

# MICCAI 2023 Main Conference Oral and Poster Program

Monday, October 9

09:00 to 10:30

Oral 1: Clinical Translation I – MIC

Oral 2: Computational Pathology

<b>Oral 1: Clinical Translation I – MIC Monday, October 9, 09:00 to 10:30 Exhibit Hall A – Main Hall</b>		<b>Oral 2: Computational Pathology Monday, October 9, 09:00 to 10:30 Ballroom A – Parallel Hall</b>
09:00	Invited Session Speaker	Gene-induced Multimodal Pre-training for Image-omic Classification Speaker: Ting Jin, East China Normal University, China
09:15		NASDM: Nuclei-Aware Semantic Histopathology Image Generation Using Diffusion Models Speaker: Aman Shrivastava, University of Virginia, USA
09:30	Shifting More Attention to Breast Lesion Segmentation in Ultrasound Videos Speaker: Lei Zhu, The Hong Kong University of Science and Technology (Guangzhou), China	Multi-task Learning of Histology and Molecular Markers for Classifying Diffuse Glioma Speaker: Xiaofei Wang, University of Cambridge, United Kingdom
09:45	Foundation Ark: Accruing and Reusing Knowledge for Superior and Robust Performance Speaker: DongAo Ma, Arizona State University, USA	MulHiST: Multiple Histological Staining for Thick Biological Samples via Unsupervised Image-to-Image Translation Speaker: Lulin Shi, Hong Kong University of Science and Technology, China
10:00	Thinking Like Sonographers: A Deep CNN Model for Diagnosing Gout from Musculoskeletal Ultrasound Speaker: Zhi Cao, Nanjing University of Aeronautics and Astronautics, China	DAS-MIL: Distilling Across Scales for MIL Classification of Histological WSIs Speaker: Gianpaolo Bontempo, University of Modena and Reggio Emilia, Italy
10:15	CheXstray: A Real-Time Multi-Modal Monitoring Workflow for Medical Imaging AI Speaker: Jameson Merkow, Microsoft, USA	Pathology-and-genomics Multimodal Transformer for Survival Outcome Prediction Speaker: Kexin Ding, University of North Carolina at Charlotte, USA

13:00 to 14:30

Poster 1: Clinical Applications and Guidance, Computational Pathology

<b>Poster 1: Clinical Applications and Guidance, Computational Pathology</b>	
<b>Monday, October 9, 2023, 13:00 to 14:30</b>	
<b>Poster Hall</b>	
P01-001	A Closed-form Solution to Electromagnetic Sensor Based Intraoperative Limb Length Measurement in Total Hip Arthroplasty Tiancheng Li, Yang Song, Peter Walker, Kai Pan, Victor A van de Graaf, Liang Zhao, Shoudong Huang
P01-002	A Conditional Flow Variational Autoencoder for Controllable Synthesis of Virtual Populations of Anatomy Haoran Dou, Nishant Ravikumar, Alejandro F. Frangi
P01-003	A Modulatory Elongated Model for Delineating Retinal Microvasculature in OCTA Images Mohsin Challoob, Yongsheng Gao, Andrew Busch, Weichuan Zhang
P01-004	A Multi-Task Network for Anatomy Identification in Endoscopic Pituitary Surgery Adrito Das, Danyal Z. Khan, Simon C. Williams, John G. Hanrahan, Anouk Borg, Neil L. Dorward, Sophia Bano, Hani J. Marcus, Danail Stoyanov
P01-005	A Novel Video-CTU Registration Method with Structural Point Similarity for FURS Navigation Mingxian Yang, Yinran Chen, Bei Li, Zhiyuan Liu, Song Zheng, Jianhui Chen, Xiongbiao Luo
P01-006	A One-class Variational Autoencoder (OCVAE) cascade for classifying atypical bone marrow cell sub-types Jonathan Tarquino, Jhonathan Rodríguez, Charlems Alvarez-Jimenez, Eduardo Romero
P01-007	A Patient-Specific Self-supervised Model for Automatic X-ray/CT Registration Baochang Zhang, Shahrooz Faghihroohi, Mohammad Farid Azampour, Shuting Liu, Reza Ghotbi, Heribert Schunkert, Nassir Navab
P01-008	A Spatial-Temporally Adaptive PINN Framework for 3D Bi-Ventricular Electrophysiological Simulations and Parameter Inference Yubo Ye, Huafeng Liu, Xiajun Jiang, Maryam Toloubidokhti, Linwei Wang
P01-009	A Transfer Learning Approach to Localise a Deep Brain Stimulation Target Ying-Qiu Zheng, Harith Akram, Stephen Smith, Saad Jbabdi
P01-010	A Unified Deep-Learning-Based Framework for Cochlear Implant Electrode Array Localization Yubo Fan, Jianing Wang, Yiyuan Zhao, Rui Li, Han Liu, Robert F. Labadie, Jack H. Noble, Benoit M. Dawant
P01-011	ACT-Net: Anchor-context Action Detection in Surgery Videos Luoying Hao, Yan Hu, Wenjun Lin, Qun Wang, Heng Li, Huazhu Fu, Jinming Duan, Jiang Liu
P01-012	AirwayFormer: Structure-Aware Boundary-Adaptive Transformers for Airway Anatomical Labeling Weihao Yu, Hao Zheng, Yun Gu, Fangfang Xie, Jiayuan Sun, Jie Yang
P01-013	ALL-IN: A Local GLocal Graph-based Distillation Model for Representation Learning of Gigapixel Histopathology Images With Application In Cancer Risk Assessment Puria Azadi, Jonathan Suderman, Ramin Nakhli, Katherine Rich, Maryam Asadi, Sonia Kung, Htoo Oo, Mira Keyes, Hossein Farahani, Calum MacAulay, Larry Goldenberg, Peter Black, Ali Bashashati
P01-014	An AI-Ready Multiplex Staining Dataset for Reproducible and Accurate Characterization of Tumor Immune Microenvironment Parmida Ghahremani, Joseph Marino, Juan Hernandez-Prera, Janis V. de la Iglesia, Robbert JC Slebos, Christine H. Chung, Saad Nadeem
P01-015	An Anti-Biased TBSRTC-Category Aware Nuclei Segmentation Framework with A Multi-Label Thyroid Cytology Benchmark Junchao Zhu, Yiqing Shen, Haolin Zhang, Jing Ke

## Poster 1: Clinical Applications and Guidance, Computational Pathology

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### Poster Hall

P01-016	Analysis of Suture Force Simulations for Optimal Orientation of Rhomboid Skin Flaps Wenzhangzhi Guo, Ty Trusty, Joel C. Davies, Vito Forte, Eitan Grinspun, Lueder A. Kahrs
P01-017	AR2T: Advanced Realistic Rendering Technique for Biomedical Volumes Elena Denisova, Leonardo Manetti, Leonardo Bocchi, Ernesto Iadanza
P01-018	Artifact Restoration in Histology Images with Diffusion Probabilistic Models Zhenqi He, Junjun He, Jin Ye, Yiqing Shen
P01-019	atTRACTive: Semi-automatic white matter tract segmentation using active learning Robin Peretzke, Klaus H. Maier-Hein, Jonas Bohn, Yannick Kirchhoff, Saikat Roy, Sabrina Oberli-Palma, Daniela Becker, Pavlina Lenga, Peter Neher
P01-020	AUA-dE: An adaptive uncertainty guided attention for diffusion MRI models estimation Tianshu Zheng, Ruicheng Ba, Xiaoli Wang, Chuyang Ye, Dan Wu
P01-021	Automatic Surgical Reconstruction for Orbital Blow-out Fracture via Symmetric Prior Anatomical Knowledge-Guided Adversarial Generative Network Jiangchang Xu, Yining Wei, Huifang Zhou, Yinwei Li, Xiaojun Chen
P01-022	B-Cos Aligned Transformers Learn Human-Interpretable Features Manuel Tran, Amal Lahiani, Yashin Dicente Cid, Melanie Boxberg, Peter Lienemann, Christian Matek, Sophia J. Wagner, Fabian J. Theis, Eldad Klaiman, Tingying Peng
P01-023	Bridging ex-vivo training and intra-operative deployment for surgical margin assessment with Evidential Graph Transformer Amoon Jamzad, Fahimeh Fooladgar, Laura Connolly, Dilakshan Srikanthan, Ayesha Syeda, Martin Kaufmann, Kevin Y.M. Ren, Shaila Merchant, Jay Engel, Sonal Varma, Gabor Fichtinger, John F. Rudan, Parvin Mousavi
P01-024	Cascade Transformer Encoded Boundary-Aware Multibranch Fusion Networks for Real-Time and Accurate Colonoscopic Lesion Segmentation Ao Wang, Ming Wu, Hao Qi, Wenkang Fan, Hong Shi, Jianhua Chen, Sunkui Ke, Yinran Chen, Xiongbiao Luo
P01-025	CAT-ViL: Co-Attention Gated Vision-Language Embedding for Visual Question Localized-Answering in Robotic Surgery Long Bai, Mobarakol Islam, Hongliang Ren
P01-026	CellGAN: Conditional Cervical Cell Synthesis for Augmenting Cytopathological Image Classification Zhenrong Shen, Maosong Cao, Sheng Wang, Lichi Zhang, Qian Wang
P01-027	CenterlinePointNet++: A new point cloud based architecture for coronary artery pressure drop and vFFR estimation Patryk Rygiel, Paweł Płuszka, Maciej Zięba, Tomasz Konopczyński
P01-028	Clinical Evaluation of AI-assisted Virtual Contrast Enhanced MRI in Primary Gross Tumor Volume Delineation for Radiotherapy of Nasopharyngeal Carcinoma Wen Li, Dan Zhao, Zhi Chen, Zhou Huang, Saikit Lam, Yaoqin Xie, Wenjian Qin, Andy Lai-Yin Cheung, Haonan Xiao, Chenyang Liu, Francis Kar-Ho Lee, Kwok-Hung Au, Victor Ho-Fun Lee, Jing Cai, Tian Li
P01-029	CoactSeg: Learning from Heterogeneous Data for New Multiple Sclerosis Lesion Segmentation Yicheng Wu, Zhonghua Wu, Hengcan Shi, Bjoern Picker, Winston Chong, Jianfei Cai

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P01-030	Cochlear Implant Fold Detection in Intra-operative CT using Weakly Supervised Multi-Task Deep Learning Mohammad M.R. Khan, Yubo Fan, Benoit M. Dawant, Jack H. Noble
P01-031	Cortical analysis of heterogeneous clinical brain MRI scans for large-scale neuroimaging studies Karthik Gopinath, Douglas N. Greve, Sudeshna Das, Steve Arnold, Colin Magdamo, Juan Eugenio Iglesias
P01-032	Deep Cellular Embeddings: An Explainable Plug and Play Improvement for Feature Representation in Histopathology Jacob Gildenblat, Anil Yüce, Samaneh Abbasi Sureshjani, Konstanty Korski
P01-033	Deep Homography Prediction for Endoscopic Camera Motion Imitation Learning Martin Huber, Sébastien Ourselin, Christos Bergeles, Tom Vercauteren
P01-034	Deep Learning for Tumor-associated Stroma Identification in Prostate Histopathology Slides Zichen Wang, Mara Pleasure, Haoyue Zhang, Kimberly Flores, Anthony Sisk, William Speier, Corey W. Arnold
P01-035	Democratizing Pathological Image Segmentation with Lay Annotators via Molecular-empowered Learning Ruining Deng, Yanwei Li, Peize Li, Jiacheng Wang, Lucas W. Remedios, Saydolimkhon Agzamkhodjaev, Zuhayr Asad, Quan Liu, Can Cui, Yaohong Wang, Yihan Wang, Yucheng Tang, Haichun Yang, Yuankai Huo
P01-036	Detecting the Sensing Area of A Laparoscopic Probe in Minimally Invasive Cancer Surgery Baoru Huang, Yicheng Hu, Anh Nguyen, Stamatia Giannarou, Daniel S. Elson
P01-037	Developing Large Pre-trained Model for Breast Tumor Segmentation from Ultrasound Images Meiyu Li, Kaicong Sun, Yuning Gu, Kai Zhang, Yiqun Sun, Zhenhui Li, Dinggang Shen
P01-038	Domain-agnostic segmentation of thalamic nuclei from joint structural and diffusion MRI Henry F. J. Tregidgo, Sonja Soskic, Mark D. Olchanyi, Juri Althonayan, Benjamin Billot, Chiara Maffei, Polina Golland, Anastasia Yendiki, Daniel C. Alexander, Martina Bocchetta, Jonathan D. Rohrer, Juan Eugenio Iglesias
P01-039	Dynamic Functional Connectome Harmonics Hoyt Patrick Taylor IV, Pew-Thian Yap
P01-040	Efficient Spatiotemporal Learning of Microscopic Video for Augmented Reality-Guided Phacoemulsification Cataract Surgery Puxun Tu, Hongfei Ye, Jeff Young, Meng Xie, Ce Zheng, Xiaojun Chen
P01-041	Encoding Surgical Videos as Latent Spatiotemporal Graphs for Object and Anatomy-Driven Reasoning Aditya Murali, Deepak Alapatt, Pietro Mascagni, Armine Vardazaryan, Alain Garcia, Nariaki Okamoto, Didier Mutter, Nicolas Padoy
P01-042	EndoSurf: Neural Surface Reconstruction of Deformable Tissues with Stereo Endoscope Videos Ruyi Zha, Xuelian Cheng, Hongdong Li, Mehrtash Harandi, Zongyuan Ge
P01-043	Estimated time to surgical procedure completion: An exploration of video analysis methods Barak Ariel, Yariv Colbeci, Judith Rapoport Ferman, Dotan Asselmann, Omri Bar
P01-044	Flexible Unfolding of Circular Structures for Rendering Textbook-Style Cerebrovascular Maps Leonhard Rist, Oliver Taubmann, Hendrik Ditt, Michael Sühling, Andreas Maier

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P01-045	FLIm-based In Vivo Classification of Residual Cancer in the Surgical Cavity during Transoral Robotic Surgery Mohamed A. Hassan, Brent Weyers, Julien Bec, Jinyi Qi, Dorina Gui, Arnaud Bewley, Marianne Abouyared, Gregory Farwell, Andrew Birkeland, Laura Marcu
P01-046	Flow-based Geometric Interpolation of Fiber Orientation Distribution Functions Xinyu Nie, Yonggang Shi
P01-047	FocalErrorNet: Uncertainty-aware focal modulation network for inter-modal registration error estimation in ultrasound-guided neurosurgery Soorena Salari, Amirhossein Rasoulian, Hassan Rivaz, Yiming Xiao
P01-048	Forensic Histopathological Recognition via a Context-Aware MIL Network Powered by Self-Supervised Contrastive Learning Chen Shen, Jun Zhang, Xinggong Liang, Zeyi Hao, Kehan Li, Fan Wang, Zhenyuan Wang, Chunfeng Lian
P01-049	Forward-solution aided deep-learning framework for patient-specific noninvasive cardiac ectopic pacing localization Yashi Li, Huihui Ye, Huafeng Liu
P01-050	From Tissue to Sound: Model-based Sonification of Medical Imaging Sasan Matinfar, Mehrdad Salehi, Shervin Dehghani, Nassir Navab
P01-051	Gene-induced Multimodal Pre-training for Image-omic Classification Ting Jin, Xingran Xie, Renjie Wan, Qingli Li, Yan Wang
P01-052	Geometric Ultrasound Localization Microscopy Christopher Hahne, Raphael Sznitman
P01-053	Geometry-adaptive Network for Robust Detection of Placenta Accreta Spectrum Disorders Zailiang Chen, Jiang Zhu, Hailan Shen, Hui Liu, Yajing Li, Rongchang Zhao, Feiyang Yu
P01-054	GLSFormer : Gated - Long, Short Sequence Transformer for Step Recognition in Surgical Videos Nisarg A. Shah, Shameema Sikder, S. Swaroop Vedula, Vishal M. Patel
P01-055	High-Quality Virtual Single-Viewpoint Surgical Video: Geometric Autocalibration of Multiple Cameras in Surgical Lights Yuna Kato, Mariko Isogawa, Shohei Mori, Hideo Saito, Hiroki Kajita, Yoshifumi Takatsume
P01-056	HIGT: Hierarchical Interaction Graph-Transformer for Whole Slide Image Analysis Ziyu Guo, Weiqin Zhao, Shujun Wang, Lequan Yu
P01-057	Histopathology Image Classification using Deep Manifold Contrastive Learning Jing Wei Tan, Won-Ki Jeong
P01-058	IIB-MIL: Integrated instance-level and bag-level MIL multiple instances learning with label disambiguation for pathological image analysis Qin Ren, Yu Zhao, Bing He, Bingzhe Wu, Sijie Mai, Fan Xu, Yueshan Huang, Yonghong He, Junzhou Huang, Jianhua Yao
P01-059	Imitation Learning from Expert Video Data for Dissection Trajectory Prediction in Endoscopic Surgical Procedure Jianan Li, Yueming Jin, Yueyao Chen, Hon-Chi Yip, Markus Scheppach, Philip Wai-Yan Chiu, Yeung Yam, Helen Mei-Ling Meng, Qi Dou
P01-060	Improving Automatic Fetal Biometry Measurement with Swoosh Activation Function Shijia Zhou, Euijoon Ahn, Hao Wang, Ann Quinton, Narelle Kennedy, Pradeeba Sridar, Ralph Nanan, Jinman Kim

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P01-061	Instance-Aware Diffusion Model for Gland Segmentation in Colon Histology Images Mengxue Sun, Wenhui Huang, Yuanjie Zheng
P01-062	Intelligent Virtual B-scan Mirror (IVBM) Michael Sommersperger, Shervin Dehghani, Philipp Matten, Kristina Mach, Hessam Roodaki, Ulrich Eck, Nassir Navab
P01-063	Intraoperative CT augmentation for needle-based liver interventions Sidaty El hadramy, Juan Verde, Nicolas Padoy, Stéphane Cotin
P01-064	Intra-operative Forecasting of Standing Spine Shape with Articulated Neural Kernel Fields Sylvain Thibeault, Stefan Parent, Samuel Kadoury
P01-065	Iteratively Coupled Multiple Instance Learning from Instance to Bag Classifier for Whole Slide Image Classification Hongyi Wang, Luyang Luo, Fang Wang, Ruofeng Tong, Yen-Wei Chen, Hongjie Hu, Lanfen Lin, Hao Chen
P01-066	Joint Representation of Functional and Structural Profiles for Identifying Common and Consistent 3-Hinge Gyral Folding Landmark Shu Zhang, Ruoyang Wang, Yanqing Kang, Sigang Yu, Huawen Hu, Haiyang Zhang
P01-067	LABRAD-OR: Lightweight Memory Scene Graphs for Accurate Bimodal Reasoning in Dynamic Operating Rooms Ege Özsoy, Tobias Czempiel, Felix Holm, Chantal Pellegrini, Nassir Navab
P01-068	Learning Expected Appearances for Intraoperative Registration during Neurosurgery Nazim Haouchine, Reuben Dorent, Parikshit Juvekar, Erickson Torio, William M. Wells III, Tina Kapur, Alexandra J. Golby, Sarah Frisken
P01-069	Learning normal asymmetry representations for homologous brain structures Duilio Deangeli, Emmanuel Iarussi, Juan Pablo Princich, Mariana Bendersky, Ignacio Larrabide, José Ignacio Orlando
P01-070	Make-A-Volume: Leveraging Latent Diffusion Models for Cross-Modality 3D Brain MRI Synthesis Lingting Zhu, Zeyue Xue, Zhenchao Jin, Xian Liu, Jingzhen He, Ziwei Liu, Lequan Yu
P01-071	Mammo-Net: Integrating Gaze Supervision and Interactive Information in Multi-view Mammogram Classification Changkai Ji, Changde Du, Qing Zhang, Sheng Wang, Chong Ma, Jiaming Xie, Yan Zhou, Huiguang He, Dinggang Shen
P01-072	Maximum-entropy estimation of joint relaxation-diffusion distribution using multi-TE diffusion MRI Lipeng Ning
P01-073	Medical Phrase Grounding with Region-Phrase Context Contrastive Alignment Zhihao Chen, Yang Zhou, Anh Tran, Junting Zhao, Liang Wan, Gideon Su Kai Ooi, Lionel Tim-Ee Cheng, Choon Hua Thng, Xinxing Xu, Yong Liu, Huazhu Fu
P01-074	Microstructure Fingerprinting for Heterogeneously Oriented Tissue Microenvironments Khoi Minh Huynh, Ye Wu, Sahar Ahmad, Pew-Thian Yap
P01-075	Mining Negative Temporal Contexts For False Positive Suppression In Real-Time Ultrasound Lesion Detection Haojun Yu, Youcheng Li, QuanLin Wu, Ziwei Zhao, Dengbo Chen, Dong Wang, Liwei Wang
P01-076	MixUp-MIL: Novel Data Augmentation for Multiple Instance Learning and a Study on Thyroid Cancer Diagnosis Michael Gadermayr, Lukas Koller, Maximilian Tschuchnig, Lea Maria Stangassinger, Christina Kreutzer, Sebastien Couillard-Despres, Gertie Janneke Oostingh, Anton Hittmair

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P01-077	Multi-modal Pathological Pre-training via Masked Autoencoders for Breast Cancer Diagnosis Meng kang Lu, Tianyi Wang, Yong Xia
P01-078	Multi-Scale Prototypical Transformer for Whole Slide Image Classification Saisai Ding, Jun Wang, Juncheng Li, Jun Shi
P01-079	Multi-scope Analysis Driven Hierarchical Graph Transformer for Whole Slide Image based Cancer Survival Prediction Wentai Hou, Yan He, Bingjian Yao, Lequan Yu, Rongshan Yu, Feng Gao, Liansheng Wang
P01-080	Multi-task Joint Prediction of Infant Cortical Morphological and Cognitive Development Xinrui Yuan, Jiale Cheng, Fenqiang Zhao, Zhengwang Wu, Li Wang, Weili Lin, Yu Zhang, Gang Li
P01-081	Multi-view Guidance for Self-supervised Monocular Depth Estimation on Laparoscopic Images via Spatio-temporal Correspondence Wenda Li, Yuichiro Hayashi, Masahiro Oda, Takayuki Kitasaka, Kazunari Misawa, Kensaku Mori
P01-082	Neural LerPlane Representations for Fast 4D Reconstruction of Deformable Tissues Chen Yang, Kailing Wang, Yuehao Wang, Xiaokang Yang, Wei Shen
P01-083	Neural Pre-Processing: A Learning Framework for End-to-end Brain MRI Pre-processing Xinzi He, Alan Q. Wang, Mert R. Sabuncu
P01-084	Optical Coherence Elastography Needle for Biomechanical Characterization of Deep Tissue Robin Mieling, Sarah Latus, Martin Fischer, Finn Behrendt, Alexander Schlaefer
P01-085	Optical Ultrasound Imaging for Endovascular Repair of Abdominal Aortic Aneurysms: A Pilot Study Callum Little, Shaoyan Zhang, Richard Colchester, Sacha Noimark, Sunish Mathews, Edward Zhang, Paul Beard, Malcolm Finlay, Tara Mastracci, Roby Rakhit, Adrien Desjardins
P01-086	Pelphix: Surgical Phase Recognition from X-ray Images in Percutaneous Pelvic Fixation Benjamin D. Killeen, Han Zhang, Jan Mangulabnan, Mehran Armand, Russell H. Taylor, Greg Osgood, Mathias Unberath
P01-087	Pelvic Fracture Reduction Planning Based on Morphable Models and Structural Constraints Sutuke Yibulayimu, Yanzhen Liu, Yudi Sang, Gang Zhu, Yu Wang, Jixuan Liu, Chao Shi, Chunpeng Zhao, Xinbao Wu
P01-088	Physics-Informed Conditional Autoencoder Approach for Robust Metabolic CEST MRI at 7T Junaid R. Rajput, Tim A. Möhle, Moritz S. Fabian, Angelika Mennecke, Jochen A. Sembill, Joji B. Kuramatsu, Manuel Schmidt, Arnd Dörfler, Andreas Maier, Moritz Zaiss
P01-089	Polar Eyeball Shape Net for 3D Posterior Ocular Shape Representation Jiaqi Zhang, Yan Hu, Xiaojuan Qi, Ting Meng, Lihui Wang, Huazhu Fu, Mingming Yang, Jiang Liu
P01-090	Position-aware masked autoencoder for histopathology WSI representation learning Kun Wu, Yushan Zheng, Jun Shi, Fengying Xie, Zhiguo Jiang
P01-091	POV-Surgery: A Dataset for Egocentric Hand and Tool Pose Estimation During Surgical Activities Rui Wang, Sophokles Ktistakis, Siwei Zhang, Mirko Meboldt, Quentin Lohmeyer
P01-092	Prior-driven Dynamic Brain Networks for Multi-Modal Emotion Recognition Chuhang Zheng, Wei Shao, Daoqiang Zhang, Qi Zhu

