MICCAI 2021 – Poster Presentation Schedule (Tentative) – Updated August 31st, 2021

Day 1: September 28th, 2021 (Tuesday)

Session Tu-S1: 08:00 - 09:30 UTC **Topics**: Computer Assisted Intervention + Clinical Applications
Session Tu-S2: 09:30 - 11:00 UTC **Topics**: Label-efficient Learning + Image Registration
Session Tu-S3: 16:30 to18:00 UTC **Topics**: Computer Assisted Intervention + Clinical Applications
Session Tu-S4: 18:00 to 19:30 UTC **Topics**: Label-efficient Learning + Image Registration

Paper ID	Title/Authors	Poster Session
639	**Learning-based attenuation quantification in abdominal ultrasound** *Myeong-Gee Kim, SeokHwan Oh, Youngmin Kim, Hyuksool Kwon, Hyeon-Min Bae*	Tu-S1
1312	**Colorectal Polyp Classification from White-light Colonoscopy Images via Domain Alignment** *Qin Wang, Hui Che, Weizhen Ding, Li Xiang, Guanbin Li, Zhen Li, Shuguang Cui*	Tu-S1
1289	**Synthesis of Contrast-enhanced Spectral Mammograms from Low-energy Mammograms Using cGAN-Based Synthesis Network** *Yanyun Jiang, Yuanjie Zheng, Weikuan Jia, Sutao Song, Yanhui Ding*	Tu-S1
1339	**Self-adversarial Learning for Detection of Clustered Microcalcifications in Mammograms** *Xi Ouyang, Jifei Che, Qitian Chen, Zheren Li, Yiqiang Zhan, Zhong Xue, Qian Wang, Jie-Zhi Cheng, Dinggang Shen*	Tu-S1
1740	**Domain Generalization for Mammography Detection via Multi-style and Multi-view Contrastive Learning** *Zheren Li, Zhiming Cui, Sheng Wang, Yuji Qi, Xi Ouyang, Qitian Chen, Yuezhi Yang, Zhong Xue, Dinggang Shen, Jie-Zhi Cheng*	Tu-S1
2074	**Supervised Contrastive Pre-Training for Mammographic Triage Screening Models** *Zhenjie Cao, Zhicheng Yang, Yuxing Tang, Yanbo Zhang, Mei Han, Jing Xiao, Jie Ma, Peng Chang*	Tu-S1
812	**Transformer Network for Significant Stenosis Detection in CCTA of Coronary Arteries** *Xinghua Ma, Gongning Luo, Wei Wang, Kuanquan Wang*	Tu-S1

860	**Training Automatic View Planner for Cardiac MR Imaging via Self-Supervision by Spatial Relationship between Views** *Dong Wei, Kai Ma, Yefeng Zheng*	Tu-S1
1929	**Phase-independent Latent Representation for Cardiac Shape Analysis** *Josquin Harrison, Marco Lorenzi, Benoit Legghe, Xavier Iriart, Hubert Cochet, Maxime Sermesant*	Tu-S1
2062	**Cardiac Transmembrane Potential Imaging with GCN Based Iterative Soft Threshold Network** *Lide Mu, Huafeng Liu*	Tu-S1
2098	**AtrialGeneral: Domain Generalization for Left Atrial Segmentation of Multi-Center LGE MRIs** *Lei Li, Veronika A. Zimmer, Julia A. Schnabel, Xiahai Zhuang*	Tu-S1
270	**Multi-level Relationship Capture Network for Automated Skin Lesion Recognition** *Zihao Liu, Ruiqin Xiong, Tingting Jiang*	Tu-S1
1304	**End-to-end Ugly Duckling Sign Detection for Melanoma Identification with Transformers** *Zhen Yu, Victoria Mar, Anders Eriksson, Shakes Chandra, Paul Bonnington, Lei Zhang, Zongyuan Ge*	Tu-S1
1657	**Automatic Severity Rating for Improved Psoriasis Treatment** *Xian Wu, Yangtian Yan, Shuang Zhao, Yehong Kuang, Shen Ge, Kai Wang, Xiang Chen*	Tu-S1
1567	**EllipseNet: Anchor-Free Ellipse Detection for Automatic Cardiac Biometrics in Fetal Echocardiography** *Jiancong Chen, Yingying Zhang, Jingyi Wang, Xiaoxue Zhou, Yihua He, Tong Zhang*	Tu-S1
2019	**Learning Spatiotemporal Probabilistic Atlas of Fetal Brains with Anatomically Constrained Registration Network** *Yuchen Pei, Liangjun Chen, Fenqiang Zhao, Zhengwang Wu, Tao Zhong, Ya Wang, Changan Chen, Li Wang, He Zhang, Lisheng Wang, Gang Li*	Tu-S1
88	**Leveraging Auxiliary Information from EMR for Weakly Supervised Pulmonary Nodule Detection** *Hao-Hsiang Yang, Fu-En Wang, Cheng Sun, Kuan-Chih Huang, Hung-Wei Chen, Yi Chen, Hung-Chih Chen, Chun-Yu Liao, Shih-Hsuan Kao, Yu-Chiang Frank Wang, Chou-Chin Lan*	Tu-S1
251	**M-SEAM-NAM: Multi-instance Self-supervised Equivalent Attention Mechanism with Neighborhood Affinity Module for Double Weakly Supervised Segmentation of COVID-19** *Wen Tang, Han Kang, Ying Cao, Pengxin Yu, Hu Han, Rongguo Zhang, Kuan Chen*	Tu-S1

