 (Fri-PM)	LIP-CAR: a learned inverse problem approach for medical imaging with contrast agent reduction <i>Authors: Davide Evangelista, Elena Morotti, Sonia Colombo Serra, Pengpeng Luo, Giovanni Valbusa, Davide Bianchi</i> <i>Presenter: Elena Morotti, University of Bologna, Italy</i>
C305 (Fri-PM)	DyMAS-Net: Dynamic Multi-Scale Adaptive Sampling Network for Efficient Medical Image Segmentation <i>Authors: Siqi Wang, Qingxue Zhao, Di Wu, Jiakang Gao, Jun Tian</i> <i>Presenter: Jun Tian, Nankai University, China</i>
C310 (Fri-PM)	Endoscopic Depth-of-Field Expansion via Cascaded Network with Two-streamed Multi-scale Fusion <i>Authors: Xiang Deng, Xing Liu, Tian Xu, Xiaoyue Liu, Tianyuan Gan, Chen Lu, Congcong Zhou, Peng Wang, Yong Lei, Xuesong Ye</i> <i>Presenter: Xiang Deng, Zhejiang University, China</i>
C315 (Fri-PM)	PolyMamba: Spatial-prior Guided Mamba for Polyp Segmentation with High-Frequency Enhancement <i>Authors: Renyu Fu, Shurui Hu, Xiao Zheng, Chang Tang, Xinwang Liu</i> <i>Presenter: Renyu Fu, China University of Geosciences, China</i>
C320 (Fri-PM)	Medical Contrastive Learning of Positive and Negative Mentions <i>Authors: WeiLong Wu, Jingzhi Yang, Xun Zhu, Xiao Zhang, ZiYu Liu, Miao Li, Ji Wu</i> <i>Presenters: Miao Li and WeiLong Wu, Tsinghua University, China</i>
C325 (Fri-PM)	Knowing or Guessing? Robust Medical Visual Question Answering via Joint Consistency and Contrastive Learning <i>Authors: Songtao Jiang, Yuxi Chen, Sibó Song, Yan Zhang, Yeying Jin, Yang Feng, Jian Wu, Zuozhu Liu</i> <i>Presenter: Songtao Jiang, Zhejiang University, China</i>
C330 (Fri-PM)	Unsupervised Discovery of Spatiotypes and Context-Aware Graph Neural Networks for Modeling Clinical Endpoints <i>Authors: Muhammad Dawood, Emily Thomas, Rosalin Cooper, Carlo Pescia, Anna Sozanska, Hosuk Ryou, Daniel Royston, Jens Rittscher</i> <i>Presenter: Jens Rittscher, University of Oxford & Oxford Big Data Institute, United Kingdom</i>
C335 (Fri-PM)	Cross-Modal Contrastive Learning for Emotion Recognition: Aligning ECG with EEG-Derived Features

Authors: Yi Wu, Yuhang Chen, Jiahao Cui, Jiaji Liu, Lin Liang, Shuai Li
Presenter: Yuhang Chen, Beihang University, China