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P01-093	Realistic endoscopic illumination modeling for NeRF-based data generation Dimitrios Psychogyios, Francisco Vasconcelos, Danail Stoyanov
P01-094	Regressing Simulation to Real: Unsupervised Domain Adaptation for Automated Quality Assessment in Transoesophageal Echocardiography Jialang Xu, Yueming Jin, Bruce Martin, Andrew Smith, Susan Wright, Danail Stoyanov, Evangelos B. Mazomenos
P01-095	Regularized Kelvinlet Functions to Model Linear Elasticity for Image-to-Physical Registration of the Breast Morgan Ringel, Jon Heiselman, Winona Richey, Ingrid Meszoely, Michael Miga
P01-096	Relaxation-Diffusion Spectrum Imaging for Probing Tissue Microarchitecture Ye Wu, Xiaoming Liu, Xinyuan Zhang, Khoi Minh Huynh, Sahar Ahmad, Pew-Thian Yap
P01-097	Retinal Age Estimation with Temporal Fundus Images Enhanced Progressive Label Distribution Learning Zhen Yu, Ruiye Chen, Peng Gui, Lie Ju, Xianwen Shang, Zhuoting Zhu, Mingguang He, Zongyuan Ge
P01-098	Revisiting Distillation for Continual Learning on Visual Question Localized-Answering in Robotic Surgery Long Bai, Mobarakol Islam, Hongliang Ren
P01-099	Robust Cervical Abnormal Cell Detection via Distillation from Local-scale Consistency Refinement Manman Fei, Xin Zhang, Maosong Cao, Zhenrong Shen, Xiangyu Zhao, Zhiyun Song, Qian Wang, Lichi Zhang
P01-100	SEDSkill: Surgical Events Driven Method for Skill Assessment from Thoracoscopic Surgical Videos Xinpeng Ding, Xiaowei Xu, Xiaomeng Li
P01-101	Segment Membranes and Nuclei from Histopathological Images via Nuclei Point-level Supervision Hansheng Li, Zhengyang Xu, Mo Zhou, Xiaoshuang Shi, Yuxin Kang, Qirong Bu, Hong Lv, Ming Li, Mingzhen Lin, Lei Cui, Jun Feng, Wentao Yang, Lin Yang
P01-102	Segmentation of Kidney Tumors on Non-Contrast CT Images using Protuberance Detection Network Taro Hatsutani, Akimichi Ichinose, Keigo Nakamura, Yoshiro Kitamura
P01-103	SegmentOR: Obtaining Efficient Operating Room Semantics Through Temporal Propagation Lennart Bastian, Daniel Derkacz-Bogner, Tony D. Wang, Benjamin Busam, Nassir Navab
P01-104	Self-distillation for surgical action recognition Amine Yamlahi, Thuy Nuong Tran, Patrick Godau, Melanie Schellenberg, Dominik Michael, Finn-Henri Smidt, Jan-Hinrich Nölke, Tim J. Adler, Minu Dietlinde Tizabi, Chinedu Innocent Nwoye, Nicolas Padoy, Lena Maier-Hein
P01-105	Self-pruning Graph Neural Network for Predicting Inflammatory Disease Activity in Multiple Sclerosis from Brain MR Images Chinmay Prabhakar, Hongwei Bran Li, Johannes C. Paetzold, Timo Loehr, Chen Niu, Mark Mühlau, Daniel Rueckert, Benedikt Wiestler, Bjoern Menze
P01-106	Self-Supervised Learning for Endoscopic Video Analysis Roy Hirsch, Mathilde Caron, Regev Cohen, Amir Livne, Ron Shapiro, Tomer Golany, Roman Goldenberg, Daniel Freedman, Ehud Rivlin
P01-107	Self-supervised Sim-to-Real Kinematics Reconstruction for Video-based Assessment of Intraoperative Suturing Skills Loc Trinh, Tim Chu, Zijun Cui, Anand Malpani, Cherine Yang, Istabraq Dalieh, Alvin Hui, Oscar Gomez, Yan Liu, Andrew Hung



**Poster 1: Clinical Applications and Guidance, Computational Pathology****Monday, October 9, 2023, 13:00 to 14:30****Poster Hall**

P01-108	Semantic difference guidance for the uncertain boundary segmentation of CT left atrial appendage Xin You, Ming Ding, Minghui Zhang, Yangqian Wu, Yi Yu, Yun Gu, Jie Yang
P01-109	Semantic segmentation of surgical hyperspectral images under geometric domain shifts Jan Sellner, Silvia Seidlitz, Alexander Studier-Fischer, Alessandro Motta, Berkin Özdemir, Beat Peter Müller-Stich, Felix Nickel, Lena Maier-Hein
P01-110	Semantic Virtual Shadows (SVS) for Improved Perception in 4D OCT Guided Surgery Michael Sommersperger, Shervin Dehghani, Philipp Matten, Kristina Mach, M. Ali Nasser, Hossain Roodaki, Ulrich Eck, Nassir Navab
P01-111	SEND: Sparse Efficient Neural Depth and Deformation for Tissue Tracking Adam Schmidt, Omid Mohareri, Simon DiMaio, Septimiu E. Salcudean
P01-112	Shape-based pose estimation for automatic standard views of the knee Lisa Kausch, Sarina Thomas, Holger Kunze, Jan Siad El Barbari, Klaus H. Maier-Hein
P01-113	Simulation of Arbitrary Level Contrast Dose in MRI Using an Iterative Global Transformer Model Dayang Wang, Srivathsa Pasumarthi, Greg Zaharchuk, Ryan Chamberlain
P01-114	Skin Lesion Correspondence Localization in Total Body Photography Wei-Lun Huang, Davood Tashayyod, Jun Kang, Amir Gandjbakhche, Michael Kazhdan, Mehran Armand
P01-115	Soft-tissue Driven Craniomaxillofacial Surgical Planning Xi Fang, Daeseung Kim, Xuanang Xu, Tianshu Kuang, Nathan Lampen, Jungwook Lee, Hannah H. Deng, Jaime Gateno, Michael A. K. Liebschner, James J. Xia, Pingkun Yan
P01-116	Spatiotemporal Incremental Mechanics Modeling of Facial Tissue Change Nathan Lampen, Daeseung Kim, Xuanang Xu, Xi Fang, Jungwook Lee, Tianshu Kuang, Hannah H. Deng, Michael A. K. Liebschner, James J. Xia, Jaime Gateno, Pingkun Yan
P01-117	Speech Audio Synthesis from Tagged MRI and Non-Negative Matrix Factorization via Plastic Transformer Xiaofeng Liu, Fangxu Xing, Maureen Stone, Jiachen Zhuo, Sidney Fels, Jerry L. Prince, Georges El Fakhri, Jonghye Woo
P01-118	Spinal nerve segmentation method and dataset construction in endoscopic surgical scenarios Shaowu Peng, Pengcheng Zhao, Yongyu Ye, Junying Chen, Yunbing Chang, Xiaoqing Zheng
P01-119	StainDiff: Transfer Stain Styles of Histology Images with Denoising Diffusion Probabilistic Models and Self-Ensemble Yiqing Shen, Jing Ke
P01-120	Style-based Manifold for Weakly-supervised Disease Characteristic Discovery Siyu Liu, Linfeng Liu, Craig Engstrom, Xuan Vinh To, Zongyuan Ge, Stuart Crozier, Fatima Nasrallah, Shekhar S. Chandra
P01-121	Surgical Action Triplet Detection by Mixed Supervised Learning of Instrument-Tissue Interactions Saurav Sharma, Chinedu Innocent Nwoye, Didier Mutter, Nicolas Padoy
P01-122	Surgical Activity Triplet Recognition via Triplet Disentanglement Yiliang Chen, Shengfeng He, Yueming Jin, Jing Qin
P01-123	Surgical Video Captioning with Mutual-Modal Concept Alignment Zhen Chen, Qingyu Guo, Leo K. T. Yeung, Danny T. M. Chan, Zhen Lei, Hongbin Liu, Jinqiao Wang

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### Poster Hall

P01-124	SurgicalGPT: End-to-End Language-Vision GPT for Visual Question Answering in Surgery Lalithkumar Seenivasan, Mobarakol Islam, Gokul Kannan, Hongliang Ren
P01-125	Synthesis of Contrast-Enhanced Breast MRI Using T1- and Multi-b-Value DWI-based Hierarchical Fusion Network with Attention Mechanism Tianyu Zhang, Luyi Han, Anna D'Angelo, Xin Wang, Yuan Gao, Chunyao Lu, Jonas Teuwen, Regina Beets-Tan, Tao Tan, Ritse Mann
P01-126	Synthesising Rare Cataract Surgery Samples with Guided Diffusion Models Yannik Frisch, Moritz Fuchs, Antoine Sanner, Felix Anton Ucar, Marius Frenzel, Joana Wasielica-Poslednik, Adrian Gericke, Felix Mathias Wagner, Thomas Dratsch, Anirban Mukhopadhyay
P01-127	TCL: Triplet Consistent Learning for Odometry Estimation of Monocular Endoscope Hao Yue, Yun Gu
P01-128	Tensor-based Multimodal Learning for Prediction of Pulmonary Arterial Wedge Pressure from Cardiac MRI Prasun C. Tripathi, Mohammad N. I. Suvon, Lawrence Schobs, Shuo Zhou, Samer Alabed, Andrew J. Swift, Haiping Lu
P01-129	Thinking Like Sonographers: A Deep CNN Model for Diagnosing Gout from Musculoskeletal Ultrasound Zhi Cao, Weijing Zhang, Keke Chen, Di Zhao, Daoqiang Zhang, Hongen Liao, Fang Chen
P01-130	Topology-Preserving Automatic Labeling of Coronary Arteries via Anatomy-aware Connection Classifier Zhixing Zhang, Ziwei Zhao, Dong Wang, Shishuang Zhao, Yuhang Liu, Jia Liu, Liwei Wang
P01-131	Towards multi-modal anatomical landmark detection for ultrasound-guided brain tumor resection with contrastive learning Soorena Salari, Amirhossein Rasoulia, Hassan Rivaz, Yiming Xiao
P01-132	TractCloud: Registration-free Tractography Parcellation with a Novel Local-global Streamline Point Cloud Representation Tengfei Xue, Yuqian Chen, Chaoyi Zhang, Alexandra J. Golby, Nikos Makris, Yogesh Rathi, Weidong Cai, Fan Zhang, Lauren J. O'Donnell
P01-133	Transfer Learning-Assisted Survival Analysis of Breast Cancer Relying on the Spatial Interaction Between Tumor-Infiltrating Lymphocytes and Tumors Yawen Wu, Yingli Zuo, Qi Zhu, Jianpeng Sheng, Daoqiang Zhang, Wei Shao
P01-134	Ultrasonic tracking of a rapid-exchange microcatheter with simultaneous pressure sensing for cardiovascular interventions Sunish Mathews, Richard Caulfield, Callum Little, Malcolm Finlay, Adrien Desjardins
P01-135	Uncertainty Inspired Autism Spectrum Disorder Screening Ying Zhang, Yaping Huang, Jiansong Qi, Sihui Zhang, Mei Tian, Yi Tian
P01-136	Unified surface and volumetric inference on functional imaging data Thomas F. Kirk, Martin S. Craig, Michael A. Chappell
P01-137	UWAT-GAN: Fundus Fluorescein Angiography Synthesis via Ultra-wide-angle Transformation Multi-scale GAN Zhaojie Fang, Zhanghao Chen, Pengxue Wei, Wangting Li, Shaochong Zhang, Ahmed Elazab, Gangyong Jia, Ruiquan Ge, Changmiao Wang
P01-138	UXDiff: Synthesis of X-ray Image from Ultrasound Coronal Image of Spine with Diffusion Probabilistic Network Yihao Zhou, Chonglin Wu, Xinyi Wang, Yongping Zheng
P01-139	Vertex Correspondence in Cortical Surface Reconstruction Anne-Marie Rickmann, Fabian Bongratz, Christian Wachinger

**Poster 1: Clinical Applications and Guidance, Computational Pathology**

**Monday, October 9, 2023, 13:00 to 14:30**

**Poster Hall**

P01-140	Virtual Heart models help elucidate the role of border zone in sustained monomorphic Ventricular Tachycardia Eduardo Castañeda, Masahito Suzuki, Hiroshi Ashikaga, Èric Lluch, Felix Meister, Viorel Mihalef, Chloé Audigier, Andreas Maier, Henry Halperin, Tiziano Passerini
P01-141	WarpEM: Dynamic Time Warping for Accurate Catheter Registration in EM-guided Procedures Ardit Ramadani, Peter Ewert, Heribert Schunkert, Nassir Navab
P01-142	Wasserstein Distance-Preserving Vector Space of Persistent Homology Tananun Songdechakraiwt, Bryan M. Krause, Matthew I. Banks, Kirill V. Nourski, Barry D. Van Veen
P01-143	Whole-Heart Reconstruction with Explicit Topology Integrated Learning Huilin Yang, Roger Tam, Xiaoying Tang

14:30 to 16:00

Oral 3: Machine Learning I – Semi-Supervised & Self-Supervised

Oral 4: Computer Assisted Interventions and Surgery

<b>Oral 3: Machine Learning I – Semi-Supervised &amp; Self-Supervised Monday, October 9, 14:30 to 16:00 Exhibit Hall A – Main Hall</b>		<b>Oral 4: Computer Assisted Interventions and Surgery Monday, October 9, 14:30 to 16:00 Ballroom A – Parallel Hall</b>
14:30	Multi-modal Variational Autoencoders for normative modelling across multiple imaging modalities Speaker: Ana Lawry Aguila, University College London, United Kingdom	Detecting the Sensing Area of A Laparoscopic Probe in Minimally Invasive Cancer Surgery Speaker: Baoru Huang, Imperial College London, United Kingdom
14:45	Correlation-Aware Mutual Learning for Semi-supervised Medical Image Segmentation Speaker: Shengbo Gao, Deepwise AI Lab, China	FLlm-based In Vivo Classification of Residual Cancer in the Surgical Cavity during Transoral Robotic Surgery Speaker: Mohamed Hassan, University of California Davis, USA
15:00	Prompt-MIL: Boosting Multi-Instance Learning Schemes via Task-specific Prompt Tuning Speaker: Jingwei Zhang, Stony Brook Universtiy, USA	FocalErrorNet: Uncertainty-aware focal modulation network for inter-modal registration error estimation in ultrasound-guided neurosurgery Speaker: Soorena Salari, Concordia University, Canada
15:15	LOTUS: Learning to Optimize Task-based US representations Speaker: Yordanka Velikova, Technical University of Munich, Germany	From Tissue to Sound: Model-based Sonification of Medical Imaging Speaker: Sasan Matinfar, Technical University of Munich, Germany
15:30	Category-level Regularized Unlabeled-to-labeled Learning for Semi-supervised Prostate Segmentation with Multi-site Unlabeled Data Speaker: Zhe Xu, The Chinese University of Hong Kong, Hong Kong SAR, China	ConTrack: Contextual Transformer for Device Tracking in X-ray Speaker: Yue Zhang, Siemens Healthineers, USA
15:45	Towards AI-driven radiology education: A self-supervised segmentation-based framework for high-precision medical image editing Speaker: Kazuma Kobayashi, National Cancer Center Research Institute, Japan	A Transfer Learning Approach to Localise a Deep Brain Stimulation Target Speaker: Ying-Qiu Zheng, University of Oxford, United Kingdom

<b>Poster 2: Machine Learning – Learning Strategies</b>	
<b>Monday, Oct 9, 2023, 16:00 to 17:30</b>	
<b>Poster Hall</b>	
P02-001	3D Arterial Segmentation via Single 2D Projections and Depth Supervision in Contrast-Enhanced CT Images Alina F. Dima, Veronika A. Zimmer, Martin J. Menten, Hongwei Bran Li, Markus Graf, Tristan Lemke, Philipp Raffler, Robert Graf, Jan S. Kirschke, Rickmer Braren, Daniel Rueckert
P02-002	3D Dental Mesh Segmentation Using Semantics-Based Feature Learning with Graph-Transformer Fan Duan, Li Chen
P02-003	A Small-Sample Method with EEG Signals Based on Abductive Learning for Motor Imagery Decoding Tianyang Zhong, Xiaozheng Wei, Enze Shi, Jiaying Gao, Chong Ma, Yaonai Wei, Songyao Zhang, Lei Guo, Junwei Han, Tianming Liu, Tuo Zhang
P02-004	Accurate and Robust Patient Height and Weight Estimation in Clinical Imaging using a Depth Camera Birgi Tamersoy, Felix Alexandru Pîrvan, Santosh Pai, Ankur Kapoor
P02-005	Adapter Learning in Pretrained Feature Extractor for Continual Learning of Diseases Wentao Zhang, Yujun Huang, Tong Zhang, Qingsong Zou, Wei-Shi Zheng, Ruixuan Wang
P02-006	Adaptive Region Selection for Active Learning in Whole Slide Image Semantic Segmentation Jingna Qiu, Frauke Wilm, Mathias Öttl, Maja Schlereth, Chang Liu, Tobias Heimann, Marc Aubreville, Katharina Breininger
P02-007	Additional Positive Enables Better Representation Learning for Medical Images Dewen Zeng, Yawen Wu, Xinrong Hu, Xiaowei Xu, Jingtong Hu, Yiyu Shi
P02-008	AMAE: Adaptation of Pre-Trained Masked Autoencoder for Dual-Distribution Anomaly Detection in Chest X-Rays Behzad Bozorgtabar, Dwarikanath Mahapatra, Jean-Philippe Thiran
P02-009	AME-CAM: Attentive Multiple-Exit CAM for Weakly Supervised Segmentation on MRI Brain Tumor Yu-Jen Chen, Xinrong Hu, Yiyu Shi, Tsung-Yi Ho
P02-010	An Auto-Encoder to Reconstruct Structure with Cryo-EM Images via Theoretically Guaranteed Isometric Latent Space, and its Application for Automatically Computing the Conformational Pathway Kimihiro Yamazaki, Yuichiro Wada, Atsushi Tokuhisa, Mutsuyo Wada, Takashi Katoh, Yuhei Umeda, Yasushi Okuno, Akira Nakagawa
P02-011	Anatomy-Driven Pathology Detection on Chest X-rays Philip Müller, Felix Meissen, Johannes Brandt, Georgios Kaissis, Daniel Rueckert
P02-012	Automated CT Lung Cancer Screening Workflow using 3D Camera Brian Teixeira, Vivek Singh, Birgi Tamersoy, Andreas Prokein, Ankur Kapoor
P02-013	Automatic Retrieval of Corresponding US Views in Longitudinal Examinations Hamideh Kerdegari, Nhat Tran Huy Phung, Van Hao Nguyen, Thi Phuong Thao Truong, Ngoc Minh Thu Le, Thanh Phuong Le, Thi Mai Thao Le, Luigi Pisani, Linda Denehy, Vital Consortium, Reza Razavi, Louise Thwaites, Sophie Yacoub, Andrew P. King, Alberto Gomez
P02-014	Black-box Domain Adaptive Cell Segmentation via Multi-source Distillation Xingguang Wang, Zhongyu Li, Xiangde Luo, Jing Wan, Jianwei Zhu, Ziqi Yang, Meng Yang, Cunbao Xu

**Poster 2: Machine Learning – Learning Strategies****Monday, Oct 9, 2023, 16:00 to 17:30****Poster Hall**

P02-015	Brain Anatomy-Guided MRI Analysis for Assessing Clinical Progression of Cognitive Impairment with Structural MRI Lintao Zhang, Jinjian Wu, Lihong Wang, Li Wang, David C. Steffens, Shijun Qiu, Guy G. Potter, Mingxia Liu
P02-016	BrainUSL: Unsupervised Graph Structure Learning for Functional Brain Network Analysis Pengshuai Zhang, Guangqi Wen, Peng Cao, Jinzhu Yang, Jinyu Zhang, Xizhe Zhang, Xinrong Zhu, Osmar R. Zaiane, Fei Wang
P02-017	Can point cloud networks learn statistical shape models of anatomies? Jadie Adams, Shireen Y. Elhabian
P02-018	CL-ADDA: Contrastive Learning with Amplitude-Driven Data Augmentation for fMRI-Based Individualized Predictions Jiangcong Liu, Le Xu, Yun Guan, Hao Ma, Lixia Tian
P02-019	CLIP-Lung: Textual Knowledge-Guided Lung Nodule Malignancy Prediction Yiming Lei, Zilong Li, Yan Shen, Junping Zhang, Hongming Shan
P02-020	Clustering disease trajectories in contrastive feature space for biomarker proposal in age-related macular degeneration Robbie Holland, Oliver Leingang, Christopher Holmes, Philipp Anders, Rebecca Kaye, Sophie Riedl, Johannes C. Paetzold, Ivan Ezhov, Hrvoje Bogunović, Ursula Schmidt-Erfurth, Hendrik P. N. Scholl, Sobha Sivaprasad, Andrew J. Lotery, Daniel Rueckert, Martin J. Menten
P02-021	COsSAL: A Benchmark for Cold-start Active Learning for 3D Medical Image Segmentation Han Liu, Hao Li, Xing Yao, Yubo Fan, Dewei Hu, Benoit M. Dawant, Vishwesh Nath, Zhoubing Xu, Ipek Oguz
P02-022	Combating Medical Label Noise via Robust Semi-supervised Contrastive Learning Bingzhi Chen, Zhanhao Ye, Yishu Liu, Zheng Zhang, Jiahui Pan, Biqing Zeng, Guangming Lu
P02-023	Community-Aware Transformer for Autism Prediction in fMRI Connectome Anushree Bannadabhavi, Soojin Lee, Wenlong Deng, Rex Ying, Xiaoxiao Li
P02-024	Context-Aware Pseudo-Label Refinement for Source-Free Domain Adaptive Fundus Image Segmentation Zheang Huai, Xinpeng Ding, Yi Li, Xiaomeng Li
P02-025	Continual Learning for Abdominal Multi-Organ and Tumor Segmentation Yixiao Zhang, Xinyi Li, Huimiao Chen, Alan L. Yuille, Yaoyao Liu, Zongwei Zhou
P02-026	Correlation-Aware Mutual Learning for Semi-supervised Medical Image Segmentation Shengbo Gao, Ziji Zhang, Jiechao Ma, Zihao Li, Shu Zhang
P02-027	Cross-adversarial local distribution regularization for semi-supervised medical image segmentation Thanh Nguyen-Duc, Trung Le, Roland Bammer, He Zhao, Jianfei Cai, Dinh Phung
P02-028	Cross-Dataset Adaptation for Instrument Classification in Cataract Surgery Videos Jay N. Paranjape, Shameema Sikder, Vishal M. Patel, S. Swaroop Vedula
P02-029	DAS-MIL: Distilling Across Scales for MIL Classification of Histological WSIs Gianpaolo Bontempo, Angelo Porrello, Federico Bolelli, Simone Calderara, Elisa Ficarra
P02-030	Deblurring Masked Autoencoder is Better Recipe for Ultrasound Image Recognition Qingbo Kang, Jun Gao, Kang Li, Qicheng Lao