346	**Longitudinal Quantitative Assessment of COVID-19 Infection Progression from Chest CTs** *Seong Tae Kim, Leili Goli, Magdalini Paschali, Ashkan Khakzar, Matthias Keicher, Tobias Czempiel, Egon Burian, Rickmer Braren, Nassir Navab, Thomas Wendler*	Tu-S1
562	**Beyond COVID-19 Diagnosis: Prognosis with Hierarchical Graph Representation Learning** *Chen Liu, Jinze Cui, Dailin Gan, Guosheng Yin*	Tu-S1
1644	**Perceptual Quality Assessment of Chest Radiograph** *Mengda Guan, Yuanyuan Lyu, Wanyue Cao, Xingwang Wu, Jingjing Lu, S. Kevin Zhou*	Tu-S1
1741	**Pristine annotations-based multi-modal trained artificial intelligence solution to triage chest X-Ray for COVID19** *Tao Tan, Bipul Das, Ravi Soni, Mate Fejes, Sohan Ranjan, Daniel Attila Szabo, Vikram Melapudi, K S Shriram, Utkarsh Agrawal, László Ruskó, Zita Herczeg, Barbara Darazs, Pal Tegzes, Lehel Ferenczi, Rakesh Mullick, Gopal Avinash*	Tu-S1
461	**A Location Constrained Dual-branch Network for Reliable Diagnosis of Jaw Tumors and Cysts** *Jiacong Hu, Zunlei Feng, Yining Mao, Jie Lei, Dan Yu, Mingli Song*	Tu-S1
1126	**Incorporating Isodose Lines and Gradient Information via Multi-task Learning for Dose Prediction in Radiotherapy** *Shuai Tan, Pin Tang, Xingchen Peng, Jianghong Xiao, Chen Zu, Xi Wu, Jiliu Zhou, Yan Wang*	Tu-S1
71	**Relational Subsets Knowledge Distillation for Long-tailed Retinal Diseases Recognition** *Lie Ju, Xin Wang, Lin Wang, Tongliang Liu, Xin Zhao, Tom Drummond, Dwarikanath Mahapatra, Zongyuan Ge*	Tu-S1
222	**Cross-domain Depth Estimation Network for 3D Vessel Reconstruction in OCT Angiography** *Shuai Yu, Yonghuai Liu, Jiong Zhang, Jianyang Xie, Yalin Zheng, Jiang Liu, Yitian Zhao*	Tu-S1
254	**Distinguishing Differences Matters: Focal Contrastive Network for Peripheral Anterior Synechiae Recognition** *Yifan Yang, Huihui Fang, Qing Du, Fei Li, Xiulan Zhang, Mingkui Tan, Yanwu Xu*	Tu-S1
776	**MIL-VT: Multiple Instance Learning Enhanced Vision Transformer for Fundus Image Classification** *Shuang Yu, Kai Ma, Qi Bi, Cheng Bian, Munan Ning, Nanjun He, Yuexiang Li, Hanruo Liu, Yefeng Zheng*	Tu-S1
895	**BSDA-Net: A Boundary Shape and Distance Aware Joint Learning Framework for Segmenting and Classifying OCTA Images** *Li Lin, Zhonghua Wang, Jiewei Wu, Yijin Huang, Junyan Lyu, Pujin Cheng, Jiong Wu, Xiaoying Tang*	Tu-S1