## Poster 2: Machine Learning – Learning Strategies

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### Poster Hall

P02-031	Decoupled Consistency for Semi-supervised Medical Image Segmentation Faquan Chen, Jingjing Fei, Yaqi Chen, Chenxi Huang
P02-032	Deep Reinforcement Learning Based System for Intraoperative Hyperspectral Video Autofocusing Charlie Budd, Jianrong Qiu, Oscar MacCormac, Martin Huber, Christopher Mower, Mirek Janatka, Théo Trotouin, Jonathan Shapey, Mads S. Bergholt, Tom Vercauteren
P02-033	Deep unsupervised clustering for conditional identification of subgroups within a digital pathology image set Mariia Sidulova, Xudong Sun, Alexej Gossmann
P02-034	Development and Fast Transferring of General Connectivity-based Diagnosis Model to New Brain Disorders with Adaptive Graph Meta-learner Yuxiao Liu, Mianxin Liu, Yuanwang Zhang, Dinggang Shen
P02-035	Disentangling Site Effects with Cycle-Consistent Adversarial Autoencoder for Multi-site Cortical Data Harmonization Fenqiang Zhao, Zhengwang Wu, Dajiang Zhu, Tianming Liu, John Gilmore, Weili Lin, Li Wang, Gang Li
P02-036	Domain Adaptation for Medical Image Segmentation using Transformation-Invariant Self-Training Negin Ghamsarian, Javier Gamazo Tejero, Pablo Márquez-Neila, Sebastian Wolf, Martin Zinkernagel, Klaus Schoeffmann, Raphael Sznitman
P02-037	Dual Conditioned Diffusion Models for Out-Of-Distribution Detection: Application to Fetal Ultrasound Videos Divyanshu Mishra, He Zhao, Pramit Saha, Aris T. Papageorghiou, J. Alison Noble
P02-038	EdgeAL: An Edge Estimation Based Active Learning Approach for OCT Segmentation Md Abdul Kadir, Hasan Md Tusfiqur Alam, Daniel Sonntag
P02-039	Exploring Brain Function-Structure Connectome Skeleton via Self-Supervised Graph-Transformer Approach Yanqing Kang, Ruoyang Wang, Enze Shi, Jinru Wu, Sigang Yu, Shu Zhang
P02-040	Exploring Unsupervised Cell Recognition with Prior Self-activation Maps Pingyi Chen, Chenglu Zhu, Zhongyi Shui, Jiatong Cai, Sunyi Zheng, Shichuan Zhang, Lin Yang
P02-041	Federated Condition Generalization on Low-dose CT Reconstruction via Cross-domain Learning Shixuan Chen, Boxuan Cao, Yinda Du, Yaoduo Zhang, Ji He, Zhaoying Bian, Dong Zeng, Jianhua Ma
P02-042	Foundation Ark: Accruing and Reusing Knowledge for Superior and Robust Performance DongAo Ma, Jiaxuan Pang, Michael B. Gotway, Jianming Liang
P02-043	Foundation Model for Endoscopy Video Analysis via Large-scale Self-supervised Pre-train Zhao Wang, Chang Liu, Shaoting Zhang, Qi Dou
P02-044	Full Image-index Remainder based Single Low-dose DR/CT Self-supervised Denoising Yifei Long, Jiayi Pan, Yan Xi, Jianjia Zhang, Weiwen Wu
P02-045	Gall Bladder Cancer Detection from US Images with Only Image Level Labels Soumen Basu, Ashish Papanai, Mayank Gupta, Pankaj Gupta, Chetan Arora
P02-046	Geometry-invariant abnormality detection Ashay Patel, Petru-Daniel Tudosiu, Walter Hugo Lopez Pinaya, Olusola Adeleke, Gary Cook, Vicky Goh, Sébastien Ourselin, M. Jorge Cardoso

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### Poster Hall

P02-047	GL-Fusion: Global-Local Fusion Network for Multi-view Echocardiogram Video Segmentation Ziyang Zheng, Jiewen Yang, Xinpeng Ding, Xiaowei Xu, Xiaomeng Li
P02-048	Graph Convolutional Network with Morphometric Similarity Networks for Schizophrenia Classification Hye Won Park, Seo Yeong Kim, Won Hee Lee
P02-049	Identification of Disease-sensitive Brain Imaging Phenotypes and Genetic Factors using GWAS Summary Statistics Duo Xi, Dingnan Cui, Jin Zhang, Muheng Shang, Minjianan Zhang, Lei Guo, Junwei Han, Lei Du, Alzheimer’s Disease Neuroimaging Initiative
P02-050	Incremental Learning for Heterogeneous Structure Segmentation in Brain Tumor MRI Xiaofeng Liu, Helen A. Shih, Fangxu Xing, Emiliano Santarnecchi, Georges El Fakhri, Jonghye Woo
P02-051	Inter-slice Consistency for Unpaired Low-Dose CT Denoising using Boosted Contrastive Learning Jie Jing, Tao Wang, Hui Yu, Zexin Lu, Yi Zhang
P02-052	Knowledge Boosting: Rethinking Medical Contrastive Vision-Language Pre-Training Xiaofei Chen, Yuting He, Cheng Xue, Rongjun Ge, Shuo Li, Guanyu Yang
P02-053	L3DMC: Lifelong Learning using Distillation via Mixed-Curvature Space Kaushik Roy, Peyman Moghadam, Mehrtash Harandi
P02-054	LOTUS: Learning to Optimize Task-based US representations Yordanka Velikova, Mohammad Farid Azampour, Walter Simson, Vanessa Gonzalez Duque, Nassir Navab
P02-055	LSOR: Longitudinally-Consistent Self-Organized Representation Learning Jiahong Ouyang, Qingyu Zhao, Ehsan Adeli, Wei Peng, Greg Zaharchuk, Kilian M. Pohl
P02-056	Many tasks make light work: Learning to localise medical anomalies from multiple synthetic tasks Matthew Baugh, Jeremy Tan, Johanna P. Müller, Mischa Dombrowski, James Batten, Bernhard Kainz
P02-057	Masked Frequency Consistency for Domain-Adaptive Semantic Segmentation of Laparoscopic Images Xinkai Zhao, Yuichiro Hayashi, Masahiro Oda, Takayuki Kitasaka, Kensaku Mori
P02-058	Masked Vision and Language Pre-training with Unimodal and Multimodal Contrastive Losses for Medical Visual Question Answering Pengfei Li, Gang Liu, Jinlong He, Zixu Zhao, Shenjun Zhong
P02-059	MDA-SR: Multi-level Domain Adaptation Super-Resolution for Wireless Capsule Endoscopy Images Tianbao Liu, Zefeiyun Chen, Qingyuan Li, Yusi Wang, Ke Zhou, Weijie Xie, Yuxin Fang, Kaiyi Zheng, Zhanpeng Zhao, Side Liu, Wei Yang
P02-060	MedGen3D: A Deep Generative Framework for Paired 3D Image and Mask Generation Kun Han, Yifeng Xiong, Chenyu You, Pooya Khosravi, Shanlin Sun, Xiangyi Yan, James S. Duncan, Xiaohui Xie
P02-061	MedIM: Boost Medical Image Representation via Radiology Report-guided Masking Yutong Xie, Lin Gu, Tatsuya Harada, Jianpeng Zhang, Yong Xia, Qi Wu
P02-062	Mesh2SSM: From Surface Meshes to Statistical Shape Models of Anatomy Krithika Iyer, Shireen Y. Elhabian
P02-063	MetalR: Meta-tuning of Learning Rates for Transfer Learning in Medical Imaging Yixiong Chen, Li Liu, Jingxian Li, Hua Jiang, Chris Ding, Zongwei Zhou



## Poster 2: Machine Learning – Learning Strategies

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P02-064	M-FLAG: Medical Vision-Language Pre-training with Frozen Language Models and Latent Space Geometry Optimization Che Liu, Sibó Cheng, Chen Chen, Mengyun Qiao, Weitong Zhang, Anand Shah, Wenjia Bai, Rossella Arcucci
P02-065	Mitosis Detection from Partial Annotation by Dataset Generation via Frame-Order Flipping Kazuya Nishimura, Ami Katanaya, Shinichiro Chuma, Ryoma Bise
P02-066	Modeling Alzheimer's Disease Progression from Multi-task and Self-supervised Learning Perspective with Brain Networks Wei Liang, Kai Zhang, Peng Cao, Pengfei Zhao, Xiaoli Liu, Jinzhu Yang, Osmar R. Zaiane
P02-067	Modularity-Constrained Dynamic Representation Learning for Interpretable Brain Disorder Analysis with Functional MRI Qianqian Wang, Mengqi Wu, Yuqi Fang, Wei Wang, Lishan Qiao, Mingxia Liu
P02-068	Multi-Modal Semi-supervised Evidential Recycle Framework for Alzheimer's Disease Classification Yingjie Feng, Wei Chen, Xianfeng Gu, Xiaoyin Xu, Min Zhang
P02-069	Multi-modal Variational Autoencoders for normative modelling across multiple imaging modalities Ana Lawry Aguila, James Chapman, Andre Altmann
P02-070	Multiple Prompt Fusion for Zero-Shot Lesion Detection Using Vision-Language Models Miaotian Guo, Huahui Yi, Ziyuan Qin, Haiying Wang, Aidong Men, Qicheng Lao
P02-071	Multi-scale Cross-restoration Framework for Electrocardiogram Anomaly Detection Aofan Jiang, Chaoqin Huang, Qing Cao, Shuang Wu, Zi Zeng, Kang Chen, Ya Zhang, Yanfeng Wang
P02-072	Multi-Scale Self-Supervised Learning for Longitudinal Lesion Tracking with Optional Supervision Anamaria Vizitiu, Antonia T. Mohaiu, Ioan M. Popdan, Abishek Balachandran, Florin C. Ghesu, Dorin Comaniciu
P02-073	Multi-Target Domain Adaptation with Prompt Learning for Medical Image Segmentation Yili Lin, Dong Nie, Yuting Liu, Ming Yang, Daoqiang Zhang, Xuyun Wen
P02-074	OpenAL: An Efficient Deep Active Learning Framework for Open-Set Pathology Image Classification Linhao Qu, Yingfan Ma, Zhiwei Yang, Manning Wang, Zhijian Song
P02-075	Open-Ended Medical Visual Question Answering Through Prefix Tuning of Language Models Tom van Sonsbeek, Mohammad Mahdi Derakhshani, Ivona Najdenkoska, Cees G. M. Snoek, Marcel Worring
P02-076	PET Image Denoising with Score-Based Diffusion Probabilistic Models Chenyu Shen, Ziyuan Yang, Yi Zhang
P02-077	PET-diffusion: Unsupervised PET Enhancement based on the Latent Diffusion Model Caiwen Jiang, Yongsheng Pan, Mianxin Liu, Lei Ma, Xiao Zhang, Jiameng Liu, Xiaosong Xiong, Dinggang Shen
P02-078	Pick the Best Pre-trained Model: Towards Transferability Estimation for Medical Image Segmentation Yuncheng Yang, Meng Wei, Junjun He, Jie Yang, Jin Ye, Yun Gu
P02-079	PLD-AL: Pseudo-Label Divergence-Based Active Learning in Carotid Intima-Media Segmentation for Ultrasound Images Yucheng Tang, Yipeng Hu, Jing Li, Hu Lin, Xiang Xu, Ke Huang, Hongxiang Lin
P02-080	PMC-CLIP: Contrastive Language-Image Pre-training using Biomedical Documents Weixiong Lin, Ziheng Zhao, Xiaoman Zhang, Chaoyi Wu, Ya Zhang, Yanfeng Wang, Weidi Xie

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P02-081	Prompt-MIL: Boosting Multi-Instance Learning Schemes via Task-specific Prompt Tuning Jingwei Zhang, Saarthak Kapse, Ke Ma, Prateek Prasanna, Joel Saltz, Maria Vakalopoulou, Dimitris Samaras
P02-082	PRONet: Point Refinement using Shape-guided Offset Map for Nuclei Instance Segmentation Siwoo Nam, Jaehoon Jeong, Miguel Luna, Philip Chikontwe, Sang Hyun Park
P02-083	S2ME: Spatial-Spectral Mutual Teaching and Ensemble Learning for Scribble-supervised Polyp Segmentation An Wang, Mengya Xu, Yang Zhang, Mobarakol Islam, Hongliang Ren
P02-084	Scribble-based 3D Multiple Abdominal Organ Segmentation via Triple-branch Multi-dilated Network with Pixel- and Class-wise Consistency Meng Han, Xiangde Luo, Wenjun Liao, Shichuan Zhang, Shaoting Zhang, Guotai Wang
P02-085	Second-course Esophageal Gross Tumor Volume Segmentation in CT with Prior Anatomical and Radiotherapy Information Yihua Sun, Hee Guan Khor, Sijuan Huang, Qi Chen, Shaobin Wang, Xin Yang, Hongen Liao
P02-086	Self-supervised dense representation learning for live-cell microscopy with time arrow prediction Benjamin Gallusser, Max Stieber, Martin Weigert
P02-087	Self-Supervised Domain Adaptive Segmentation of Breast Cancer via Test-Time Fine-Tuning Kyungsu Lee, Haeyun Lee, Georges El Fakhri, Jonghye Woo, Jae Youn Hwang
P02-088	Semi-supervised Pathological Image Segmentation via Cross Distillation of Multiple Attentions Lanfeng Zhong, Xin Liao, Shaoting Zhang, Guotai Wang
P02-089	SLPD: Slide-level Prototypical Distillation for WSIs Zhimiao Yu, Tiancheng Lin, Yi Xu
P02-090	SLPT: Selective Labeling Meets Prompt Tuning on Label-Limited Lesion Segmentation Fan Bai, Ke Yan, Xiaoyu Bai, Xinyu Mao, Xiaoli Yin, Jingren Zhou, Yu Shi, Le Lu, Max Q.-H. Meng
P02-091	Smooth Attention for Deep Multiple Instance Learning: Application to CT Intracranial Hemorrhage Detection Yunan Wu, Francisco M. Castro-Macías, Pablo Morales-Álvarez, Rafael Molina, Aggelos K. Katsaggelos
P02-092	Source-Free Domain Adaptation for Medical Image Segmentation via Prototype-Anchored Feature Alignment and Contrastive Learning Qinji Yu, Nan Xi, Junsong Yuan, Ziyu Zhou, Kang Dang, Xiaowei Ding
P02-093	Source-Free Domain Adaptive Fundus Image Segmentation with Class-Balanced Mean Teacher Longxiang Tang, Kai Li, Chunming He, Yulun Zhang, Xiu Li
P02-094	Spectral Adversarial MixUp for Few-Shot Unsupervised Domain Adaptation Jiajin Zhang, Hanqing Chao, Amit Dhurandhar, Pin-Yu Chen, Ali Tajer, Yangyang Xu, Pingkun Yan
P02-095	Structured State Space Models for Multiple Instance Learning in Digital Pathology Leo Fillioux, Joseph Boyd, Maria Vakalopoulou, Paul-Henry Cournède, Stergios Christodoulidis
P02-096	Towards Accurate Microstructure Estimation via 3D Hybrid Graph Transformer Junqing Yang, Haotian Jiang, Tewodros Tassew, Peng Sun, Jiquan Ma, Yong Xia, Pew-Thian Yap, Geng Chen
P02-097	Towards Expert-Amateur Collaboration: Prototypical Label Isolation Learning for Left Atrium Segmentation with Mixed-Quality Labels Zhe Xu, Jiangpeng Yan, Donghuan Lu, Yixin Wang, Jie Luo, Yefeng Zheng, Raymond Kai-yu Tong

## Poster 2: Machine Learning – Learning Strategies

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P02-098	TPRO: Text-prompting-based Weakly Supervised Histopathology Tissue Segmentation Shaoteng Zhang, Jianpeng Zhang, Yutong Xie, Yong Xia
P02-099	Tracking adaptation to improve SuperPoint for 3D reconstruction in endoscopy O. León Barbed, José M. M. Montiel, Pascal Fua, Ana C. Murillo
P02-100	UM-CAM: Uncertainty-weighted Multi-resolution Class Activation Maps for Weakly-supervised Fetal Brain Segmentation Jia Fu, Tao Lu, Shaoting Zhang, Guotai Wang
P02-101	Unsupervised 3D out-of-distribution detection with latent diffusion models Mark S. Graham, Walter Hugo Lopez Pinaya, Paul Wright, Petru-Daniel Tudosiu, Yee H. Mah, James T. Teo, H. Rolf Jäger, David Werring, Parashkev Nachev, Sebastien Ourselin, M. Jorge Cardoso
P02-102	Unsupervised 3D registration through optimization-guided cyclical self-training Alexander Bigalke, Lasse Hansen, Tony C. W. Mok, Mattias P. Heinrich
P02-103	Unsupervised Discovery of 3D Hierarchical Structure with Generative Diffusion Features Nurislam Tursynbek, Marc Niethammer
P02-104	Unsupervised Domain Adaptation for Anatomical Landmark Detection Haibo Jin, Haoxuan Che, Hao Chen
P02-105	Unsupervised Domain Transfer with Conditional Invertible Neural Networks Kris K. Dreher, Leonardo Ayala, Melanie Schellenberg, Marco Hübner, Jan-Hinrich Nölke, Tim J. Adler, Silvia Seidlitz, Jan Sellner, Alexander Studier-Fischer, Janek Gröhl, Felix Nickel, Ullrich Köthe, Alexander Seitel, Lena Maier-Hein
P02-106	Unsupervised Learning for Feature Extraction and Temporal Alignment of 3D+t Point Clouds of Zebrafish Embryos Zhu Chen, Ina Laube, Johannes Stegmaier
P02-107	UOD: Universal One-shot Detection of Anatomical Landmarks Heqin Zhu, Quan Quan, Qingsong Yao, Zaiyi Liu, S. Kevin Zhou
P02-108	VesselVAE: Recursive Variational Autoencoders for 3D Blood Vessel Synthesis Paula Feldman, Miguel Fainstein, Viviana Siless, Claudio Delrieux, Emmanuel Iarussi
P02-109	VISA-FSS: A Volume-Informed Self Supervised Approach for Few-Shot 3D Segmentation Mohammad Mozafari, Adeleh Bitarafan, Mohammad Farid Azampour, Azade Farshad, Mahdiah Soleymani Baghshah, Nassir Navab
P02-110	vox2vec: A Framework for Self-supervised Contrastive Learning of Voxel-level Representations in Medical Images Mikhail Goncharov, Vera Soboleva, Anvar Kurmukov, Maxim Pisov, Mikhail Belyaev
P02-111	Weakly Supervised Lesion Localization of Nascent Geographic Atrophy in Age-Related Macular Degeneration Heming Yao, Adam Pely, Zhichao Wu, Simon S. Gao, Robyn H. Guymer, Hao Chen, Mohsen Hejrati, Miao Zhang
P02-112	Weakly-supervised Drug Efficiency Estimation with Confidence Score: Application to COVID-19 Drug Discovery Nahal Mirzaie, Mohammad V. Sanian, Mohammad H. Rohban
P02-113	Weakly-supervised positional contrastive learning: application to cirrhosis classification Emma Sarfati, Alexandre Bône, Marc-Michel Rohé, Pietro Gori, Isabelle Bloch

**Poster 2: Machine Learning – Learning Strategies****Monday, Oct 9, 2023, 16:00 to 17:30****Poster Hall**

P02-114	What Do AEs Learn? Challenging Common Assumptions in Unsupervised Anomaly Detection Cosmin I. Bercea, Daniel Rueckert, Julia A. Schnabel
P02-115	You've Got Two Teachers: Co-evolutionary Image and Report Distillation for Semi-supervised Anatomical Abnormality Detection in Chest X-ray Jinghan Sun, Dong Wei, Zhe Xu, Donghuan Lu, Hong Liu, Liansheng Wang, Yefeng Zheng
P02-116	Zero-shot Nuclei Detection via Visual-Language Pre-trained Models Yongjian Wu, Yang Zhou, Jiya Saiyin, Bingzheng Wei, Maode Lai, Jianzhong Shou, Yubo Fan, Yan Xu

## Tuesday, October 10

08:00 to 09:30

Oral 5: Machine Learning II – Towards Transparent AI

Oral 6: Neuroimaging – Morphology to Functionality

<b>Oral 5: Machine Learning II – Towards Transparent AI</b> <b>Tuesday, October 10, 08:00 to 09:30</b> <b>Exhibit Hall A – Main Hall</b>		<b>Oral 6: Neuroimaging – Morphology to Functionality</b> <b>Tuesday, October 10, 08:00 to 09:30</b> <b>Ballroom A – Parallel Hall</b>	
08:00	Interpretable Medical Image Classification using Prototype Learning and Privileged Information Speaker: Luisa Gallée, Experimental Radiology, University Hospital Ulm, Germany	Dynamic Functional Connectome Harmonics Speaker: Hoyt Patrick Taylor, University of North Carolina at Chapel Hill, USA	
08:15	How Reliable are the Metrics Used for Assessing Reliability in Medical Imaging? Speaker: Mayank Gupta, Indian Institute of Technology Delhi, India	Mixing Temporal Graphs with MLP for Longitudinal Brain Connectome Analysis Speaker: Hyuna Cho, Pohang University of Science and Technology, South Korea	
08:30	Interpretable Deep Biomarker for Serial Monitoring of Carotid Atherosclerosis Based on Three-Dimensional Ultrasound Imaging Speaker: Xueli Chen, City University of Hong Kong, Hong Kong SAR, China	Unified surface and volumetric inference on functional imaging data Speaker: Thomas F. Kirk, University of Nottingham, United Kingdom	
08:45	B-Cos Aligned Transformers Learn Human-Interpretable Features Speaker: Manuel Tran, Technical University Munich, Germany	Multi-task Joint Prediction of Infant Cortical Morphological and Cognitive Development Speaker: Xinrui Yuan, The University of North Carolina at Chapel Hill, USA	
09:00	An Explainable Geometric-Weighted Graph Attention Network for Identifying Functional Networks Associated with Gait Impairment Speaker: Favour Nerrise, Stanford University, USA	Flexible Unfolding of Circular Structures for Rendering Textbook-Style Cerebrovascular Maps Speaker: Leonhard Rist, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany	
09:15	A Reliable and Interpretable Framework of Multi-view Learning for Liver Fibrosis Staging Speaker: Zheyao Gao, Fudan University, China	Bidirectional Mapping with Contrastive Learning on Multimodal Neuroimaging Data Speaker: Kai Ye, University of Pittsburgh, USA	

<b>Poster 3: Machine Learning: Explainability, Bias, and Uncertainty</b>	
<b>Tuesday, Oct 10, 2023, 09:30 to 11:00</b>	
<b>Poster Hall</b>	
P03-001	A coupled-mechanisms modelling framework for neurodegeneration Tiantian He, Elinor Thompson, Anna Schroder, Neil P. Oxtoby, Ahmed Abdulaal, Frederik Barkhof, Daniel C. Alexander
P03-002	A flexible framework for simulating and evaluating biases in deep learning-based medical image analysis Emma A.M. Stanley, Matthias Wilms, Nils D. Forkert
P03-003	A Model-Agnostic Framework for Universal Anomaly Detection of Multi-Organ and Multi-Modal Images Yinghao Zhang, Donghuan Lu, Munan Ning, Liansheng Wang, Dong Wei, Yefeng Zheng
P03-004	A Motion Transformer for Single Particle Tracking in Fluorescence Microscopy Images Yudong Zhang, Ge Yang
P03-005	A Privacy-Preserving Walk in the Latent Space of Generative Models for Medical Applications Matteo Pennisi, Federica Proietto Salanitri, Giovanni Bellitto, Simone Palazzo, Ulas Bagci, Concetto Spampinato
P03-006	A Spatial-Temporal Deformable Attention based Framework for Breast Lesion Detection in Videos Chao Qin, Jiale Cao, Huazhu Fu, Rao Muhammad Anwer, Fahad Shahbaz Khan
P03-007	A Video-based End-to-end Pipeline for Non-nutritive Sucking Action Recognition and Segmentation in Young Infants Shaotong Zhu, Michael Wan, Elaheh Hatamimajoumerd, Kashish Jain, Samuel Zlota, Cholpady Vikram Kamath, Cassandra B. Rowan, Emma C. Grace, Matthew S. Goodwin, Marie J. Hayes, Rebecca A. Schwartz-Mette, Emily Zimmerman, Sarah Ostadabbas
P03-008	Adaptive Multi-scale Online Likelihood Network for AI-assisted Interactive Segmentation Muhammad Asad, Helena Williams, Indrajeet Mandal, Sarim Ather, Jan Deprest, Jan D'hooge, Tom Vercauteren
P03-009	An Explainable Geometric-Weighted Graph Attention Network for Identifying Functional Networks Associated with Gait Impairment Favour Nerrise, Qingyu Zhao, Kathleen L. Poston, Kilian M. Pohl, Ehsan Adeli
P03-010	An Interpretable and Attention-based Method for Gaze Estimation Using Electroencephalography Nina Weng, Martyna Plomecka, Manuel Kaufmann, Ard Kastrati, Roger Wattenhofer, Nicolas Langer
P03-011	Aneurysm Pose Estimation with Deep Learning Youssef Assis, Liang Liao, Fabien Pierre, René Anxionnat, Erwan Kerrien
P03-012	ArSDM: Colonoscopy Images Synthesis with Adaptive Refinement Semantic Diffusion Models Yuhao Du, Yuncheng Jiang, Shuangyi Tan, Xusheng Wu, Qi Dou, Zhen Li, Guanbin Li, Xiang Wan
P03-013	Assignment Theory-Augmented Neural Network for Dental Arch Labeling Tudor Dascalu, Bulat Ibragimov
P03-014	Asymmetric Contour Uncertainty Estimation for Medical Image Segmentation Thierry Judge, Olivier Bernard, Woo-Jin Cho Kim, Alberto Gomez, Agisilaos Chartsias, Pierre-Marc Jodoin
P03-015	Attentive Deep Canonical Correlation Analysis for Diagnosing Alzheimer's Disease using Multimodal Imaging Genetics Rong Zhou, Houliang Zhou, Brian Y. Chen, Li Shen, Yu Zhang, Lifang He

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P03-016	Bidirectional Mapping with Contrastive Learning on Multimodal Neuroimaging Data Kai Ye, Haoteng Tang, Siyuan Dai, Lei Guo, Johnny Yuehan Liu, Yalin Wang, Alex Leow, Paul M. Thompson, Heng Huang, Liang Zhan
P03-017	Boundary-weighted logit consistency improves calibration of segmentation networks Neerav Karani, Neel Dey, Polina Golland
P03-018	Category-independent Visual Explanation for Medical Deep Network Understanding Yiming Qian, Liangzhi Li, Huazhu Fu, Meng Wang, Qingsheng Peng, Yih Chung Tham, Chingyu Cheng, Yong Liu, Rick Siow Mong Goh, Xinxing Xu
P03-019	Centroid-aware feature recalibration for cancer grading in pathology images Jaeung Lee, Keunho Byeon, Jin Tae Kwak
P03-020	Chest X-ray Image Classification: A Causal Perspective Weizhi Nie, Chen Zhang, Dan Song, Yunpeng Bai, Keliang Xie, An-An Liu
P03-021	CheXstray: A Real-Time Multi-Modal Monitoring Workflow for Medical Imaging AI Jameson Merkow, Arjun Soin, Jin Long, Joseph Paul Cohen, Smitha Saligrama, Christopher Bridge, Xiyu Yang, Stephen Kaiser, Steven Borg, Ivan Tarapov, Matthew P Lungren
P03-022	Class Specific Feature Disentanglement And Text Embeddings For Multi-Label Generalized Zero Shot CXR Classification Dwarikanath Mahapatra, Antonio Jose Jimeno Yepes, Shiba Kuanar, Sudipta Roy, Behzad Bozorgtabar, Mauricio Reyes, Zongyuan Ge
P03-023	Client-Level Differential Privacy via Adaptive Intermediary in Federated Medical Imaging Meirui Jiang, Yuan Zhong, Anjie Le, Xiaoxiao Li, Qi Dou
P03-024	Co-assistant Networks for Label Correction Xuan Chen, Weiheng Fu, Tian Li, Xiaoshuang Shi, Hengtao Shen, Xiaofeng Zhu
P03-025	ConTrack: Contextual Transformer for Device Tracking in X-ray Marc Demoustier, Yue Zhang, Venkatesh Narasimha Murthy, Florin C. Ghesu, Dorin Comaniciu
P03-026	Cross-modulated Few-shot Image Generation for Colorectal Tissue Classification Amandeep Kumar, Ankan Kumar Bhunia, Sanath Narayan, Hisham Cholakkal, Rao Muhammad Anwer, Jorma Laaksonen, Fahad Shahbaz Khan
P03-027	CXR-CLIP: Toward Large Scale Chest X-ray Language-Image Pre-training Kihyun You, Jawook Gu, Jiyeon Ham, Beomhee Park, Jiho Kim, Eun K. Hong, Woonhyuk Baek, Byungseok Roh
P03-028	Data AUDIT: Identifying Attribute Utility- and Detectability-Induced Bias in Task Models Mitchell Pavlak, Nathan Drenkow, Nicholas Petrick, Mohammad Mehdi Farhangi, Mathias Unberath
P03-029	Debiasing Medical Visual Question Answering via Counterfactual Training Chenlu Zhan, Peng Peng, Hanrong Zhang, Haiyue Sun, Chunnan Shang, Tao Chen, Hongsen Wang, Gaoang Wang, Hongwei Wang
P03-030	DeDA: Deep Directed Accumulator Hang Zhang, Rongguang Wang, Renjiu Hu, Jinwei Zhang, Jiahao Li
P03-031	Deep Learning-Based Air Trapping Quantification using Paired Inspiratory-Expiratory Ultra-Low Dose CT Sarah M. Muller, Sundaresh Ram, Katie J. Bayfield, Julia H. Reuter, Sonja Gestewitz, Lifeng Yu, Mark O. Wielpütz, Hans-Ulrich Kauczor, Claus P. Heussel, Terry E. Robinson, Brian J. Bartholmai, Charles R. Hatt, Paul D. Robinson, Craig J. Galban, Oliver Weinheimer

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P03-032	Deep Learning-based Anonymization of Chest Radiographs: A Utility-preserving Measure for Patient Privacy Kai Packhäuser, Sebastian Gündel, Florian Thamm, Felix Denzinger, Andreas Maier
P03-033	DeepGraphDMD: Interpretable Spatio-Temporal Decomposition of Non-linear Functional Brain Network Dynamics Md Asadullah Turja, Martin Styner, Guorong Wu
P03-034	Deployment of Image Analysis Algorithms under Prevalence Shifts Patrick Godau, Piotr Kalinowski, Evangelia Christodoulou, Annika Reinke, Minu Tizabi, Luciana Ferrer, Paul F. Jäger, Lena Maier-Hein
P03-035	DiffMix: Diffusion Model-based Data Synthesis for Nuclei Segmentation and Classification in Imbalanced Pathology Image Datasets Hyun-Jic Oh, Won-Ki Jeong
P03-036	DiMix: Disentangle-and-Mix based domain generalizable medical image segmentation Hyeongyu Kim, Yejee Shin, Dosik Hwang
P03-037	Distilling BlackBox to Interpretable models for Efficient Transfer Learning Shantanu Ghosh, Ke Yu, Kayhan Batmanghelich
P03-038	Dynamic Graph Neural Representation Based Multi-modal Fusion Model for Cognitive Outcome Prediction in Stroke Cases Shuting Liu, Baochang Zhang, Rong Fang, Daniel Rueckert, Veronika A. Zimmer
P03-039	ECL: Class-Enhancement Contrastive Learning for Long-tailed Skin Lesion Classification Yilan Zhang, Jianqi Chen, Ke Wang, Fengying Xie
P03-040	Efficient Subclass Segmentation in Medical Images Linrui Dai, Wenhui Lei, Xiaofan Zhang
P03-041	Enabling Geometry Aware Learning Through Differentiable Epipolar View Translation Maximilian Rohleder, Charlotte Pradel, Fabian Wagner, Mareike Thies, Noah Maul, Felix Denzinger, Andreas Maier, Bjoern Kreher
P03-042	Enhance Early Diagnosis Accuracy of Alzheimer's Disease by Elucidating Interactions between Amyloid Cascade and Tau Propagation Tingting Dan, Minjeong Kim, Won Hwa Kim, Guorong Wu
P03-043	Evidence Reconciled Neural Network for Out-of-Distribution Detection in Medical Images Wei Fu, Yufei Chen, Wei Liu, Xiaodong Yue, Chao Ma
P03-044	Explainable Image Classification with Improved Trustworthiness for Tissue Characterisation Alfie Roddan, Chi Xu, Serine Ajlouni, Irini Kakaletri, Patra Charalampaki, Stamatia Giannarou
P03-045	Explaining Massive-Training Artificial Neural Networks in Medical Image Analysis Task through Visualizing Functions within the Models Ze Jin, Maolin Pang, Yuqiao Yang, Fahad Parvez Mahdi, Tianyi Qu, Ren Sasage, Kenji Suzuki
P03-046	FairAdaBN: Mitigating unfairness with adaptive batch normalization and its application to dermatological disease classification Zikang Xu, Shang Zhao, Quan Quan, Qingsong Yao, S. Kevin Zhou
P03-047	Faithful Synthesis of Low-dose Contrast-enhanced Brain MRI Scans using Noise-preserving Conditional GANs Thomas Pinetz, Erich Kobler, Robert Haase, Katerina Deike-Hofmann, Alexander Radbruch, Alexander Effland
P03-048	FedContrast-GPA: Heterogeneous Federated Optimization via Local Contrastive Learning and Global Process-aware Aggregation Qin Zhou, Guoyan Zheng



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P03-049	Federated Uncertainty-Aware Aggregation for Fundus Diabetic Retinopathy Staging Meng Wang, Lianyu Wang, Xinxing Xu, Ke Zou, Yiming Qian, Rick Siow Mong Goh, Yong Liu, Huazhu Fu
P03-050	FedGrav: An Adaptive Federated Aggregation Algorithm for Multi-institutional Medical Image Segmentation Zhifang Deng, Dandan Li, Shi Tan, Ying Fu, Xueguang Yuan, Xiaohong Huang, Yong Zhang, Guangwei Zhou
P03-051	FedIIC: Towards Robust Federated Learning for Class-Imbalanced Medical Image Classification Nannan Wu, Li Yu, Xin Yang, Kwang-Ting Cheng, Zengqiang Yan
P03-052	FedSoup: Improving Generalization and Personalization in Federated Learning via Selective Model Interpolation Minghui Chen, Meirui Jiang, Qi Dou, Zehua Wang, Xiaoxiao Li
P03-053	FE-STGNN: Spatio-Temporal Graph Neural Network with Functional and Effective Connectivity Fusion for MCI Diagnosis Dongdong Chen, Lichi Zhang
P03-054	FeSViBS: Federated Split Learning of Vision Transformer with Block Sampling Faris Almalik, Naif Alkhunaizi, Ibrahim Almakky, Karthik Nandakumar
P03-055	Few Shot Medical Image Segmentation with Cross Attention Transformer Yi Lin, Yufan Chen, Kwang-Ting Cheng, Hao Chen
P03-056	Fine-Tuning Network in Federated Learning for Personalized Skin Diagnosis Kyungsu Lee, Haeyun Lee, Thiago Coutinho Cavalcanti, Sewoong Kim, Georges El Fakhri, Dong Hun Lee, Jonghye Woo, Jae Youn Hwang
P03-057	Fourier Test-time Adaptation with Multi-level Consistency for Robust Classification Yuhao Huang, Xin Yang, Xiaoqiong Huang, Xinrui Zhou, Haozhe Chi, Haoran Dou, Xindi Hu, Jian Wang, Xuedong Deng, Dong Ni
P03-058	Frequency Domain Adversarial Training for Robust Volumetric Medical Segmentation Asif Hanif, Muzammal Naseer, Salman Khan, Mubarak Shah, Fahad Shahbaz Khan
P03-059	From Mesh Completion to AI Designed Crown Golriz Hosseinimanesht, Farnoosh Ghadiri, Francois Guibault, Farida Cheriet, Julia Keren
P03-060	Fully Bayesian VIB-DeepSSM Jadie Adams, Shireen Y. Elhabian
P03-061	Gadolinium-Free Cardiac MRI Myocardial Scar Detection by 4D Convolution Factorization Amine Amyar, Shiro Nakamori, Manuel Morales, Siyeop Yoon, Jennifer Rodriguez, Jiwon Kim, Robert M. Judd, Jonathan W. Weinsaft, Reza Nezafat
P03-062	GRACE: A Generalized and Personalized Federated Learning Method for Medical Imaging RuiPeng Zhang, Ziqing Fan, Qinwei Xu, Jiangchao Yao, Ya Zhang, Yanfeng Wang
P03-063	How Reliable are the Metrics Used for Assessing Reliability in Medical Imaging? Mayank Gupta, Soumen Basu, Chetan Arora
P03-064	Image2SSM: Reimagining Statistical Shape Models from Images with Radial Basis Functions Hong Xu, Shireen Y. Elhabian

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P03-065	Inflated 3D Convolution-Transformer for Weakly-supervised Carotid Stenosis Grading with Ultrasound Videos Xinrui Zhou, Yuhao Huang, Wufeng Xue, Xin Yang, Yuxin Zou, Qilong Ying, Yuanji Zhang, Jia Liu, Jie Ren, Dong Ni
P03-066	Interpretable Medical Image Classification using Prototype Learning and Privileged Information Luisa Gallée, Meinrad Beer, Michael Götz
P03-067	Joint optimization of a $\beta$ -VAE for ECG task-specific feature extraction Viktor van der Valk, Douwe Atsma, Roderick Scherptong, Marius Staring
P03-068	Label-preserving Data Augmentation in Latent Space for Diabetic Retinopathy Recognition Zhihao Zhao, Junjie Yang, Shahrooz Faghihroohi, Kai Huang, Mathias Maier, Nassir Navab, M. Ali Nasseri
P03-069	Learnable Subdivision Graph Neural Network for Functional Brain Network Analysis and Interpretable Cognitive Disorder Diagnosis Dongdong Chen, Mengjun Liu, Zhenrong Shen, Xiangyu Zhao, Qian Wang, Lichi Zhang
P03-070	Learning Transferable Object-Centric Diffeomorphic Transformations for Data Augmentation in Medical Image Segmentation Nilesh Kumar, Prashna K. Gyawali, Sandesh Ghimire, Linwei Wang
P03-071	Localized Questions in Medical Visual Question Answering Sergio Tascon-Morales, Pablo Márquez-Neila, Raphael Sznitman
P03-072	Localized Region Contrast for Enhancing Self-Supervised Learning in Medical Image Segmentation Xiangyi Yan, Junayed Naushad, Chenyu You, Hao Tang, Shanlin Sun, Kun Han, Haoyu Ma, James S. Duncan, Xiaohui Xie
P03-073	Longitudinal Multimodal Transformer Integrating Imaging and Latent Clinical Signatures From Routine EHRs for Pulmonary Nodule Classification Thomas Z. Li, John M. Still, Kaiwen Xu, Ho Hin Lee, Leon Y. Cai, Aravind R. Krishnan, Riqiang Gao, Mirza S. Khan, Sanja Antic, Michael Kammer, Kim L. Sandler, Fabien Maldonado, Bennett A. Landman, Thomas A. Lasko
P03-074	M3D-NCA: Robust 3D Segmentation with Built-in Quality Control John Kalkhof, Anirban Mukhopadhyay
P03-075	Maximum Entropy on Erroneous Predictions: Improving model calibration for medical image segmentation Agostina J. Larrazabal, César Martínez, Jose Dolz, Enzo Ferrante
P03-076	Mitigating Calibration Bias Without Fixed Attribute Grouping for Improved Fairness in Medical Imaging Analysis Changjian Shui, Justin Szeto, Raghav Mehta, Douglas L. Arnold, Tal Arbel
P03-077	Mixing Temporal Graphs with MLP for Longitudinal Brain Connectome Analysis Hyuna Cho, Guorong Wu, Won Hwa Kim
P03-078	MPBD-LSTM: A Predictive Model For Colorectal Liver Metastases Using Time Series Multi-phase Contrast-Enhanced CT Scans Xueyang Li, Han Xiao, Weixiang Weng, Xiaowei Xu, Yiyu Shi
P03-079	Multi-Head Multi-Loss Model Calibration Adrian Galdran, Johan W. Verjans, Gustavo Carneiro, Miguel A. González Ballester
P03-080	Multimodal brain age estimation using interpretable adaptive population-graph learning Kyriaki-Margarita Bintsi, Vasileios Baltatzis, Rolandos Alexandros Potamias, Alexander Hammers, Daniel Rueckert

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P03-081	Multi-objective point cloud autoencoders for explainable myocardial infarction prediction Marcel Beetz, Abhirup Banerjee, Vicente Grau
P03-082	NeuroExplainer: Fine-Grained Attention Decoding to Uncover Cortical Development Patterns of Preterm Infants Chenyu Xue, Fan Wang, Yuanzhuo Zhu, Hui Li, Deyu Meng, Dinggang Shen, Chunfeng Lian
P03-083	On the Relevance of Temporal Features for Medical Ultrasound Video Recognition D. Hudson Smith, John Paul Lineberger, George H. Baker
P03-084	One-shot Federated Learning on Medical Data using Knowledge Distillation with Image Synthesis and Client Model Adaptation Myeongkyun Kang, Philip Chikontwe, Soopil Kim, Kyong Hwan Jin, Ehsan Adeli, Kilian M. Pohl, Sang Hyun Park
P03-085	Partial Vessels Annotation-based Coronary Artery Segmentation with Self-training and Prototype Learning Zheng Zhang, Xiaolei Zhang, Yaolei Qi, Guanyu Yang
P03-086	Partially Supervised Multi-Organ Segmentation via Affinity-aware Consistency Learning and Cross Site Feature Alignment Qin Zhou, Peng Liu, Guoyan Zheng
P03-087	Path-based Heterogeneous Brain Transformer Network for Resting-State Functional Connectivity Analysis Ruiyan Fang, Yu Li, Xin Zhang, Shengxian Chen, Jiale Cheng, Xiangmin Xu, Jieling Wu, Weili Lin, Li Wang, Zhengwang Wu, Gang Li
P03-088	Performance Metrics for Probabilistic Ordinal Classifiers Adrian Galdran
P03-089	Physics-based Decoding Improves Magnetic Resonance Fingerprinting Juyeon Heo, Pingfan Song, Weiyang Liu, Adrian Weller
P03-090	Point Cloud Diffusion Models for Automatic Implant Generation Paul Friedrich, Julia Wolleb, Florentin Bieder, Florian M. Thieringer, Philippe C. Cattin
P03-091	Prediction of Cognitive Scores by Joint Use of Movie-watching fMRI Connectivity and Eye Tracking via Attention-CensNet Jiaxing Gao, Lin Zhao, Tianyang Zhong, Changhe Li, Zhibin He, Yaonai Wei, Shu Zhang, Lei Guo, Tianming Liu, Junwei Han, Tuo Zhang
P03-092	Prediction of Infant Cognitive Development with Cortical Surface-based Multimodal Learning Jiale Cheng, Xin Zhang, Fenqiang Zhao, Zhengwang Wu, Xinrui Yuan, Li Wang, Weili Lin, Gang Li
P03-093	Pre-trained Diffusion Models for Plug-and-Play Medical Image Enhancement Jun Ma, Yuanzhi Zhu, Chenyu You, Bo Wang
P03-094	Probabilistic Modeling Ensemble Vision Transformer Improves Complex Polyp Segmentation Tianyi Ling, Chengyi Wu, Huan Yu, Tian Cai, Da Wang, Yincong Zhou, Ming Chen, Kefeng Ding
P03-095	Reconstructing the Hemodynamic Response Function via a Bimodal Transformer Yoni Choukroun, Lior Golgher, Pablo Blinder, Lior Wolf
P03-096	Rectifying Noisy Labels with Sequential Prior: Multi-Scale Temporal Feature Affinity Learning for Robust Video Segmentation Beilei Cui, Mingqing Zhang, Mengya Xu, An Wang, Wu Yuan, Hongliang Ren
P03-097	Regular SE(3) Group Convolutions for Volumetric Medical Image Analysis Thijs P. Kuipers, Erik J. Bekkers