988	**I-SECRET: Importance-guided fundus image enhancement via semi-supervised contrastive constraining** *Pujin Cheng, Li Lin, Yijin Huang, Junyan Lyu, Xiaoying Tang*	Tu-S1
1968	**Simultaneous Alignment and Surface Regression Using Hybrid 2D-3D Networks for 3D Coherent Layer Segmentation of Retina OCT Images** *Hong Liu, Dong Wei, Donghuan Lu, Yuexiang Li, Kai Ma, Liansheng Wang, Yefeng Zheng*	Tu-S1
1588	**Vessel Width Estimation via Convolutional Regression** *Rui-Qi Li, Gui-Bin Bian, Xiao-Hu Zhou, Xiaoliang Xie, Zhen-Liang Ni, Yan-Jie Zhou, Yuhan Wang, Zengguang Hou*	Tu-S1
2045	**Renal Cell Carcinoma Classification from Vascular Morphology** *Rudan Xiao, Eric Debreuve, Damien Ambrosetti, Xavier Descombes*	Tu-S1
1509	**Surgical Instruction Generation with Transformers** *Jinglu Zhang, Yinyu Nie, Jian Chang, Jian Jun Zhang*	Tu-S1
151	**E-DSSR: Efficient Dynamic Surgical Scene Reconstruction with Transformer-based Stereoscopic Depth Perception** *Yonghao Long, Zhaoshuo Li, Chi Hang Yee, Chi Fai Ng, Russell H. Taylor, Mathias Unberath, Qi Dou*	Tu-S1
340	**CataNet: Predicting remaining cataract surgery duration** *Andrés Marafioti, Michel Hayoz, Mathias Gallardo, Pablo Márquez Neila, Sebastian Wolf, Martin Zinkernagel, Raphael Sznitman*	Tu-S1
1830	**Task Fingerprinting for Meta Learning in Biomedical Image Analysis** *Patrick Godau, Lena Maier-Hein*	Tu-S1
2306	**Acoustic-based Spatio-temporal Learning for Press-fit Evaluation of Femoral Stem Implants** *Matthias Seibold, Armando Hoch, Daniel Suter, Mazda Farshad, Patrick O. Zingg, Nassir Navab, Philipp Fürnstahl*	Tu-S1
731	**A self-supervised deep framework for reference bony shape estimation in orthognathic surgical planning** *Deqiang Xiao, Hannah H. Deng, Tianshu Kuang, Lei Ma, Qin Liu, Xu Chen, Chunfeng Lian, Yankun Lang, Daeseung Kim, Jaime Gateno, Steve Guofang Shen, Dinggang Shen, Pew-Thian Yap, James J. Xia*	Tu-S1
1692	**Facial and cochlear nerves characterization using deep reinforcement learning for landmark detection** *Paula López Diez, Josefine Vilsbøll Sundgaard, François Patou, Jan Margeta, Rasmus Reinhold Paulsen*	Tu-S1