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P03-098	Reliable Multimodality Eye Disease Screening via Mixture of Student's t Distributions Ke Zou, Tian Lin, Xuedong Yuan, Haoyu Chen, Xiaojing Shen, Meng Wang, Huazhu Fu
P03-099	Rethinking Semi-Supervised Federated Learning: How to co-train fully-labeled and fully-unlabeled client imaging data Pramit Saha, Divyanshu Mishra, J. Alison Noble
P03-100	Retinal Thickness Prediction from Multi-modal Fundus Photography Yihua Sun, Dawei Li, Seongho Kim, Ya Xing Wang, Jinyuan Wang, Tien Yin Wong, Hongen Liao, Su Jeong Song
P03-101	Reveal to Revise: An Explainable AI Life Cycle for Iterative Bias Correction of Deep Models Frederik Pahde, Maximilian Dreyer, Wojciech Samek, Sebastian Lapuschkin
P03-102	Right for the Wrong Reason: Can Interpretable ML Techniques Detect Spurious Correlations? Susu Sun, Lisa M. Koch, Christian F. Baumgartner
P03-103	Robust Hough and Spatial-To-Angular Transform Based Rotation Estimation for Orthopedic X-Ray Images Magdalena Bachmaier, Maximilian Rohleder, Benedict Swartman, Maxim Privalov, Andreas Maier, Holger Kunze
P03-104	Robust vertebra identification using simultaneous node and edge predicting Graph Neural Networks Vincent Bürgin, Raphael Prevost, Marijn F. Stollenga
P03-105	SATTA: Semantic-Aware Test-Time Adaptation for Cross-Domain Medical Image Segmentation Yuhan Zhang, Kun Huang, Cheng Chen, Qiang Chen, Pheng-Ann Heng
P03-106	Scale Federated Learning for Label Set Mismatch in Medical Image Classification Zhipeng Deng, Luyang Luo, Hao Chen
P03-107	Segmentation Distortion: Quantifying Segmentation Uncertainty under Domain Shift via the Effects of Anomalous Activations Jonathan Lennartz, Thomas Schultz
P03-108	Self-aware and Cross-sample Prototypical Learning for Semi-supervised Medical Image Segmentation Zhenxi Zhang, Ran Ran, Chunna Tian, Heng Zhou, Xin Li, Fan Yang, Zhicheng Jiao
P03-109	Self-Supervised Learning for Physiologically-Based Pharmacokinetic Modeling in Dynamic PET Francesca De Benetti, Walter Simson, Magdalini Paschali, Hasan Sari, Axel Rominger, Kuangyu Shi, Nassir Navab, Thomas Wendler
P03-110	SFusion: Self-attention based N-to-One Multimodal Fusion Block Zecheng Liu, Jia Wei, Rui Li, Jianlong Zhou
P03-111	SMRD: SURE-based Robust MRI Reconstruction with Diffusion Models Batu Ozturkler, Chao Liu, Benjamin Eckart, Morteza Mardani, Jiaming Song, Jan Kautz
P03-112	Spatiotemporal Hub Identification in Brain Network by Learning Dynamic Graph Embedding on Grassmannian Manifold Defu Yang, Hui Shen, Minghan Chen, Yitian Xue, Shuai Wang, Guorong Wu, Wentao Zhu
P03-113	SurfFlow: A Flow-Based Approach for Rapid and Accurate Cortical Surface Reconstruction from Infant Brain MRI Xiaoyang Chen, Junjie Zhao, Siyuan Liu, Sahar Ahmad, Pew-Thian Yap
P03-114	Synthetic Augmentation with Large-scale Unconditional Pre-training Jiarong Ye, Haomiao Ni, Peng Jin, Sharon X. Huang, Yuan Xue

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P03-115	TauFlowNet: Uncovering Propagation Mechanism of Tau Aggregates by Neural Transport Equation Tingting Dan, Minjeong Kim, Won Hwa Kim, Guorong Wu
P03-116	Temporal Uncertainty Localization to Enable Human-in-the-loop Analysis of Dynamic Contrast-enhanced Cardiac MRI Datasets Dilek M. Yalcinkaya, Khalid Youssef, Bobak Heydari, Orlando Simonetti, Rohan Dharmakumar, Subha Raman, Behzad Sharif
P03-117	The Role of Subgroup Separability in Group-Fair Medical Image Classification Charles Jones, Mélanie Roschewitz, Ben Glocker
P03-118	Thyroid Nodule Diagnosis in Dynamic Contrast-enhanced Ultrasound via Microvessel Infiltration Awareness Haojie Han, Hongen Liao, Daoqiang Zhang, Wentao Kong, Fang Chen
P03-119	Toward Fairness Through Fair Multi-Exit Framework for Dermatological Disease Diagnosis Ching-Hao Chiu, Hao-Wei Chung, Yu-Jen Chen, Yiyu Shi, Tsung-Yi Ho
P03-120	Towards AI-driven radiology education: A self-supervised segmentation-based framework for high-precision medical image editing Kazuma Kobayashi, Lin Gu, Ryuichiro Hataya, Mototaka Miyake, Yasuyuki Takamizawa, Sono Ito, Hirokazu Watanabe, Yukihiro Yoshida, Hiroki Yoshimura, Tatsuya Harada, Ryuji Hamamoto
P03-121	Towards frugal unsupervised detection of subtle abnormalities in medical imaging Geoffroy Oudoumanessah, Carole Lartzien, Michel Dojat, Florence Forbes
P03-122	Transferability-Guided Multi-Source Model Adaptation for Medical Image Segmentation Chen Yang, Yifan Liu, Yixuan Yuan
P03-123	TransLiver: A Hybrid Transformer Model for Multi-phase Liver Lesion Classification Xierui Wang, Hanning Ying, Xiaoyin Xu, Xiujun Cai, Min Zhang
P03-124	Triangular Analysis of Geographical Interplay of Lymphocytes (TriAnGIL): Predicting Immunotherapy Response in Lung Cancer Sara Arabyarmohammadi, German Corredor, Yufei Zhou, Miguel López de Rodas, Kurt Schalper, Anant Madabhushi
P03-125	Uncovering Structural-Functional Coupling Alterations for Neurodegenerative Diseases Tingting Dan, Minjeong Kim, Won Hwa Kim, Guorong Wu
P03-126	Understanding Silent Failures in Medical Image Classification Till J. Bungert, Levin Kobelke, Paul F. Jäger
P03-127	Weakly Supervised Medical Image Segmentation via Superpixel-guided Scribble Walking and Class-wise Contrastive Regularization Meng Zhou, Zhe Xu, Kang Zhou, Raymond Kai-yu Tong

<b>Poster 4: Computer Aided Diagnosis and Treatment</b>	
<b>Tuesday, October 10, 2023, 13:00 to 14:30</b>	
<b>Poster Hall</b>	
P04-001	A Multimodal Disease Progression Model for Genetic Associations with Disease Dynamics Nemo Fournier, Stanley Durrleman
P04-002	A Multi-Task Method for Immunofixation Electrophoresis Image Classification Yi Shi, Rui-Xiang Li, Wen-Qi Shao, Xin-Cen Duan, Han-Jia Ye, De-Chuan Zhan, Bai-Shen Pan, Bei-Li Wang, Wei Guo, Yuan Jiang
P04-003	A Novel Multi-Task Model Imitating Dermatologists for Accurate Differential Diagnosis of Skin Diseases in Clinical Images Yan-Jie Zhou, Wei Liu, Yuan Gao, Jing Xu, Le Lu, Yuping Duan, Hao Cheng, Na Jin, Xiaoyong Man, Shuang Zhao, Yu Wang
P04-004	A Reliable and Interpretable Framework of Multi-view Learning for Liver Fibrosis Staging Zheyao Gao, Yuanye Liu, Fuping Wu, Nannan Shi, Yuxin Shi, Xiahai Zhuang
P04-005	A Style Transfer-based Augmentation Framework for Improving Segmentation and Classification Performance across Different Sources in Ultrasound Images Bin Huang, Ziyue Xu, Shing-Chow Chan, Zhong Liu, Huiying Wen, Chao Hou, Qicai Huang, Meiqin Jiang, Changfeng Dong, Jie Zeng, Ruhai Zou, Bingsheng Huang, Xin Chen, Shuo Li
P04-006	A Texture Neural Network to Predict the Abnormal Brachial Plexus from Routine Magnetic Resonance Imaging Weiguo Cao, Benjamin M. Howe, Nicholas G. Rhodes, Sumana Ramanathan, Panagiotis Korfiatis, Kimberly K. Amrami, Robert J. Spinner, Timothy L. Kline
P04-007	Acute Ischemic Stroke Onset Time Classification with Dynamic Convolution and Perfusion Maps Fusion Peng Yang, Yuchen Zhang, Haijun Lei, Yueyan Bian, Qi Yang, Baiying Lei
P04-008	Adjustable Robust Transformer for High Myopia Screening in Optical Coherence Tomography Xiao Ma, Zetian Zhang, Zexuan Ji, Kun Huang, Na Su, Songtao Yuan, Qiang Chen
P04-009	Anatomical Landmark Detection Using a Multiresolution Learning Approach with a Hybrid Transformer-CNN Model Thanaporn Viriyasaranon, Serie Ma, Jang-Hwan Choi
P04-010	Anatomy-informed Data Augmentation for Enhanced Prostate Cancer Detection Balint Kovacs, Nils Netzer, Michael Baumgartner, Carolin Eith, Dimitrios Bounias, Clara Meinzer, Paul F. Jäger, Kevin S. Zhang, Ralf Floca, Adrian Schrader, Fabian Isensee, Regula Gnirs, Magdalena Görtz, Viktoria Schütz, Albrecht Stenzinger, Markus Hohenfellner, Heinz-Peter Schlemmer, Ivo Wolf, David Bonekamp, Klaus H. Maier-Hein
P04-011	ASC: Appearance and Structure Consistency for Unsupervised Domain Adaptation in Fetal Brain MRI Segmentation Zihang Xu, Haifan Gong, Xiang Wan, Haofeng Li
P04-012	Automatic Bleeding Risk Rating System of Gastric Varices Yicheng Jiang, Luyue Shi, Wei Qi, Lei Chen, Guanbin Li, Xiaoguang Han, Xiang Wan, Siqi Liu
P04-013	Beyond the Snapshot: Brain Tokenized Graph Transformer for Longitudinal Brain Functional Connectome Embedding Zijian Dong, Yilei Wu, Yu Xiao, Joanna Su Xian Chong, Yueming Jin, Juan Helen Zhou

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P04-014	Boosting Breast Ultrasound Video Classification by the Guidance of Keyframe Feature Centers Anlan Sun, Zhao Zhang, Meng Lei, Yuting Dai, Dong Wang, Liwei Wang
P04-015	CARL: Cross-aligned Representation Learning for Multi-view Lung Cancer Histology Classification Yin Luo, Wei Liu, Tao Fang, Qilong Song, Xuhong Min, Minghui Wang, Ao Li
P04-016	CircleFormer: Circular Nuclei Detection in Whole Slide Images with Circle Queries and Attention Hengxu Zhang, Pengpeng Liang, Zhiyong Sun, Bo Song, Erkang Cheng
P04-017	Cluster-Induced Mask Transformers for Effective Opportunistic Gastric Cancer Screening on Non-contrast CT Scans Mingze Yuan, Yingda Xia, Xin Chen, Jiawen Yao, Junli Wang, Mingyan Qiu, Hexin Dong, Jingren Zhou, Bin Dong, Le Lu, Li Zhang, Zaiyi Liu, Ling Zhang
P04-018	Combat Long-tails in Medical Classification with Relation-aware Consistency and Virtual Features Compensation Li Pan, Yupei Zhang, Qiushi Yang, Tan Li, Zhen Chen
P04-019	Conditional Physics-Informed Graph Neural Network For Fractional Flow Reserve Assessment Baihong Xie, Xiujian Liu, Heye Zhang, Chenchu Xu, Tiejong Zeng, Yixuan Yuan, Guang Yang, Zhifan Gao
P04-020	Contrastive Feature Decoupling for Weakly-supervised Disease Detection Jih-Ciang Wu, Ding-Jie Chen, Chiou-Shann Fuh
P04-021	Contrastive Masked Image-Text Modeling for Medical Visual Representation Learning Cheng Chen, Aoxiao Zhong, Dufan Wu, Jie Luo, Quanzheng Li
P04-022	Convolving Directed Graph Edges via Hodge Laplacian for Brain Network Analysis Joonhyuk Park, Yechan Hwang, Minjeong Kim, Moo K. Chung, Guorong Wu, Won Hwa Kim
P04-023	cOOpD: Reformulating COPD classification on chest CT scans as anomaly detection using contrastive representations Silvia D. Almeida, Carsten T. Lüth, Tobias Norajitra, Tassilo Wald, Marco Nolden, Paul F. Jäger, Claus P. Heussel, Jürgen Biederer, Oliver Weinheimer, Klaus H. Maier-Hein
P04-024	Coupling Bracket Segmentation and Tooth Surface Reconstruction on 3D Dental Models Yuwen Tan, Xiang Xiang, Yifeng Chen, Hongyi Jing, Shiyang Ye, Chaoran Xue, Hui Xu
P04-025	COVID-19 Pneumonia Classification with Transformer from Incomplete Modalities Eduard Lloret Carbonell, Yiqing Shen, Xin Yang, Jing Ke
P04-026	Cross-view Deformable Transformer for Non-displaced Hip Fracture Classification from Frontal-Lateral X-ray Pair Zhonghang Zhu, Qichang Chen, Lequan Yu, Lianxin Wang, Defu Zhang, Baptiste Magnier, Liansheng Wang
P04-027	CT-guided, Unsupervised Super-resolution Reconstruction of Single 3D Magnetic Resonance Image? Jiale Wang, Alexander F. Heimann, Moritz Tannast, Guoyan Zheng
P04-028	DeepSOZ: A Robust Deep Model for Joint Temporal and Spatial Seizure Onset Localization from Multichannel EEG Data Deeksha M. Shama, Jiasen Jing, Archana Venkataraman
P04-029	Detecting domain shift in multiple instance learning for digital pathology using Fréchet Domain Distance Milda Pocevičiūtė, Gabriel Eilertsen, Stina Garvin, Claes Lundström

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P04-030	Detection of basal cell carcinoma in whole slide images Hongyan Xu, Dadong Wang, Arcot Sowmya, Ian Katz
P04-031	Detection-free Pipeline for Cervical Cancer Screening of Whole Slide Images Maosong Cao, Manman Fei, Jiangdong Cai, Luyan Liu, Lichi Zhang, Qian Wang
P04-032	DiffDP: Radiotherapy Dose Prediction via a Diffusion Model Zhenghao Feng, Lu Wen, Peng Wang, Binyu Yan, Xi Wu, Jiliu Zhou, Yan Wang
P04-033	DiffMIC: Dual-Guidance Diffusion Network for Medical Image Classification Yijun Yang, Huazhu Fu, Angelica I. Aviles-Rivero, Carola-Bibiane Schönlieb, Lei Zhu
P04-034	DiffULD: Diffusive Universal Lesion Detection Peiang Zhao, Han Li, Ruiyang Jin, S. Kevin Zhou
P04-035	Diffusion-based Data Augmentation for Nuclei Image Segmentation Xinyi Yu, Guanbin Li, Wei Lou, Siqi Liu, Xiang Wan, Yan Chen, Haofeng Li
P04-036	Diffusion-Based Hierarchical Multi-Label Object Detection to Analyze Panoramic Dental X-rays Ibrahim Ethem Hamamci, Sezgin Er, Enis Simsar, Anjany Sekuboyina, Mustafa Gundogar, Bernd Stadlinger, Albert Mehl, Bjoern Menze
P04-037	Discovering Brain Network Dysfunction in Alzheimer's Disease Using Brain Hypergraph Neural Network Hongmin Cai, Zhixuan Zhou, Defu Yang, Guorong Wu, Jiazhou Chen
P04-038	Distributionally Robust Image Classifiers for Stroke Diagnosis in Accelerated MRI Boran Hao, Guoyao Shen, Ruidi Chen, Chad W. Farris, Stephan W. Anderson, Xin Zhang, Ioannis Ch. Paschalidis
P04-039	Diversity-preserving Chest Radiographs Generation from Reports in One Stage Zeyi Hou, Ruixin Yan, Qizheng Wang, Ning Lang, Xiuzhuang Zhou
P04-040	Dynamic Curriculum Learning via In-Domain Uncertainty for Medical Image Classification Chaoyi Li, Meng Li, Can Peng, Brian C. Lovell
P04-041	Dynamic Structural Brain Network Construction by Hierarchical Prototype Embedding GCN using T1-MRI Yilin Leng, Wenju Cui, Chen Bai, Zirui Chen, Yanyan Zheng, Jian Zheng
P04-042	Enhancing Automatic Placenta Analysis through Distributional Feature Recomposition in Vision-Language Contrastive Learning Yimu Pan, Tongan Cai, Manas Mehta, Alison D. Gernand, Jeffery A. Goldstein, Leena Mithal, Delia Mwinyelle, Kelly Gallagher, James Z. Wang
P04-043	Enhancing Breast Cancer Risk Prediction by Incorporating Prior Images Hyeonsoo Lee, Junha Kim, Eunkyung Park, Minjeong Kim, Taesoo Kim, Thijs Kooi
P04-044	EPVT: Environment-aware Prompt Vision Transformer for Domain Generalization in Skin Lesion Recognition Siyuan Yan, Chi Liu, Zhen Yu, Lie Ju, Dwarikanath Mahapatra, Victoria Mar, Monika Janda, Peter Soyer, Zongyuan Ge
P04-045	Eye-Guided Dual-Path Network for Multi-organ Segmentation of Abdomen Chong Wang, Daoqiang Zhang, Rongjun Ge
P04-046	Fast Non-Markovian Diffusion Model for Weakly Supervised Anomaly Detection in Brain MR Images Jinpeng Li, Hanqun Cao, Jiase Wang, Furui Liu, Qi Dou, Guangyong Chen, Pheng-Ann Heng



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P04-047	Fundus-Enhanced Disease-Aware Distillation Model for Retinal Disease Classification from OCT Images Lehan Wang, Weihang Dai, Mei Jin, Chubin Ou, Xiaomeng Li
P04-048	Gradient and Feature Conformity-Steered Medical Image Classification with Noisy Labels Xiaohan Xing, Zhen Chen, Zhifan Gao, Yixuan Yuan
P04-049	Graph-theoretic automatic lesion tracking and detection of patterns of lesion changes in longitudinal CT studies Beniamin Di Veroli, Richard Lederman, Jacob Sosna, Leo Joskowicz
P04-050	GSDG: Exploring A Global Semantic-guided Dual-stream Graph Model for Automated Volume Differential Diagnosis and Prognosis Shouyu Chen, Xin Guo, Jianping Zhu, Yin Wang
P04-051	HACL-Net: Hierarchical Attention and Contrastive Learning Network for MRI-Based Placenta Accreta Spectrum Diagnosis Mingxuan Lu, Tianyu Wang, Hao Zhu, Mian Li
P04-052	HC-Net: Hybrid Classification Network for Automatic Periodontal Disease Diagnosis Lanzhuju Mei, Yu Fang, Zhiming Cui, Ke Deng, Nizhuan Wang, Xuming He, Yiqiang Zhan, Xiang Zhou, Maurizio Tonetti, Dinggang Shen
P04-053	Hierarchical Vision Transformers for Disease Progression Detection in Chest X-Ray Images Amarachi B. Mbakwe, Lyuyang Wang, Mehdi Moradi, Ismini Lourentzou
P04-054	How Does Pruning Impact Long-Tailed Multi-Label Medical Image Classifiers? Gregory Holste, Ziyu Jiang, Ajay Jaiswal, Maria Hanna, Shlomo Minkowitz, Alan C. Legasto, Joanna G. Escalon, Sharon Steinberger, Mark Bittman, Thomas C. Shen, Ying Ding, Ronald M. Summers, George Shih, Yifan Peng, Zhangyang Wang
P04-055	Improved Prognostic Prediction of Pancreatic Cancer Using Multi-Phase CT by Integrating Neural Distance and Texture-Aware Transformer Hexin Dong, Jiawen Yao, Yuxing Tang, Mingze Yuan, Yingda Xia, Jian Zhou, Hong Lu, Jingren Zhou, Bin Dong, Le Lu, Zaiyi Liu, Li Zhang, Yu Shi, Ling Zhang
P04-056	Improving Image-Based Precision Medicine with Uncertainty-Aware Causal Models Joshua Durso-Finley, Jean-Pierre Falet, Raghav Mehta, Douglas L. Arnold, Nick Pawlowski, Tal Arbel
P04-057	Improving Outcome Prediction of Pulmonary Embolism by De-Biased Multi-Modality Model Zhushi Zhong, Jie Li, Shreyas Kulkarni, Yang Li, Fayez H. Fayad, Helen Zhang, Sun Ho Ahn, Harrison Bai, Xinbo Gao, Michael K. Atalay, Zhicheng Jiao
P04-058	Improving Pathology Localization: Multi-Series Joint Attention Takes the Lead Ashwin Raju, Micha Kornreich, Colin Hansen, James Browning, Jayashri Pawar, Richard Herzog, Benjamin Odry, Li Zhang
P04-059	Incomplete Multimodal Learning for Visual Acuity Prediction after Cataract Surgery Using Masked Self-Attention Qian Zhou, Hua Zou, Haifeng Jiang, Yong Wang
P04-060	Interpretable Deep Biomarker for Serial Monitoring of Carotid Atherosclerosis Based on Three-Dimensional Ultrasound Imaging Xueli Chen, Xinqi Fan, Bernard Chiu
P04-061	Joint prediction of response to therapy, molecular traits, and spatial organisation in colorectal cancer biopsies Ruby Wood, Enric Domingo, Korsuk Sirinukunwattana, Maxime W Lafarge, Viktor H Koelzer, Timothy S Maughan, Jens Rittscher
P04-062	Learning Asynchronous Common and Individual Functional Brain Network for AD Diagnosis Xiang Tang, Xiaocai Zhang, Mengting Liu, Jianjia Zhang

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P04-063	Learning Large Margin Sparse Embeddings for Open Set Medical Diagnosis Mingyuan Liu, Lu Xu, Jicong Zhang
P04-064	Learning Robust Classifier for Imbalanced Medical Image Dataset with Noisy Labels by Minimizing Invariant Risk Jinpeng Li, Hanqun Cao, Jiase Wang, Furui Liu, Qi Dou, Guangyong Chen, Pheng-Ann Heng
P04-065	Learning with Synthesized Data for Generalizable Lesion Detection in Real PET Images Xinyi Yang, Bennett Chin, Michael Silosky, Daniel Litwiller, Debashis Ghosh, Fuyong Xing
P04-066	Lesion-aware Contrastive Learning for Diabetic Retinopathy Diagnosis Shuai Cheng, Qingshan Hou, Peng Cao, Jinzhu Yang, Xiaoli Liu, Osmar R. Zaiane
P04-067	Liver Tumor Screening and Diagnosis in CT with Pixel-Lesion-Patient Network Ke Yan, Xiaoli Yin, Yingda Xia, Fakai Wang, Shu Wang, Yuan Gao, Jiawen Yao, Chunli Li, Xiaoyu Bai, Jingren Zhou, Ling Zhang, Le Lu, Yu Shi
P04-068	M&M: Tackling False Positives in Mammography with a Multi-view and Multi-instance Learning Sparse Detector Yen Nhi Truong Vu, Dan Guo, Ahmed Taha, Jason Su, Thomas Paul Matthews
P04-069	Machine Learning for Automated Mitral Regurgitation Detection from Cardiac Imaging Ke Xiao, Erik Learned-Miller, Evangelos Kalogerakis, James Priest, Madalina Fiterau
P04-070	Merging-Diverging Hybrid Transformer Networks for Survival Prediction in Head and Neck Cancer Mingyuan Meng, Lei Bi, Michael Fulham, Dagan Feng, Jinman Kim
P04-071	Multimodal Deep Fusion in Hyperbolic Space for Mild Cognitive Impairment Study Lu Zhang, Saiyang Na, Tianming Liu, Dajiang Zhu, Junzhou Huang
P04-072	Multi-modality contrastive learning for sarcopenia screening from hip X-rays and clinical information Qiangguo Jin, Changjiang Zou, Hui Cui, Changming Sun, Shu-Wei Huang, Yi-Jie Kuo, Ping Xuan, Leilei Cao, Ran Su, Leyi Wei, Henry B.L. Duh, Yu-Pin Chen
P04-073	Multi-task Learning of Histology and Molecular Markers for Classifying Diffuse Glioma Xiaofei Wang, Stephen Price, Chao Li
P04-074	Multi-View Vertebra Localization and Identification from CT Images Han Wu, Jiadong Zhang, Yu Fang, Zhentao Liu, Nizhuan Wang, Zhiming Cui, Dinggang Shen
P04-075	MUVF-YOLOX: A Multi-modal Ultrasound Video Fusion Network for Renal Tumor Diagnosis Junyu Li, Han Huang, Dong Ni, Wufeng Xue, Dongmei Zhu, Jun Cheng
P04-076	Overall Survival Time Prediction of Glioblastoma on Preoperative MRI Using Lesion Network Mapping Xingcan Hu, Li Xiao, Xiaoyan Sun, Feng Wu
P04-077	Parse and Recall: Towards Accurate Lung Nodule Malignancy Prediction like Radiologists Jianpeng Zhang, Xianghua Ye, Jianfeng Zhang, Yuxing Tang, Minfeng Xu, Jianfei Guo, Xin Chen, Zaiyi Liu, Jingren Zhou, Le Lu, Ling Zhang
P04-078	PAS-Net: Rapid Prediction of Antibiotic Susceptibility from Fluorescence Images of Bacterial Cells Using Parallel Dual-branch Network Wei Xiong, Kaiwei Yu, Liang Yang, Baiying Lei