1766	**Patient-specific virtual spine straightening and vertebra inpainting: An automatic framework for osteoplasty planning** *Christina Bukas, Bailiang Jian, Luis Francisco Rodríguez Venegas, Francesca De Benetti, Sebastian Rühling, Anjany Sekuboyina, Jens Gempt, Jan Stefan Kirschke, Marie Piraud, Johannes Oberreuter, Nassir Navab, Thomas Wendler*	Tu-S1
2008	**A new Approach to Orthopedic Surgery Planning using Deep Reinforcement Learning and Simulation** *Joëlle Ackermann, Matthias Wieland, Armando Hoch, Reinhold Ganz, Jess G. Snedeker, Martin R. Oswald, Marc Pollefeys, Patrick O. Zingg, Hooman Esfandiari, Philipp Fürnstahl*	Tu-S1
184	**Trans-SVNet: Accurate Phase Recognition from Surgical Videos via Hybrid Embedding Aggregation Transformer** *Xiaojie Gao, Yueming Jin, Yonghao Long, Qi Dou, Pheng-Ann Heng*	Tu-S1
235	**OperA: Attention-Regularized Transformers for Surgical Phase Recognition** *Tobias Czempiel, Magdalini Paschali, Daniel Ostler, Seong Tae Kim, Benjamin Busam, Nassir Navab*	Tu-S1
849	**Surgical Workflow Anticipation using Instrument Interaction** *Kun Yuan, Matthew Holden, Shijian Gao, Won-Sook Lee*	Tu-S1
179	**Medical Image Registration Based on Uncoupled Learning and Accumulative Enhancement** *Yucheng Shu, Hao Wang, Bin Xiao, Xiuli Bi, Weisheng Li*	Tu-S2
219	**Atlas-Based Segmentation of Intracochlear Anatomy in Metal Artifact Affected CT Images of the Ear with Co-trained Deep Neural Networks** *Jianing Wang, Dingjie Su, Yubo Fan, Srijata Chakravorti, Jack H. Noble, Benoit M. Dawant*	Tu-S2
422	**Conditional Deformable Image Registration with Convolutional Neural Network** *Tony C. W. Mok, Albert C. S. Chung*	Tu-S2
479	**A Deep Discontinuity-Preserving Image Registration Network** *Xiang Chen, Yan Xia, Nishant Ravikumar, Alejandro F. Frangi*	Tu-S2

1370	**Learning Dual Transformer Network for Diffeomorphic Registration** *Yungeng Zhang, Yuru Pei, Hongbin Zha*	Tu-S2
1738	**Spectral Embedding Approximation and Descriptor Learning for Craniofacial Volumetric Image Correspondence** *Diya Sun, Yungeng Zhang, Yuru Pei, Tianmin Xu, Hongbin Zha*	Tu-S2
2146	**A Deep Network for Joint Registration and Parcellation of Cortical Surfaces** *Fenqiang Zhao, Zhengwang Wu, Li Wang, Weili Lin, Shunren Xia, Gang Li*	Tu-S2
2286	**4D-Foot: A fully automated pipeline of four-dimensional analysis of the foot bones using bi-plane X-ray video and CT** *Shuntaro Mizoe, Yoshito Otake, Takuma Miyamoto, Mazen Soufi, Satoko Nakao, Yasuhito Tanaka, Yoshinobu Sato*	Tu-S2
503	**TransPath: Transformer-based Self-supervised Learning for Histopathological Image Classification** *Xiyue Wang, Sen Yang, Jun Zhang, Minghui Wang, Jing Zhang, Junzhou Huang, Wei Yang, Xiao Han*	Tu-S2
1837	**GKD: Semi-supervised Graph Knowledge Distillation for Graph-Independent Inference** *Mahsa Ghorbani, Mojtaba Bahrami, Anees Kazi, Mahdieh Soleymani Baghshah, Hamid R. Rabiee, Nassir Navab*	Tu-S2
61	**SSLP: Spatial Guided Self-supervised Learning on Pathological Images** *Jiajun Li, Tiancheng Lin, Yi Xu*	Tu-S2
316	**Imbalance-Aware Self-Supervised Learning for 3D Radiomic Representations** *Hongwei Li, Fei-Fei Xue, Krishna Chaitanya, Shengda Luo, Ivan Ezhov, Benedikt Wiestler, Jianguo Zhang, Bjoern Menze*	Tu-S2
322	**Self-supervised visual representation learning for histopathological images** *Pengshuai Yang, Zhiwei Hong, Xiaoxu Yin, Chengzhan Zhu, Rui Jiang*	Tu-S2
395	**Sli2Vol: Annotate a 3D Volume from a Single Slice with Self-Supervised Learning** *Pak-Hei Yeung, Ana I. L. Namburete, Weidi Xie*	Tu-S2
836	**SAR: Scale-Aware Restoration Learning for 3D Tumor Segmentation** *Xiaoman Zhang, Shixiang Feng, Yuhang Zhou, Ya Zhang, Yanfeng Wang*	Tu-S2
867	**Self-Supervised Correction Learning for Semi-Supervised Biomedical Image Segmentation** *Ruifei Zhang, Sishuo Liu, Yizhou Yu, Guanbin Li*	Tu-S2

1067	**SpineGEM: A Hybrid-Supervised Model Generation Strategy Enabling Accurate Spine Disease Classification with a Small Training Dataset** *Xihe Kuang, Jason Pui Yin Cheung, Xiaowei Ding, Teng Zhang*	Tu-S2
1077	**Contrastive Learning of Relative Position Regression for One-Shot Object Localization in 3D Medical Images** *Wenhui Lei, Wei Xu, Ran Gu, Hao Fu, Shaoting Zhang, Shichuan Zhang, Guotai Wang*	Tu-S2
1110	**One-Shot Medical Landmark Detection** *Qingsong Yao, Quan Quan, Li Xiao, S. Kevin Zhou*	Tu-S2
1210	**Dual-Consistency Semi-Supervised Learning with Uncertainty Quantification for COVID-19 Lesion Segmentation from CT Images** *Yanwen Li, Luyang Luo, Huangjing Lin, Hao Chen, Pheng-Ann Heng*	Tu-S2
1497	**Longitudinal self-supervision to disentangle inter-patient variability from disease progression** *Raphaël Couronné, Paul Vernhet, Stanley Durrleman*	Tu-S2
1796	**Unsupervised Contrastive Learning of Radiomics and Deep Features for Label-Efficient Tumor Classification** *Ziteng Zhao, Guanyu Yang*	Tu-S2
2287	**Inter-Regional High-level Relation Learning from Functional Connectivity via Self-Supervision** *Wonsik Jung, Da-Woon Heo, Eunjin Jeon, Jaein Lee, Heung-Il Suk*	Tu-S2
25	**Semi-supervised Left Atrium Segmentation with Mutual Consistency Training** *Yicheng Wu, Minfeng Xu, Zongyuan Ge, Jianfei Cai, Lei Zhang*	Tu-S2
84	**Efficient Semi-Supervised Gross Target Volume of Nasopharyngeal Carcinoma Segmentation via Uncertainty Rectified Pyramid Consistency** *Xiangde Luo, Wenjun Liao, Jieneng Chen, Tao Song, Yinan Chen, Shichuan Zhang, Nianyong Chen, Guotai Wang, Shaoting Zhang*	Tu-S2