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P04-079	Pathology-and-genomics Multimodal Transformer for Survival Outcome Prediction Kexin Ding, Mu Zhou, Dimitris N. Metaxas, Shaoting Zhang
P04-080	Patients and Slides are Equal: A Multi-level Multi-instance Learning Framework for Pathological Image Analysis Fei Li, Mingyu Wang, Bin Huang, Xiaoyu Duan, Zhuya Zhang, Ziyin Ye, Bingsheng Huang
P04-081	Polar-Net: A Clinical-Friendly Model for Alzheimer's Disease Detection in OCTA Images Shouyue Liu, Jinkui Hao, Yanwu Xu, Huazhu Fu, Xinyu Guo, Jiang Liu, Yalin Zheng, Yonghuai Liu, Jiong Zhang, Yitian Zhao
P04-082	Positive Definite Wasserstein Graph Kernel for Brain Disease Diagnosis Kai Ma, Xuyun Wen, Qi Zhu, Daoqiang Zhang
P04-083	Privacy-preserving Early Detection of Epileptic Seizures in Videos Deval Mehta, Shobi Sivathamboo, Hugh Simpson, Patrick Kwan, Terence O'Brien, Zongyuan Ge
P04-084	Progressive Attention Guidance for Whole Slide Vulvovaginal Candidiasis Screening Jiangdong Cai, Honglin Xiong, Maosong Cao, Luyan Liu, Lichi Zhang, Qian Wang
P04-085	Prompt-based Grouping Transformer for Nucleus Detection and Classification Junjia Huang, Haofeng Li, Weijun Sun, Xiang Wan, Guanbin Li
P04-086	ProtoASNet: Dynamic Prototypes for Inherently Interpretable and Uncertainty-Aware Aortic Stenosis Classification in Echocardiography Hooman Vaseli, Ang Nan Gu, S. Neda Ahmadi Amiri, Michael Y. Tsang, Andrea Fung, Nima Kondori, Armin Saadat, Purang Abolmaesumi, Teresa S. M. Tsang
P04-087	Radiomics-Informed Deep Learning for Classification of Atrial Fibrillation Sub-Types from Left-Atrium CT Volumes Weihang Dai, Xiaomeng Li, Taihui Yu, Di Zhao, Jun Shen, Kwang-Ting Cheng
P04-088	Rad-ReStruct: A Novel VQA Benchmark and Method for Structured Radiology Reporting Chantal Pellegrini, Matthias Keicher, Ege Özsoy, Nassir Navab
P04-089	Recruiting the best teacher modality: A customized knowledge distillation method for IF based nephropathy diagnosis Ning Dai, Lai Jiang, Yibing Fu, Sai Pan, Mai Xu, Xin Deng, Pu Chen, Xiangmei Chen
P04-090	Representation, Alignment, Fusion: A Generic Transformer-based Framework for Multi-modal Glaucoma Recognition You Zhou, Gang Yang, Yang Zhou, Dayong Ding, Jianchun Zhao
P04-091	Reversing the Abnormal: Pseudo-Healthy Generative Networks for Anomaly Detection Cosmin I. Bercea, Benedikt Wiestler, Daniel Rueckert, Julia A. Schnabel
P04-092	Revisiting Feature Propagation and Aggregation in Polyp Segmentation Yanzhou Su, Yiqing Shen, Jin Ye, Junjun He, Jian Cheng
P04-093	Robust and Generalisable Segmentation of Subtle Epilepsy-causing Lesions: a Graph Convolutional Approach Hannah Spitzer, Mathilde Ripart, Abdulah Fawaz, Logan Z. J. Williams, MELD project, Emma C. Robinson, Juan Eugenio Iglesias, Sophie Adler, Konrad Wagstyl

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P04-094	Robust Exclusive Adaptive Sparse Feature Selection for Biomarker Discovery and Early Diagnosis of Neuropsychiatric Systemic Lupus Erythematosus Tianhong Quan, Ye Yuan, Yu Luo, Teng Zhou, Jing Qin
P04-095	SCOL: Supervised Contrastive Ordinal Loss for Abdominal Aortic Calcification Scoring on Vertebral Fracture Assessment Scans Afsah Saleem, Zaid Ilyas, David Suter, Ghulam Mubashar Hassan, Siobhan Reid, John T. Schousboe, Richard Prince, William D. Leslie, Joshua R. Lewis, Syed Zulqarnain Gilani
P04-096	Self- and Semi-Supervised Learning for Gastroscopic Lesion Detection Xuanye Zhang, Kaige Yin, Siqi Liu, Zhijie Feng, Xiaoguang Han, Guanbin Li, Xiang Wan
P04-097	Self-feedback Transformer: A Multi-label Diagnostic Model for Real-world Pancreatic Neuroendocrine Neoplasms Data Mingyu Wang, Yi Li, Bin Huang, Chenglang Yuan, Yangdi Wang, Yanji Luo, Bingsheng Huang
P04-098	Self-Supervised Polyp Re-Identification in Colonoscopy Yotam Intrator, Natalie Aizenberg, Amir Livne, Ehud Rivlin, Roman Goldenberg
P04-099	SHSRCNet: Super-resolution And Classification Network For Low-resolution Breast Cancer Histopathology Image Luyuan Xie, Cong Li, Zirui Wang, Xin Zhang, Boyan Chen, Qingni Shen, Zhonghai Wu
P04-100	STAR-Echo: A Novel Biomarker for Prognosis of MACE in Chronic Kidney Disease Patients using Spatiotemporal Analysis and Transformer-Based Radiomics Models. Rohan Dhamdhare, Gourav Modanwal, Mohamed H.E. Makhlouf, Neda Shafiabadi Hassani, Satvika Bharadwaj, Pingfu Fu, Ioannis Milioglou, Mahboob Rahman, Sadeer Al-Kindi, Anant Madabhushi
P04-101	TabAttention: Learning Attention Conditionally on Tabular Data Michał K. Grzeszczyk, Szymon Płotka, Beata Rebizant, Katarzyna Kosińska-Kaczyńska, Michał Lipa, Robert Brawura-Biskupski-Samaha, Przemysław Korzeniowski, Tomasz Trzcński, Arkadiusz Sitek
P04-102	TCEIP: Text Condition Embedded Regression Network for Dental Implant Position Prediction Xinquan Yang, Jinheng Xie, Xuguang Li, Xuechen Li, Xin Li, Linlin Shen, Yongqiang Deng
P04-103	Text-guided Foundation Model Adaptation for Pathological Image Classification Yunkun Zhang, Jin Gao, Mu Zhou, Xiaosong Wang, Yu Qiao, Shaoting Zhang, Dequan Wang
P04-104	Topology Repairing of Disconnected Pulmonary Airways and Vessels: Baselines and a Dataset Ziqiao Weng, Jiancheng Yang, Dongnan Liu, Weidong Cai
P04-105	Towards Generalizable Diabetic Retinopathy Grading in Unseen Domains Haoxuan Che, Yuhan Cheng, Haibo Jin, Hao Chen
P04-106	Towards Novel Class Discovery: A Study in Novel Skin Lesions Clustering Wei Feng, Lie Ju, Lin Wang, Kaimin Song, Zongyuan Ge
P04-107	Transformer-based end-to-end classification of variable-length volumetric data Marzieh Oghbaie, Teresa Araújo, Taha Emre, Ursula Schmidt-Erfurth, Hrvoje Bogunović

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P04-108	Transformer-based tooth segmentation, identification and pulp calcification recognition in CBCT Shangxuan Li, Chichi Li, Yu Du, Li Ye, Yanshu Fang, Cheng Wang, Wu Zhou
P04-109	Treatment Outcome Prediction for Intracerebral Hemorrhage via Generative Prognostic Model with Imaging and Tabular Data Wenao Ma, Cheng Chen, Jill Abrigo, Calvin Hoi-Kwan Mak, Yuqi Gong, Nga Yan Chan, Chu Han, Zaiyi Liu, Qi Dou
P04-110	Uncovering Heterogeneity in Alzheimer's Disease from Graphical Modeling of the Tau Spatiotemporal Topography Jiaxin Yue, Yonggang Shi
P04-111	Unsupervised classification of congenital inner ear malformations using DeepDiffusion for latent space representation Paula López Diez, Jan Margeta, Khassan Diab, François Patou, Rasmus R. Paulsen
P04-112	Utilizing Longitudinal Chest X-Rays and Reports to Pre-Fill Radiology Reports Qingqing Zhu, Tejas Sudharshan Mathai, Pritam Mukherjee, Yifan Peng, Ronald M. Summers, Zhiyong Lu
P04-113	VF-HM: Vision Loss Estimation using Fundus Photograph for High Myopia Zipei Yan, Dong Liang, Linchuan Xu, Jiahang Li, Zhengji Liu, Shuai Wang, Jiannong Cao, Chea-su Kee
P04-114	Vision Transformer based Multi-Class Lesion Detection in IVOCT Zixuan Wang, Yifan Shao, Jingyi Sun, Zhili Huang, Su Wang, Qiyong Li, Jinsong Li, Qian Yu
P04-115	Visual Grounding of Whole Radiology Reports for 3D CT Images Akimichi Ichinose, Taro Hatsutani, Keigo Nakamura, Yoshiro Kitamura, Satoshi Iizuka, Edgar Simo-Serra, Shoji Kido, Noriyuki Tomiyama
P04-116	Visual-Attribute Prompt Learning for Progressive Mild Cognitive Impairment Prediction Luoyao Kang, Haifan Gong, Xiang Wan, Haofeng Li
P04-117	Xplainer: From X-Ray Observations to Explainable Zero-Shot Diagnosis Chantal Pellegrini, Matthias Keicher, Ege Özsoy, Petra Jiraskova, Rickmer Braren, Nassir Navab
P04-118	YONA: You Only Need One Adjacent Reference-frame for Accurate and Fast Video Polyp Detection Yuncheng Jiang, Zixun Zhang, Ruimao Zhang, Guanbin Li, Shuguang Cui, Zhen Li
P04-119	You Don't Have to Be Perfect to Be Amazing: Unveil the Utility of Synthetic Images Xiaodan Xing, Federico Felder, Yang Nan, Giorgos Papanastasiou, Simon Walsh, Guang Yang

16:30 to 18:00

Oral 7: Computer Aided Diagnosis with Longitudinal and Multi-modal Data

Oral 8: Surgical Visualization and Data Science

<b>Oral 7: Computer Aided Diagnosis with Longitudinal and Multi-modal Data</b> <b>Tuesday, October 10, 16:30 to 18:00</b> <b>Exhibit Hall A – Main Hall</b>		<b>Oral 8: Surgical Visualization and Data Science</b> <b>Tuesday, October 10, 16:30 to 18:00</b> <b>Ballroom A – Parallel Hall</b>
16:30	Longitudinal Multimodal Transformer Integrating Imaging and Latent Clinical Signatures From Routine EHRs for Pulmonary Nodule Classification Speaker: Thomas Li, Vanderbilt University, USA	Self-supervised Sim-to-Real Kinematics Reconstruction for Video-based Assessment of Intraoperative Suturing Skills Speaker: Zijun Cui, University of Southern California, USA
16:45	Graph-theoretic automatic lesion tracking and detection of patterns of lesion changes in longitudinal CT studies Speaker: Leo Joskowicz, Hebrew University of Jerusalem, Israel	POV-Surgery: A Dataset for Egocentric Hand and Tool Pose Estimation During Surgical Activities Speaker: Rui Wang, ETH Zürich, Switzerland
17:00	Utilizing Longitudinal Chest X-Rays and Reports to Pre-Fill Radiology Reports Speaker: Qingqing Zhu, National Institutes of Health, USA	Intelligent Virtual B-scan Mirror (IVBM) Speaker: Michael Sommersperger, Technical University of Munich, Germany
17:15	Improving Outcome Prediction of Pulmonary Embolism by De-Biased Multi-Modality Model Speaker: Shreyas Kulkarni, Brown University, USA	EndoSurf: Neural Surface Reconstruction of Deformable Tissues with Stereo Endoscope Videos Speaker: Xuelian Cheng, Monash University, Australia
17:30	Contrastive Masked Image-Text Modeling for Medical Visual Representation Learning Speaker: Cheng Chen, Massachusetts General Hospital and Harvard Medical School, USA	Neural LerPlane Representations for Fast 4D Reconstruction of Deformable Tissues Speaker: Chen Yang, Shanghai Jiao Tong University, China
17:45	Multimodal Deep Fusion in Hyperbolic Space for Mild Cognitive Impairment Study Speaker: Dajiang Zhu, The University of Texas at Arlington, USA	ACT-Net: Anchor-context Action Detection in Surgery Videos Speaker: Luoying Hao, University of Birmingham, United Kingdom

## Wednesday, October 11

08:00 to 09:30

Oral 9: Segmentation – Methods and Applications

Oral 10: Clinical Translation II – CAI

<b>Oral-09: Segmentation – Methods and Applications</b> <b>Wednesday, October 11, 08:00 to 09:30</b> <b>Exhibit Hall A – Main Hall</b>		<b>Oral-10: Clinical Translation II – CAI</b> <b>Wednesday, October 11, 08:00 to 09:30</b> <b>Ballroom A – Parallel Hall</b>
08:00	SwinMM: Masked Multi-view with Swin Transformers for 3D Medical Image Segmentation Speaker: Yiqing Wang, Shanghai Jiao Tong University, China	Panel Discussion
08:15	MultiTalent: A Multi-Dataset Approach to Medical Image Segmentation Speaker: Constantin Ulrich, German Cancer Research Center, Germany	
08:30	Structure-Preserving Instance Segmentation via Skeleton-Aware Distance Transform Speaker: Donglai Wei, Boston College, USA	From Mesh Completion to AI Designed Crown Speaker: Golriz Hosseinimanesh, Polytechnique Montreal, Canada
08:45	Pelvic Fracture Segmentation Using a Multi-scale Distance-weighted Neural Network Speaker: Yanzhen Liu, Beihang University, China	Optical Ultrasound Imaging for Endovascular Repair of Abdominal Aortic Aneurysms: A Pilot Study Speaker: Adrien Desjardins, University College London, United Kingdom
09:00	Robust and Generalisable Segmentation of Subtle Epilepsy-causing Lesions: a Graph Convolutional Approach Speaker: Hannah Spitzer, LMU University Hospital, Germany	Estimated time to surgical procedure completion: An exploration of video analysis methods Speaker: Yariv Colbeci, Theator, Israel
09:15	CorSegRec: A Topology-Preserving Scheme for Extracting Fully-Connected Coronary Arteries from CT Angiography Speaker: Dinggang Shen, ShanghaiTech University & Shanghai United Imaging Intelligence Co., Ltd., China	Automatic Surgical Reconstruction for Orbital Blow-out Fracture via Symmetric Prior Anatomical Knowledge-Guided Adversarial Generative Network Speaker: Jiangchang Xu, Shanghai Jiao Tong University, China

<b>Poster 5: Image Segmentation</b>	
<b>Wednesday, October 11, 2023, 09:30 to 11:30</b>	
<b>Poster Hall</b>	
P05-001	3D Medical Image Segmentation with Sparse Annotation via Cross-Teaching between 3D and 2D Networks Heng Cai, Lei Qi, Qian Yu, Yinghuan Shi, Yang Gao
P05-002	3D Mitochondria Instance Segmentation with Spatio-Temporal Transformers Omkar Thawakar, Rao Muhammad Anwer, Jorma Laaksonen, Orly Reiner, Mubarak Shah, Fahad Shahbaz Khan
P05-003	A General Stitching Solution for Whole-Brain 3D Nuclei Instance Segmentation from Microscopy Images Ziquan Wei, Tingting Dan, Jiaqi Ding, Mustafa Dere, Guorong Wu
P05-004	A Sheaf Theoretic Perspective for Robust Prostate Segmentation Ainkaran Santhirasekaram, Karen Pinto, Mathias Winkler, Andrea Rockall, Ben Glocker
P05-005	A2Fseg: Adaptive Multi-Modal Fusion Network for Medical Image Segmentation Zirui Wang, Yi Hong
P05-006	ACC-UNet: A Completely Convolutional UNet model for the 2020s Nabil Ibtehaz, Daisuke Kihara
P05-007	ACTION++: Improving Semi-supervised Medical Image Segmentation with Adaptive Anatomical Contrast Chenyu You, Weicheng Dai, Yifei Min, Lawrence Staib, Jas Sekhon, James S. Duncan
P05-008	Adult-like Phase and Multi-scale Assistance for Isointense Infant Brain Tissue Segmentation Jiameng Liu, Feihong Liu, Kaicong Sun, Mianxin Liu, Yuhang Sun, Yuyan Ge, Dinggang Shen
P05-009	Anatomical-aware Point-Voxel Network for Couinaud Segmentation in Liver CT Xukun Zhang, Yang Liu, Sharib Ali, Xiao Zhao, Mingyang Sun, Minghao Han, Tao Liu, Peng Zhai, Zhiming Cui, Peixuan Zhang, Xiaoying Wang, Lihua Zhang
P05-010	Annotator Consensus Prediction for Medical Image Segmentation with Diffusion Models Tomer Amit, Shmuel Shichrur, Tal Shaharabany, Lior Wolf
P05-011	Anti-Adversarial Consistency Regularization for Data Augmentation: Applications to Robust Medical Image Segmentation Hyuna Cho, Yubin Han, Won Hwa Kim
P05-012	Ariadne's Thread: Using Text Prompts to Improve Segmentation of Infected Areas from Chest X-ray images Yi Zhong, Mengqiu Xu, Kongming Liang, Kaixin Chen, Ming Wu
P05-013	Automatic Segmentation of Internal Tooth Structure from CBCT Images using Hierarchical Deep Learning SaeHyun Kim, In-Seok Song, Seung Jun Baek
P05-014	BerDiff: Conditional Bernoulli Diffusion Model for Medical Image Segmentation Tao Chen, Chenhui Wang, Hongming Shan
P05-015	Boundary Difference Over Union Loss For Medical Image Segmentation Fan Sun, Zhiming Luo, Shaozi Li



## Poster 5: Image Segmentation

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### Poster Hall

P05-016	Breast Ultrasound Tumor Classification Using a Hybrid Multitask CNN-Transformer Network Bryar Shareef, Min Xian, Aleksandar Vakanski, Haotian Wang
P05-017	CAS-Net: Cross-view Aligned Segmentation by Graph Representation of Knees Zixu Zhuang, Xin Wang, Sheng Wang, Zhenrong Shen, Xiangyu Zhao, Mengjun Liu, Zhong Xue, Dinggang Shen, Lichi Zhang, Qian Wang
P05-018	Category-level Regularized Unlabeled-to-labeled Learning for Semi-supervised Prostate Segmentation with Multi-site Unlabeled Data Zhe Xu, Donghuan Lu, Jiangpeng Yan, Jinghan Sun, Jie Luo, Dong Wei, Sarah Frisken, Quanzheng Li, Yefeng Zheng, Raymond Kai-yu Tong
P05-019	Certification of Deep Learning Models for Medical Image Segmentation Othmane Laousy, Alexandre Araujo, Guillaume Chassagnon, Nikos Paragios, Marie-Pierre Revel, Maria Vakalopoulou
P05-020	Class-Aware Feature Alignment for Domain Adaptative Mitochondria Segmentation Dan Yin, Wei Huang, Zhiwei Xiong, Xuejin Chen
P05-021	Collaborative modality generation and tissue segmentation for early-developing macaque brain MR images Xueyang Wu, Tao Zhong, Shujun Liang, Li Wang, Gang Li, Yu Zhang
P05-022	Conditional Diffusion Models for Weakly Supervised Medical Image Segmentation Xinrong Hu, Yu-Jen Chen, Tsung-Yi Ho, Yiyu Shi
P05-023	Conditional Temporal Attention Networks for Neonatal Cortical Surface Reconstruction Qiang Ma, Liu Li, Vanessa Kyriakopoulou, Joseph V. Hajnal, Emma C. Robinson, Bernhard Kainz, Daniel Rueckert
P05-024	Consistency-guided Meta-Learning for Bootstrapping Semi-Supervised Medical Image Segmentation Qingyue Wei, Lequan Yu, Xianhang Li, Wei Shao, Cihang Xie, Lei Xing, Yuyin Zhou
P05-025	ConvFormer: Plug-and-Play CNN-Style Transformers for Improving Medical Image Segmentation Xian Lin, Zengqiang Yan, Xianbo Deng, Chuansheng Zheng, Li Yu
P05-026	CorSegRec: A Topology-Preserving Scheme for Extracting Fully-Connected Coronary Arteries from CT Angiography Yuehui Qiu, Zihan Li, Yining Wang, Pei Dong, Dijia Wu, Xinnian Yang, Qingqi Hong, Dinggang Shen
P05-027	DARC: Distribution-Aware Re-Coloring Model for Generalizable Nucleus Segmentation Shengcong Chen, Changxing Ding, Dacheng Tao, Hao Chen
P05-028	DAST: Differentiable Architecture Search with Transformer for 3D Medical Image Segmentation Dong Yang, Ziyue Xu, Yufan He, Vishwesh Nath, Wenqi Li, Andriy Myronenko, Ali Hatamizadeh, Can Zhao, Holger R. Roth, Daguang Xu
P05-029	DBTrans: A Dual-Branch Vision Transformer for Multi-modal Brain Tumor Segmentation Xinyi Zeng, Pinxian Zeng, Cheng Tang, Peng Wang, Binyu Yan, Yan Wang
P05-030	DCAug: Domain-aware & Content-consistent Cross-cycle Framework for Tumor Augmentation Qikui Zhu, Lei Yin, Qian Tang, Yanqing Wang, Yanxiang Cheng, Shuo Li
P05-031	Deep Mutual Distillation for Semi-Supervised Medical Image Segmentation Yushan Xie, Yuejia Yin, Qingli Li, Yan Wang
P05-032	Deep probability contour framework for tumour segmentation and dose painting in PET images Wenhui Zhang, Surajit Ray

## Poster 5: Image Segmentation

Wednesday, October 11, 2023, 09:30 to 11:30

### Poster Hall

P05-033	Devil is in Channels: Contrastive Single Domain Generalization for Medical Image Segmentation Shishuai Hu, Zehui Liao, Yong Xia
P05-034	DHC: Dual-debiased Heterogeneous Co-training Framework for Class-imbalanced Semi-supervised Medical Image Segmentation Haonan Wang, Xiaomeng Li
P05-035	Dice Semimetric Losses: Optimizing the Dice Score with Soft Labels Zifu Wang, Teodora Popordanoska, Jeroen Bertels, Robin Lemmens, Matthew B. Blaschko
P05-036	Diffusion Kinetic Model for Breast Cancer Segmentation in Incomplete DCE-MRI Tianxu Lv, Yuan Liu, Kai Miao, Lihua Li, Xiang Pan
P05-037	Diffusion Transformer U-Net for Medical Image Segmentation G. Jignesh Chowdary, Zhaozheng Yin
P05-038	Do we really need that skip-connection? Understanding its interplay with task complexity Amith Kamath, Jonas Willmann, Nicolaus Andratschke, Mauricio Reyes
P05-039	DOMINO++: Domain-aware Loss Regularization for Deep Learning Generalizability Skylar E. Stolte, Kyle Volle, Aprinda Indahlastari, Alejandro Albizu, Adam J. Woods, Kevin Brink, Matthew Hale, Ruogu Fang
P05-040	Dose Guidance for Radiotherapy-oriented Deep Learning Segmentation Elias Rüfenacht, Robert Poel, Amith Kamath, Ekin Ermis, Stefan Scheib, Michael K. Fix, Mauricio Reyes
P05-041	EchoGLAD: Hierarchical Graph Neural Networks for Left Ventricle Landmark Detection on Echocardiograms Masoud Mokhtari, Mobina Mahdavi, Hooman Vaseli, Christina Luong, Purang Abolmaesumi, Teresa S. M. Tsang, Renjie Liao
P05-042	Edge-aware Multi-task Network for Integrating Quantification Segmentation and Uncertainty Prediction of Liver Tumor on Multi-modality Non-contrast MRI Xiaojiao Xiao, Qinmin Vivian Hu, Guanghui Wang
P05-043	EdgeMixup: Embarrassingly Simple Data Alteration to Improve Lyme Disease Lesion Segmentation and Diagnosis Fairness Haolin Yuan, John Aucott, Armin Hadzic, William Paul, Marcia Villegas de Flores, Philip Mathew, Philippe Burlina, Yinzhi Cao
P05-044	EGE-UNet: an Efficient Group Enhanced UNet for skin lesion segmentation Jiacheng Ruan, Mingye Xie, Jingsheng Gao, Ting Liu, Yuzhuo Fu
P05-045	Elongated Physiological Structure Segmentation via Spatial and Scale Uncertainty-aware Network Yinglin Zhang, Ruiling Xi, Huazhu Fu, Dave Towey, RuiBin Bai, Risa Higashita, Jiang Liu
P05-046	EoFormer: Edge-oriented Transformer for Brain Tumor Segmentation Dong She, Yueyi Zhang, Zheyu Zhang, Hebei Li, Zihan Yan, Xiaoyan Sun
P05-047	Evolutionary normalization optimization boosts semantic segmentation network performance Luisa Neubig, Andreas M. Kist
P05-048	Factor Space and Spectrum for Medical Hyperspectral Image Segmentation Boxiang Yun, Qingli Li, Lubov Mitrofanova, Chunhua Zhou, Yan Wang

**Poster 5: Image Segmentation****Wednesday, October 11, 2023, 09:30 to 11:30****Poster Hall**

P05-049	FEDD - Fair, Efficient, and Diverse Diffusion-based Lesion Segmentation and Malignancy Classification Héctor Carrión, Narges Norouzi
P05-050	Few-Shot Medical Image Segmentation via a Region-enhanced Prototypical Transformer Yazhou Zhu, Shidong Wang, Tong Xin, Haofeng Zhang
P05-051	Fine-grained Hand Bone Segmentation via Adaptive Multi-dimensional Convolutional Network and Anatomy-constraint Loss Bolun Zeng, Li Chen, Yuanyi Zheng, Ron Kikinis, Xiaojun Chen
P05-052	FocalUNETR: A Focal Transformer for Boundary-aware Prostate Segmentation using CT Images Chengyin Li, Yao Qiang, Rafi Ibn Sultan, Hassan Bagher-Ebadian, Prashant Khanduri, Indrin J. Chetty, Dongxiao Zhu
P05-053	Frequency-mixed Single-source Domain Generalization for Medical Image Segmentation Heng Li, Haojin Li, Wei Zhao, Huazhu Fu, Xiuyun Su, Yan Hu, Jiang Liu
P05-054	From Sparse to Precise: A Practical Editing Approach for Intracardiac Echocardiography Segmentation Ahmed H. Shahin, Yan Zhuang, Noha El-Zehiry
P05-055	Guiding the Guidance: A Comparative Analysis of User Guidance Signals for Interactive Segmentation of Volumetric Images Zdravko Marinov, Rainer Stiefelhagen, Jens Kleesiek
P05-056	HartleyMHA: Self-Attention in Frequency Domain for Resolution-Robust and Parameter-Efficient 3D Image Segmentation Ken C. L. Wong, Hongzhi Wang, Tanveer Syeda-Mahmood
P05-057	H-DenseFormer: An Efficient Hybrid Densely Connected Transformer for Multimodal Tumor Segmentation Jun Shi, Hongyu Kan, Shulan Ruan, Ziqi Zhu, Minfan Zhao, Liang Qiao, Zhaohui Wang, Hong An, Xudong Xue
P05-058	HENet: Hierarchical Enhancement Network for Pulmonary Vessel Segmentation in Non-contrast CT Images Wenqi Zhou, Xiao Zhang, Dongdong Gu, Sheng Wang, Jiayu Huo, Rui Zhang, Zhihao Jiang, Feng Shi, Zhong Xue, Yiqiang Zhan, Xi Ouyang, Dinggang Shen
P05-059	High-Resolution Cranial Defect Reconstruction by Iterative, Low-Resolution, Point Cloud Completion Transformers Marek Wodzinski, Mateusz Daniol, Daria Hemmerling, Mirosław Socha
P05-060	Implicit Anatomical Rendering for Medical Image Segmentation with Stochastic Experts Chenyu You, Weicheng Dai, Yifei Min, Lawrence Staib, James S. Duncan
P05-061	Instructive Feature Enhancement for Dichotomous Medical Image Segmentation Lian Liu, Han Zhou, Jiongquan Chen, Sijing Liu, Wenlong Shi, Dong Ni, Deng-Ping Fan, Xin Yang
P05-062	Ischemic stroke segmentation from a cross-domain representation in multimodal diffusion studies Santiago Gómez, Daniel Mantilla, Brayan Valenzuela, Andrés Ortiz, Daniela D Vera, Paul Camacho, Fabio Martínez
P05-063	Joint Dense-Point Representation for Contour-Aware Graph Segmentation Kit Mills Bransby, Greg Slabaugh, Christos Bourantas, Qianni Zhang
P05-064	Joint Segmentation and Sub-Pixel Localization in Structured Light Laryngoscopy Jann-Ole Henningson, Marion Semmler, Michael Döllinger, Marc Stamminger

## Poster 5: Image Segmentation

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P05-065	Label-Free Nuclei Segmentation Using Intra-Image Self Similarity Long Chen, Han Li, S. Kevin Zhou
P05-066	Laplacian-Former: Overcoming the Limitations of Vision Transformers in Local Texture Detection Reza Azad, Amirhossein Kazerooni, Babak Azad, Ehsan Khodapanah Aghdam, Yury Velichko, Ulas Bagci, Dorit Merhof
P05-067	Learnable Cross-modal Knowledge Distillation for Multi-modal Learning with Missing Modality Hu Wang, Congbo Ma, Jianpeng Zhang, Yuan Zhang, Jodie Avery, Louise Hull, Gustavo Carneiro
P05-068	Learnable Query Initialization for Surgical Instrument Instance Segmentation Rohan Raju Dhanakshirur, K. N. Ajay Shastri, Kaustubh Borgavi, Ashish Suri, Prem Kumar Kalra, Chetan Arora
P05-069	Learning Ontology-based Hierarchical Structural Relationship for Whole Brain Segmentation Junyan Lyu, Pengxiao Xu, Fatima Nasrallah, Xiaoying Tang
P05-070	Learning Reliability of Multi-Modality Medical Images for Tumor Segmentation via Evidence-Identified Denoising Diffusion Probabilistic Models Jianfeng Zhao, Shuo Li
P05-071	MDViT: Multi-domain Vision Transformer for Small Medical Image Segmentation Datasets Siyi Du, Nourhan Bayasi, Ghassan Hamarneh, Rafeef Garbi
P05-072	Medical Boundary Diffusion Model for Skin Lesion Segmentation Jiacheng Wang, Jing Yang, Qichao Zhou, Liansheng Wang
P05-073	MedNeXt: Transformer-driven Scaling of ConvNets for Medical Image Segmentation Saikat Roy, Gregor Koehler, Constantin Ulrich, Michael Baumgartner, Jens Petersen, Fabian Isensee, Paul F. Jäger, Klaus H. Maier-Hein
P05-074	Memory Replay for Continual Medical Image Segmentation through Atypical Sample Selection Sutanu Bera, Vinay Ummadi, Debashis Sen, Subhamoy Mandal, Prabir Kumar Biswas
P05-075	M-GenSeg: Domain Adaptation For Target Modality Tumor Segmentation With Annotation-Efficient Supervision Malo Alefsen, Eugene Vorontsov, Samuel Kadoury
P05-076	Minimal-supervised Medical Image Segmentation via Vector Quantization Memory Yanyu Xu, Menghan Zhou, Yangqin Feng, Xinxing Xu, Huazhu Fu, Rick Siow Mong Goh, Yong Liu
P05-077	MI-SegNet: Mutual Information-Based US Segmentation for Unseen Domain Generalization Yuan Bi, Zhongliang Jiang, Ricarda Clarenbach, Reza Ghotbi, Angelos Karlas, Nassir Navab
P05-078	Morphology-inspired Unsupervised Gland Segmentation via Selective Semantic Grouping Qixiang Zhang, Yi Li, Cheng Xue, Xiaomeng Li
P05-079	Multimodal CT and MR Segmentation of Head and Neck Organs-at-Risk Gašper Podobnik, Primož Strojanič, Primož Peterlin, Bulat Ibragimov, Tomaž Vrtovec
P05-080	Multi-shot Prototype Contrastive Learning and Semantic Reasoning for Medical Image Segmentation Yuhui Song, Xiuquan Du, Yanping Zhang, Chenchu Xu
P05-081	MultiTalent: A Multi-Dataset Approach to Medical Image Segmentation Constantin Ulrich, Fabian Isensee, Tassilo Wald, Maximilian Zenk, Michael Baumgartner, Klaus H. Maier-Hein

## Poster 5: Image Segmentation

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P05-082	NISF: Neural Implicit Segmentation Functions Nil Stolt-Ansó, Julian McGinnis, Jiazhen Pan, Kerstin Hammernik, Daniel Rueckert
P05-083	One-Shot Traumatic Brain Segmentation with Adversarial Training and Uncertainty Rectification Xiangyu Zhao, Zhenrong Shen, Dongdong Chen, Sheng Wang, Zixu Zhuang, Qian Wang, Lichi Zhang
P05-084	Pelvic Fracture Segmentation Using a Multi-scale Distance-weighted Neural Network Yanzhen Liu, Sutuke Yibulayimu, Yudi Sang, Gang Zhu, Yu Wang, Chunpeng Zhao, Xinbao Wu
P05-085	Pick and Trace: Instance Segmentation for Filamentous Objects with a Recurrent Neural Network Yi Liu, Su Peng, Jeffrey Caplan, Chandra Kambhmettu
P05-086	Pre-operative Survival Prediction of Diffuse Glioma Patients with Joint Tumor Subtyping Zhenyu Tang, Zhenyu Zhang, Huabing Liu, Dong Nie, Jing Yan
P05-087	Punctate White Matter Lesion Segmentation in Preterm Infants Powered by Counterfactually Generative Learning Zehua Ren, Yongheng Sun, Miaomiao Wang, Yuying Feng, Xianjun Li, Chao Jin, Jian Yang, Chunfeng Lian, Fan Wang
P05-088	QCResUNet: Joint Subject-level and Voxel-level Prediction of Segmentation Quality Peijie Qiu, Satrajit Chakrabarty, Phuc Nguyen, Soumyendu Sekhar Ghosh, Aristeidis Sotiras
P05-089	RBGNet: Reliable Boundary-Guided Segmentation of Choroidal Neovascularization Tao Chen, Yitian Zhao, Lei Mou, Dan Zhang, Xiayu Xu, Mengting Liu, Huazhu Fu, Jiong Zhang
P05-090	RCS-YOLO: A Fast and High-Accuracy Object Detector for Brain Tumor Detection Ming Kang, Chee-Ming Ting, Fung Fung Ting, Raphaël C.W. Phan
P05-091	Robust Segmentation via Topology Violation Detection and Feature Synthesis Liu Li, Qiang Ma, Cheng Ouyang, Zeju Li, Qingjie Meng, Weitong Zhang, Mengyun Qiao, Vanessa Kyriakopoulou, Joseph V. Hajnal, Daniel Rueckert, Bernhard Kainz
P05-092	Robust T-Loss for Medical Image Segmentation Alvaro Gonzalez-Jimenez, Simone Lionetti, Philippe Gottfrois, Fabian Gröger, Marc Pouly, Alexander A. Navarini
P05-093	Scale-aware Test-time Click Adaptation for Pulmonary Nodule and Mass Segmentation Zhihao Li, Jiancheng Yang, Yongchao Xu, Li Zhang, Wenhui Dong, Bo Du
P05-094	Scaling Up 3D Kernels with Bayesian Frequency Re-Parameterization for Medical Image Segmentation Ho Hin Lee, Quan Liu, Shunxing Bao, Qi Yang, Xin Yu, Leon Y. Cai, Thomas Z. Li, Yuankai Huo, Xenofon Koutsoukos, Bennett A. Landman
P05-095	SegNetr: Rethinking the local-global interactions and skip connections in U-shaped networks Junlong Cheng, Chengrui Gao, Fengjie Wang, Min Zhu
P05-096	Self-adaptive Adversarial Training for Robust Medical Segmentation Fu Wang, Zeyu Fu, Yanghao Zhang, Wenjie Ruan
P05-097	Self-supervised learning via inter-modal reconstruction and feature projection networks for label-efficient 3D-to-2D segmentation José Morano, Guilherme Aresta, Dmitrii Lachinov, Julia Mai, Ursula Schmidt-Erfurth, Hrvoje Bogunović

## Poster 5: Image Segmentation

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P05-098	Semi-supervised Class Imbalanced Deep Learning for Cardiac MRI Segmentation Yuchen Yuan, Xi Wang, Xikai Yang, Ruijiang Li, Pheng-Ann Heng
P05-099	Semi-supervised Domain Adaptive Medical Image Segmentation through Consistency Regularized Disentangled Contrastive Learning Hritam Basak, Zhaozheng Yin
P05-100	Shape-Aware 3D Small Vessel Segmentation with Local Contrast Guided Attention Zhiwei Deng, Songnan Xu, Jianwei Zhang, Jiong Zhang, Danny J. Wang, Lirong Yan, Yonggang Shi
P05-101	Shifting More Attention to Breast Lesion Segmentation in Ultrasound Videos Junhao Lin, Qian Dai, Lei Zhu, Huazhu Fu, Qiong Wang, Weibin Li, Wenhao Rao, Xiaoyang Huang, Liansheng Wang
P05-102	SimPLe: Similarity-Aware Propagation Learning for Weakly-Supervised Breast Cancer Segmentation in DCE-MRI Yuming Zhong, Yi Wang
P05-103	Structure-decoupled Adaptive Part Alignment Network for Domain Adaptive Mitochondria Segmentation Rui Sun, Huayu Mai, Naisong Luo, Tianzhu Zhang, Zhiwei Xiong, Feng Wu
P05-104	Structure-Preserving Instance Segmentation via Skeleton-Aware Distance Transform Zudi Lin, Donglai Wei, Aarush Gupta, Xingyu Liu, Deqing Sun, Hanspeter Pfister
P05-105	SwinMM: Masked Multi-view with Swin Transformers for 3D Medical Image Segmentation Yiqing Wang, Zihan Li, Jieru Mei, Zihao Wei, Li Liu, Chen Wang, Shengtian Sang, Alan L. Yuille, Cihang Xie, Yuyin Zhou
P05-106	SwinUNETR-V2: Stronger Swin Transformers with Stagewise Convolutions for 3D Medical Image Segmentation Yufan He, Vishwesh Nath, Dong Yang, Yucheng Tang, Andriy Myronenko, Daguang Xu
P05-107	SwiPE: Efficient and Robust Medical Image Segmentation with Implicit Patch Embeddings Yeja Zhang, Pengfei Gu, Nishchal Sapkota, Danny Z. Chen
P05-108	Text-Guided Cross-Position Attention for Segmentation: Case of Medical Image Go-Eun Lee, Seon Ho Kim, Jungchan Cho, Sang Tae Choi, Sang-Il Choi
P05-109	Transformer-based Annotation Bias-aware Medical Image Segmentation Zehui Liao, Shishuai Hu, Yutong Xie, Yong Xia
P05-110	TransNuSeg: A Lightweight Multi-Task Transformer for Nuclei Segmentation Zhenqi He, Mathias Unberath, Jing Ke, Yiqing Shen
P05-111	Treasure in Distribution: A Domain Randomization based Multi-Source Domain Generalization for 2D Medical Image Segmentation Ziyang Chen, Yongsheng Pan, Yiwen Ye, Hengfei Cui, Yong Xia
P05-112	Trust your neighbours: Penalty-based constraints for model calibration Balamurali Murugesan, Sukesh Adiga Vasudeva, Bingyuan Liu, Herve Lombaert, Ismail Ben Ayed, Jose Dolz
P05-113	TSegFormer: 3D Tooth Segmentation in Intraoral Scans with Geometry Guided Transformer Huimin Xiong, Kunle Li, Kaiyuan Tan, Yang Feng, Joey Tianyi Zhou, Jin Hao, Haochao Ying, Jian Wu, Zuozhu Liu
P05-114	Uncertainty and Shape-Aware Continual Test-Time Adaptation for Cross-Domain Segmentation of Medical Images Jiayi Zhu, Bart Bolsterlee, Brian V. Y. Chow, Yang Song, Erik Meijering

## Poster 5: Image Segmentation

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### Poster Hall

P05-115	Uncertainty-informed Mutual Learning for Joint Medical Image Classification and Segmentation Kai Ren, Ke Zou, Xianjie Liu, Yidi Chen, Xuedong Yuan, Xiaojing Shen, Meng Wang, Huazhu Fu
P05-116	UniSeg: A Prompt-driven Universal Segmentation Model as well as A Strong Representation Learner Yiwen Ye, Yutong Xie, Jianpeng Zhang, Ziyang Chen, Yong Xia
P05-117	Unpaired Cross-modal Interaction Learning for COVID-19 Segmentation on Limited CT images Qingbiao Guan, Yutong Xie, Bing Yang, Jianpeng Zhang, Zhibin Liao, Qi Wu, Yong Xia
P05-118	UPCoL: Uncertainty-informed Prototype Consistency Learning for Semi-supervised Medical Image Segmentation Wenjing Lu, Jiahao Lei, Peng Qiu, Rui Sheng, Jinhua Zhou, Xinwu Lu, Yang Yang
P05-119	Wall thickness estimation from short axis ultrasound images via temporal compatible deformation learning Ang Zhang, Guijuan Peng, Jialan Zheng, Jun Cheng, Xiaohua Liu, Qian Liu, Yuanyuan Sheng, Yingqi Zheng, Yumei Yang, Jie Deng, Yingying Liu, Wufeng Xue, Dong Ni
P05-120	WeakPolyp: You Only Look Bounding Box for Polyp Segmentation Jun Wei, Yiwen Hu, Shuguang Cui, S. Kevin Zhou, Zhen Li

13:00 to 14:30

Oral 11: Machine Learning III – Advances in Learning Strategies

Oral 12: Physics-based Image Formation and Reconstruction

<b>Oral-11: Machine Learning III – Advances in Learning Strategies</b>		<b>Oral-12: Physics-based Image Formation and Reconstruction</b>	
<b>Wednesday, October 11, 13:00 to 14:30</b>		<b>Wednesday, October 11, 13:00 to 14:30</b>	
<b>Exhibit Hall A – Main Hall</b>		<b>Ballroom A – Parallel Hall</b>	
13:00	Uncertainty and Shape-Aware Continual Test-Time Adaptation for Cross-Domain Segmentation of Medical Images Speaker: Jiayi Zhu, University of New South Wales, Australia		Learned Alternating Minimization Algorithm for Dual-Domain Sparse-View CT Reconstruction Speaker: Chi Ding, University of Florida, USA
13:15	Open-Ended Medical Visual Question Answering Through Prefix Tuning of Language Models Speaker: Tom van Sonsbeek, University of Amsterdam, the Netherlands		Inter-slice Consistency for Unpaired Low-Dose CT Denoising using Boosted Contrastive Learning Speaker: Jie Jing, Sichuan University, China
13:30	Joint prediction of response to therapy, molecular traits, and spatial organisation in colorectal cancer biopsies Speaker: Ruby Wood, University of Oxford, United Kingdom		LLCaps: Learning to Illuminate Low-Light Capsule Endoscopy with Curved Wavelet Attention and Reverse Diffusion Speaker: Long Bai, The Chinese University of Hong Kong, Hong Kong SAR, China
13:45	Speech Audio Synthesis from Tagged MRI and Non-Negative Matrix Factorization via Plastic Transformer Speaker: Xiaofeng Liu, Harvard Medical School, USA		Physics-Informed Neural Networks for Tissue Elasticity Reconstruction in Magnetic Resonance Elastography Speaker: Matthew Ragoza, University of Pittsburgh, USA
14:00	Deployment of Image Analysis Algorithms under Prevalence Shifts Speaker: Piotr Kalinowski, German Cancer Research Center (DKFZ), Germany		BigFUSE: Global Context-Aware Image Fusion in Dual-View Light-Sheet Fluorescence Microscopy with Image Formation Prior Speaker: Yu Liu, Technical University of Munich, Germany
14:15	ProtoASNet: Dynamic Prototypes for Inherently Interpretable and Uncertainty-Aware Aortic Stenosis Classification in Echocardiography Speaker: Hooman Vaseli, University of British Columbia, Canada		Physics-based Decoding Improves Magnetic Resonance Fingerprinting Speaker: Pingfan Song, University of Cambridge, United Kingdom



<b>Poster 6: Image Reconstruction and Registration</b> <b>Wednesday, October 11, 2023, 14:30 to 16:00</b> <b>Poster Hall</b>	
P06-001	3D Teeth Reconstruction from Panoramic Radiographs using Neural Implicit Functions Sihwa Park, Seongjun Kim, In-Seok Song, Seung Jun Baek
P06-002	A denoised Mean Teacher for domain adaptive point cloud registration Alexander Bigalke, Mattias P. Heinrich
P06-003	A Semantic-guided and Knowledge-based Generative Framework for Orthodontic Visual Outcome Preview Yizhou Chen, Xiaojun Chen
P06-004	Accurate multi-contrast MRI super-resolution via a dual cross-attention transformer network Shoujin Huang, Jingyu Li, Lifeng Mei, Tan Zhang, Ziran Chen, Yu Dong, Linzheng Dong, Shaojun Liu, Mengye Lyu
P06-005	Adaptive Supervised PatchNCE Loss for Learning H&E-to-IHC Stain Translation with Inconsistent Groundtruth Image Pairs Fangda Li, Zhiqiang Hu, Wen Chen, Avinash Kak
P06-006	Alias-Free Co-Modulated Network for Cross-Modality Synthesis and Super-Resolution of MR Images Zhiyun Song, Xin Wang, Xiangyu Zhao, Sheng Wang, Zhenrong Shen, Zixu Zhuang, Mengjun Liu, Qian Wang, Lichi Zhang
P06-007	An automated pipeline for quantitative T2* fetal body MRI and segmentation at low field Kelly Payette, Alena Uus, Jordina Aviles Verdera, Carla Avena Zampieri, Megan Hall, Lisa Story, Maria Deprez, Mary A. Rutherford, Joseph V. Hajnal, Sebastien Ourselin, Raphael Tomi-Tricot, Jana Hutter
P06-008	An Explainable Deep Framework: Towards Task-Specific Fusion for Multi-to-One MRI Synthesis Luyi Han, Tianyu Zhang, Yunzhi Huang, Haoran Dou, Xin Wang, Yuan Gao, Chunyao Lu, Tao Tan, Ritse Mann
P06-009	An Unsupervised Multispectral Image Registration Network for Skin Diseases Songhui Diao, Wenxue Zhou, Chenchen Qin, Jun Liao, Junzhou Huang, Wenming Yang, Jianhua Yao
P06-010	AngioMoCo: Learning-based Motion Correction in Cerebral Digital Subtraction Angiography Ruisheng Su, Matthijs van der Sluijs, Sandra Cornelissen, Wim van Zwam, Aad van der Lugt, Wiro Niessen, Danny Ruijters, Theo van Walsum, Adrian Dalca
P06-011	ASCON: Anatomy-aware Supervised Contrastive Learning Framework for Low-dose CT Denoising Zhihao Chen, Qi Gao, Yi Zhang, Hongming Shan
P06-012	BigFUSE: Global Context-Aware Image Fusion in Dual-View Light-Sheet Fluorescence Microscopy with Image Formation Prior Yu Liu, Gesine Müller, Nassir Navab, Carsten Marr, Jan Huisken, Tingying Peng
P06-013	Building A Bridge: Close The Domain Gap in CT Metal Artifact Reduction Tao Wang, Hui Yu, Yan Liu, Huaiqiang Sun, Yi Zhang
P06-014	CDiffMR: Can We Replace the Gaussian Noise with K-Space Undersampling for Fast MRI? Jiahao Huang, Angelica I. Aviles-Rivero, Carola-Bibiane Schönlieb, Guang Yang
P06-015	CoLa-Diff: Conditional Latent Diffusion Model for Multi-Modal MRI Synthesis Lan Jiang, Ye Mao, Xiangfeng Wang, Xi Chen, Chao Li

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P06-017	Computationally Efficient 3D MRI Reconstruction with Adaptive MLP Eric Z. Chen, Chi Zhang, Xiao Chen, Yikang Liu, Terrence Chen, Shanhui Sun
P06-018	Content-Preserving Diffusion Model for Unsupervised AS-OCT image Despeckling Sanqian Li, Risa Higashita, Huazhu Fu, Heng Li, Jingxuan Niu, Jiang Liu
P06-019	Contrastive Diffusion Model with Auxiliary Guidance for Coarse-to-Fine PET Reconstruction Zeyu Han, Yuhan Wang, Luping Zhou, Peng Wang, Binyu Yan, Jiliu Zhou, Yan Wang, Dinggang Shen
P06-020	CortexMorph: fast cortical thickness estimation via diffeomorphic registration using VoxelMorph Richard McKinley, Christian Rummel
P06-021	CT Kernel Conversion Using Multi-Domain Image-to-Image Translation with Generator-Guided Contrastive Learning Changyong Choi, Jiheon Jeong, Sangyoon Lee, Sang Min Lee, Namkug Kim
P06-022	CTFlow: Mitigating Effects of Computed Tomography Acquisition and Reconstruction with Normalizing Flows Leihao Wei, Anil Yadav, William Hsu
P06-023	CycleSTTN: A Learning-Based Temporal Model for Specular Augmentation in Endoscopy Rema Daher, O. León Barbed, Ana C. Murillo, Francisco Vasconcelos, Danail Stoyanov
P06-024	Dense Transformer based Enhanced Coding Network for Unsupervised Metal Artifact Reduction Wangduo Xie, Matthew B. Blaschko
P06-025	Differentiable Beamforming for Ultrasound Autofocusing Walter Simson, Louise Zhuang, Sergio J. Sanabria, Neha Antil, Jeremy J. Dahl, Dongwoon Hyun
P06-026	DiffuseIR: Diffusion Models For Isotropic Reconstruction of 3D Microscopic Images Mingjie Pan, Yulu Gan, Fangxu Zhou, Jiaming Liu, Ying Zhang, Aimin Wang, Shanghang Zhang, Dawei Li
P06-027	DISA: Differentiable Similarity Approximation for Universal Multimodal Registration Matteo Ronchetti, Wolfgang Wein, Nassir Navab, Oliver Zettinig, Raphael Prevost
P06-028	DisAsymNet: Disentanglement of Asymmetrical Abnormality on Bilateral Mammograms using Self-adversarial Learning Xin Wang, Tao Tan, Yuan Gao, Luyi Han, Tianyu Zhang, Chunyao Lu, Regina Beets-Tan, Ruisheng Su, Ritse Mann
P06-029	DisC-Diff: Disentangled Conditional Diffusion Model for Multi-Contrast MRI Super-Resolution Ye Mao, Lan Jiang, Xi Chen, Chao Li
P06-030	DMCVR: Morphology-Guided Diffusion Model for 3D Cardiac Volume Reconstruction Xiaoxiao He, Chaowei Tan, Ligong Han, Bo Liu, Leon Axel, Kang Li, Dimitris N. Metaxas
P06-031	DRMC: A Generalist Model with Dynamic Routing for Multi-Center PET Image Synthesis Zhiwen Yang, Yang Zhou, Hui Zhang, Bingzheng Wei, Yubo Fan, Yan Xu
P06-032	Dual Arbitrary Scale Super-Resolution for Multi-Contrast MRI Jiamiao Zhang, Yichen Chi, Jun Lyu, Wenming Yang, Yapeng Tian

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P06-033	Dual Domain Motion Artifacts Correction for MR Imaging Under Guidance of K-space Uncertainty Jiazhen Wang, Yizhe Yang, Yan Yang, Jian Sun
P06-034	DULDA: Dual-domain Unsupervised Learned Descent Algorithm for PET image reconstruction Rui Hu, Yunmei Chen, Kyungsang Kim, Marcio Aloisio Bezerra Cavalcanti Rockenbach, Quanzheng Li, Huafeng Liu
P06-035	Estimation of 3T MR images from 1.5T images regularized with Physics based Constraint Prabhjot Kaur, Atul Singh Minhas, Chirag Kamal Ahuja, Anil Kumar Sao
P06-036	Fast Reconstruction for Deep Learning PET Head Motion Correction Tianyi Zeng, Jiazhen Zhang, Eléonore V. Lieffrig, Zhuotong Cai, Fuyao Chen, Chenyu You, Mika Naganawa, Yihuan Lu, John A. Onofrey
P06-037	Feature-Conditioned Cascaded Video Diffusion Models for Precise Echocardiogram Synthesis Hadrien Reynaud, Mengyun Qiao, Mischa Dombrowski, Thomas Day, Reza Razavi, Alberto Gomez, Paul Leeson, Bernhard Kainz
P06-038	FreeSeed: Frequency-band-aware and Self-guided Network for Sparse-view CT Reconstruction Chenglong Ma, Zilong Li, Junping Zhang, Yi Zhang, Hongming Shan
P06-039	FSDiffReg: Feature-wise and Score-wise Diffusion-guided Unsupervised Deformable Image Registration for Cardiac Images Yi Qin, Xiaomeng Li
P06-040	Generating High-Resolution 3D CT with 12-bit Depth using a Diffusion Model with Adjacent Slice and Intensity Calibration Network Jiheon Jeong, Ki Duk Kim, Yujin Nam, Kyungjin Cho, Jiseon Kang, Gil-Sun Hong, Namkug Kim
P06-041	Generating Realistic Brain MRIs via a Conditional Diffusion Probabilistic Model Wei Peng, Ehsan Adeli, Tomas Bosschieter, Sang Hyun Park, Qingyu Zhao, Kilian M. Pohl
P06-042	Global k-Space Interpolation for Dynamic MRI Reconstruction using Masked Image Modeling Jiazhen Pan, Suprosanna Shit, Özgün Turgut, Wenqi Huang, Hongwei Bran Li, Nil Stolt-Ansó, Thomas Küstner, Kerstin Hammernik, Daniel Rueckert
P06-043	GSMorph: Gradient Surgery for cine-MRI Cardiac Deformable Registration Haoran Dou, Ning Bi, Luyi Han, Yuhao Huang, Ritse Mann, Xin Yang, Dong Ni, Nishant Ravikumar, Alejandro F. Frangi, Yunzhi Huang
P06-044	H2GM: A Hierarchical Hypergraph Matching Framework for Brain Landmark Alignment Zhibin He, Wuyang Li, Tuo Zhang, Yixuan Yuan
P06-045	Implicit neural representations for joint decomposition and registration of gene expression images in the marmoset brain Michal Byra, Charissa Poon, Tomomi Shimogori, Henrik Skibbe
P06-046	Importance Weighted Variational Cardiac MRI Registration Using Transformer and Implicit Prior Kangrong Xu, Qirui Huang, Xuan Yang
P06-047	Improved flexibility and interpretability of large vessel stroke prognostication using image synthesis and multi-task learning Minyan Zeng, Yutong Xie, Minh-Son To, Lauren Oakden-Rayner, Luke Whitbread, Stephen Bacchi, Alix Bird, Luke Smith, Rebecca Scroop, Timothy Kleinig, Jim Jannes, Lyle J Palmer, Mark Jenkinson
P06-048	Improved Multi-Shot Diffusion-Weighted MRI with Zero-Shot Self-Supervised Learning Reconstruction Jaejin Cho, Yohan Jun, Xiaoqing Wang, Caique Kobayashi, Berkin Bilgic

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P06-049	Infusing physically inspired known operators in deep models of ultrasound elastography Ali K. Z. Tehrani, Hassan Rivaz
P06-050	Inverse Consistency by Construction for Multistep Deep Registration Hastings Greer, Lin Tian, Francois-Xavier Vialard, Roland Kwitt, Sylvain Bouix, Raul San Jose Estepar, Richard Rushmore, Marc Niethammer
P06-051	InverseSR: 3D Brain MRI Super-Resolution Using a Latent Diffusion Model Jueqi Wang, Jacob Levman, Walter Hugo Lopez Pinaya, Petru-Daniel Tudosiu, M. Jorge Cardoso, Razvan Marinescu
P06-052	JCCS-PFGM: A Novel Circle-Supervision based Poisson Flow Generative Model for Multiphase CECT Progressive Low-Dose Reconstruction with Joint Condition Rongjun Ge, Yuting He, Cong Xia, Daoqiang Zhang
P06-053	Learned Alternating Minimization Algorithm for Dual-Domain Sparse-View CT Reconstruction Chi Ding, Qingchao Zhang, Ge Wang, Xiaojing Ye, Yunmei Chen
P06-054	Learning Deep Intensity Field for Extremely Sparse-View CBCT Reconstruction Yiqun Lin, Zhongjin Luo, Wei Zhao, Xiaomeng Li
P06-055	Learning with Domain-Knowledge for Generalizable Prediction of Alzheimer's Disease from Multi-Site Structural MRI Yanjie Zhou, Youhao Li, Feng Zhou, Yong Liu, Liyun Tu
P06-056	LightNeuS: Neural Surface Reconstruction in Endoscopy using Illumination Decline V́ctor M. Batlle, Joś M. M. Montiel, Pascal Fua, Juan D. Tardós
P06-057	LLCaps: Learning to Illuminate Low-Light Capsule Endoscopy with Curved Wavelet Attention and Reverse Diffusion Long Bai, Tong Chen, Yanan Wu, An Wang, Mobarakol Islam, Hongliang Ren
P06-058	Low-dose CT image super-resolution network with dual-guidance feature distillation and dual-path content communication Jianning Chi, Zhiyi Sun, Tianli Zhao, Huan Wang, Xiaosheng Yu, Chengdong Wu
P06-059	LUCYD: A Feature-Driven Richardson-Lucy Deconvolution Network Tomáš Chobola, Gesine Müller, Veit Dausmann, Anton Theileis, Jan Taucher, Jan Huisken, Tingying Peng
P06-060	MEPNet: A Model-Driven Equivariant Proximal Network for Joint Sparse-View Reconstruction and Metal Artifact Reduction in CT Images Hong Wang, Minghao Zhou, Dong Wei, Yuexiang Li, Yefeng Zheng
P06-061	Mitral Regurgitation Quantification from Multi-channel Ultrasound Images via Deep Learning Keming Tang, Zhenyi Ge, Rongbo Ling, Jun Cheng, Wufeng Xue, Cuizhen Pan, Xianhong Shu, Dong Ni
P06-062	MoCoSR: Respiratory Motion Correction and Super-Resolution for 3D Abdominal MRI Weitong Zhang, Berke Basaran, Qingjie Meng, Matthew Baugh, Jonathan Stelter, Phillip Lung, Uday Patel, Wenjia Bai, Dimitrios Karampinos, Bernhard Kainz
P06-063	ModeT: Learning Deformable Image Registration via Motion Decomposition Transformer Haiqiao Wang, Dong Ni, Yi Wang
P06-064	ModusGraph: Automated 3D and 4D Mesh Model Reconstruction from cine CMR with Improved Accuracy and Efficiency Yu Deng, Hao Xu, Sashya Rodrigo, Steven E. Williams, Michelle C. Williams, Steven A. Niederer, Kuberan Pushparajah, Alistair Young

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P06-065	Motion Compensated Unsupervised Deep Learning for 5D MRI Joseph Kettelkamp, Ludovica Romanin, Davide Piccini, Sarv Priya, Mathews Jacob
P06-066	MRIS: A Multi-modal Retrieval Approach for Image Synthesis on Diverse Modalities Boqi Chen, Marc Niethammer
P06-067	MSKdeX: Musculoskeletal (MSK) decomposition from an X-ray image for fine-grained estimation of lean muscle mass and muscle volume Yi Gu, Yoshito Otake, Keisuke Uemura, Masaki Takao, Mazen Soufi, Yuta Hiasa, Hugues Talbot, Seiji Okada, Nobuhiko Sugano, Yoshinobu Sato
P06-068	MulHiST: Multiple Histological Staining for Thick Biological Samples via Unsupervised Image-to-Image Translation Lulin Shi, Yan Zhang, Ivy H. M. Wong, Claudia T. K. Lo, Terence T. W. Wong
P06-069	Multi-IMU with Online Self-Consistency for Freehand 3D Ultrasound Reconstruction Mingyuan Luo, Xin Yang, Zhongnuo Yan, Junyu Li, Yuanji Zhang, Jiongquan Chen, Xindi Hu, Jikuan Qian, Jun Cheng, Dong Ni
P06-070	Multi-perspective Adaptive Iteration Network for Metal Artifact Reduction Haiyang Mao, Yanyang Wang, Hengyong Yu, Weiwen Wu, Jianjia Zhang
P06-071	NASDM: Nuclei-Aware Semantic Histopathology Image Generation Using Diffusion Models Aman Shrivastava, P. Thomas Fletcher
P06-072	Noise Conditioned Weight Modulation for Robust and Generalizable Low Dose CT Denoising Sutanu Bera, Prabir Kumar Biswas
P06-073	Noise2Aliasing: Unsupervised Deep Learning for View Aliasing and Noise Reduction in 4DCBCT Samuele Papa, Efstratios Gavves, Jan-Jakob Sonke
P06-074	Non-iterative Coarse-to-fine Transformer Networks for Joint Affine and Deformable Image Registration Mingyuan Meng, Lei Bi, Michael Fulham, Dagan Feng, Jinman Kim
P06-075	Nonuniformly Spaced Control Points based on Variational Cardiac Image Registration Haosheng Su, Xuan Yang
P06-076	Optimizing the 3D Plate Shape for Proximal Humerus Fractures Marilyn Keller, Marcell Krall, James Smith, Hans Clement, Alexander M. Kerner, Andreas Gradischar, Ute Schäfer, Michael J. Black, Annelie Weinberg, Sergi Pujades
P06-077	PCMC-T1: Free-breathing myocardial T1 mapping with Physically-Constrained Motion Correction Eyal Hanania, Ilya Volovik, Lilach Barkat, Israel Cohen, Moti Freiman
P06-078	Personalized Patch-based Normality Assessment of Brain Atrophy in Alzheimer's Disease Jianwei Zhang, Yonggang Shi
P06-079	Physics-Informed Neural Networks for Tissue Elasticity Reconstruction in Magnetic Resonance Elastography Matthew Ragoza, Kayhan Batmanghelich
P06-080	PIViT: Large Deformation Image Registration with Pyramid-Iterative Vision Transformer Tai Ma, Xinru Dai, Suwei Zhang, Ying Wen

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P06-082	Progressively Coupling Network for Brain MRI Registration in Few-shot Situation Zuopeng Tan, Hengyu Zhang, Feng Tian, Lihe Zhang, Weibing Sun, Huchuan Lu
P06-083	Reflectance Mode Fluorescence Optical Tomography with Consumer-Grade Cameras Mykhaylo Zayats, Christopher Hansen, Ronan Cahill, Gareth Gallagher, Ra'ed Malallah, Amit Joshi, Sergiy Zhuk
P06-084	REStoring Clarity: Unpaired Retina Image Enhancement using Scattering Transform Ellen Jieun Oh, Yechan Hwang, Yubin Han, Taegeun Choi, Geunyoung Lee, Won Hwa Kim
P06-085	Revealing Anatomical Structures in PET to Generate CT for Attenuation Correction Yongsheng Pan, Feihong Liu, Caiwen Jiang, Jiawei Huang, Yong Xia, Dinggang Shen
P06-086	Revolutionizing Space Health (Swin-FSR): Advancing Super-Resolution of Fundus Images for SANS Visual Assessment Technology Khondker Fariha Hossain, Sharif Amit Kamran, Joshua Ong, Andrew G. Lee, Alireza Tavakkoli
P06-087	Robust estimation of the microstructure of the early developing brain using deep learning Hamza Kebiri, Ali Gholipour, Rizhong Lin, Lana Vasung, Davood Karimi, Meritxell Bach Cuadra
P06-088	S3M: Scalable Statistical Shape Modeling through Unsupervised Correspondences Lennart Bastian, Alexander Baumann, Emily Hoppe, Vincent Bürgin, Ha Young Kim, Mahdi Saleh, Benjamin Busam, Nassir Navab
P06-089	SAMConvex: Fast Discrete Optimization for CT Registration using Self-supervised Anatomical Embedding and Correlation Pyramid Zi Li, Lin Tian, Tony C. W. Mok, Xiaoyu Bai, Puyang Wang, Jia Ge, Jingren Zhou, Le Lu, Xianghua Ye, Ke Yan, Dakai Jin
P06-090	Self-Supervised MRI Reconstruction with Unrolled Diffusion Models Yilmaz Korkmaz, Tolga Cukur, Vishal M. Patel
P06-091	Simulation-based parameter optimization for fetal brain MRI super-resolution reconstruction Priscille de Dumast, Thomas Sanchez, H�el�ene Lajous, Meritxell Bach Cuadra
P06-092	Single-subject Multi-contrast MRI Super-resolution via Implicit Neural Representations Julian McGinnis, Suprosanna Shit, Hongwei Bran Li, Vasiliki Sideri-Lampretsa, Robert Graf, Maik Dannecker, Jiazhen Pan, Nil Stolt-Ans�o, Mark M�uhlau, Jan S. Kirschke, Daniel Rueckert, Benedikt Wiestler
P06-093	Solving Low-Dose CT Reconstruction via GAN with Local Coherence Wenjie Liu, Hu Ding
P06-094	SPR-Net: Structural Points based Registration for Coronary Arteries across Systolic and Diastolic Phases Xiao Zhang, Feihong Liu, Yuning Gu, Xiaosong Xiong, Caiwen Jiang, Jun Feng, Dinggang Shen
P06-095	StructuRegNet: Structure-guided Multimodal 2D-3D Registration Amaury Leroy, Alexandre Cafaro, Gr�egoire Gessain, Anne Champagnac, Vincent Gr�egoire, Eric Deutsch, Vincent Lepetit, Nikos Paragios
P06-096	Structure-Preserving Synthesis: MaskGAN for Unpaired MR-CT Translation Minh Hieu Phan, Zhibin Liao, Johan W. Verjans, Minh-Son To

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P06-098	Trackerless Volume Reconstruction from Intraoperative Ultrasound Images Sidaty El hadramy, Juan Verde, Karl-Philippe Beaudet, Nicolas Padoy, Stéphane Cotin
P06-099	Transformer-based Dual-domain Network for Few-view Dedicated Cardiac SPECT Image Reconstructions Huidong Xie, Bo Zhou, Xiongchao Chen, Xueqi Guo, Stephanie Thorn, Yi-Hwa Liu, Ge Wang, Albert Sinusas, Chi Liu
P06-100	TriDo-Former: A Triple-Domain Transformer for Direct PET Reconstruction from Low-Dose Sinograms Jiaqi Cui, Pinxian Zeng, Xinyi Zeng, Peng Wang, Xi Wu, Jiliu Zhou, Yan Wang, Dinggang Shen
P06-101	Twelve-Lead ECG Reconstruction from Single-Lead Signals Using Generative Adversarial Networks Jinho Joo, Gihun Joo, Yeji Kim, Moo-Nyun Jin, Junbeom Park, Hyeonseung Im
P06-102	Unified Brain MR-Ultrasound Synthesis using Multi-Modal Hierarchical Representations Reuben Dorent, Nazim Haouchine, Fryderyk Kogl, Samuel Joutard, Parikshit Juvekar, Erickson Torio, Alexandra J. Golby, Sebastien Ourselin, Sarah Frisken, Tom Vercauteren, Tina Kapur, William M. Wells III
P06-103	Weakly Supervised Cerebellar Cortical Surface Parcellation with Self-Visual Representation Learning Zhengwang Wu, Jiale Cheng, Fenqiang Zhao, Ya Wang, Yue Sun, Dajiang Zhu, Tianming Liu, Valerie Jewells, Weili Lin, Li Wang, Gang Li
P06-104	X2Vision : 3D CT Reconstruction from Biplanar X-Rays with Deep Structure Prior Alexandre Cafaro, Quentin Spinat, Amaury Leroy, Pauline Maury, Alexandre Munoz, Guillaume Beldjoudi, Charlotte Robert, Eric Deutsch, Vincent Grégoire, Vincent Lepetit, Nikos Paragios
P06-105	X-Ray to CT Rigid Registration Using Scene Coordinate Regression Pragyan Shrestha, Chun Xie, Hidehiko Shishido, Yuichi Yoshii, Itaru Kitahara