106	**Few-Shot Domain Adaptation with Polymorphic Transformers** *Shaohua Li, Xiuchao Sui, Jie Fu, Huazhu Fu, Xiangde Luo, Yangqin Feng, Xinxing Xu, Yong Liu, Daniel S. W. Ting, Rick Siow Mong Goh*	Tu-S2
149	**Reciprocal Learning for Semi-supervised Segmentation** *Xiangyun Zeng, Rian Huang, Yuming Zhong, Dong Sun, Chu Han, Di Lin, Dong Ni, Yi Wang*	Tu-S2
364	**3D Semantic Mapping from Arthroscopy using Out-of-distribution Pose and Depth and In-distribution Segmentation Training** *Yaqub Jonmohamadi, Shahnewaz Ali, Fengbei Liu, Jonathan Roberts, Ross Crawford, Gustavo Carneiro, Ajay K. Pandey*	Tu-S2
915	**Semi-Supervised Unpaired Multi-Modal Learning for Label-Efficient Medical Image Segmentation** *Lei Zhu, Kaiyuan Yang, Meihui Zhang, Ling Ling Chan, Teck Khim Ng, Beng Chin Ooi*	Tu-S2
939	**Implicit Neural Distance Representation for Unsupervised and Supervised Classification of Complex Anatomies** *Kristine Aavild Juhl, Xabier Morales, Ole de Backer, Oscar Camara, Rasmus Reinhold Paulsen*	Tu-S2
943	**3D Graph-S2Net: Shape-Aware Self-Ensembling Network for Semi-Supervised Segmentation with Bilateral Graph Convolution** *Huimin Huang, Nan Zhou, Lanfen Lin, Hongjie Hu, Yutaro Iwamoto, Xian-Hua Han, Yen-Wei Chen, Ruofeng Tong*	Tu-S2
1113	**Duo-SegNet: Adversarial Dual-Views for Semi-Supervised Medical Image Segmentation** *Himashi Peiris, Zhaolin Chen, Gary Egan, Mehrtash Harandi*	Tu-S2
1138	**Neighbor Matching for Semi-supervised Learning** *Renzhen Wang, Yichen Wu, Huai Chen, Lisheng Wang, Deyu Meng*	Tu-S2
1147	**Tripled-uncertainty Guided Mean Teacher model for Semi-supervised Medical Image Segmentation** *Kaiping Wang, Bo Zhan, Chen Zu, Xi Wu, Jiliu Zhou, Luping Zhou, Yan Wang*	Tu-S2
1662	**Learning with Noise: Mask-guided Attention Model for Weakly Supervised Nuclei Segmentation** *Ruoyu Guo, Maurice Pagnucco, Yang Song*	Tu-S2
1718	**Order-Guided Disentangled Representation Learning for Ulcerative Colitis Classification with Limited Labels** *Shota Harada, Ryoma Bise, Hideaki Hayashi, Kiyohito Tanaka, Seiichi Uchida*	Tu-S2

2229	**Functional Magnetic Resonance Imaging data augmentation through conditional ICA** *Badr Tajini, Hugo Richard, Bertrand Thirion*	Tu-S2
2413	**Scalable joint detection and segmentation of surgical instruments with weak supervision** *Ricardo Sanchez-Matilla, Maria Robu, Imanol Luengo, Danail Stoyanov*	Tu-S2
301	**OXnet: Deep Omni-supervised Thoracic Disease Detection from Chest X-rays** *Luyang Luo, Hao Chen, Yanning Zhou, Huangjing Lin, Pheng-Ann Heng*	Tu-S2
1362	**CPNet: Cycle Prototype Network for Weakly-supervised 3D Renal Chamber Segmentation** *Song Wang, Yuting He, Youyong Kong, Xiaomei Zhu, Shaobo Zhang, Pengfei Shao, Jean-Louis Dillenseger, Jean-Louis Coatrieux, Shuo Li, Guanyu Yang*	Tu-S2
1800	**Efficient and Generic Interactive Segmentation Framework to Correct Mispredictions during Clinical Evaluation of Medical Images** *Bhavani Sambaturu, Ashutosh Gupta, C.V. Jawahar, Chetan Arora*	Tu-S2
1893	**Learning Whole-Slide Segmentation from Inexact and Incomplete Labels using Tissue Graphs** *Valentin Anklin, Pushpak Pati, Guillaume Jaume, Behzad Bozorgtabar, Antonio Foncubierta-Rodriguez, Jean-Philippe Thiran, Mathilde Sibony, Maria Gabrani, Orcun Goksel*	Tu-S2
1955	**Labels-set Loss Functions for Partial Supervision: Application to Fetal Brain 3D MRI Parcellation** *Lucas Fidon, Michael Aertsen, Doaa Emam, Nada Mufti, Frédéric Guffens, Thomas Deprest, Philippe Demaerel, Anna L. David, Andrew Melbourne, Sébastien Ourselin, Jan Deprest, Tom Vercauteren*	Tu-S2
40	**USCL: Pretraining Deep Ultrasound Image Diagnosis Model through Video Contrastive Representation Learning** *Yixiong Chen, Chunhui Zhang, Li Liu, Cheng Feng, Changfeng Dong, Yongfang Luo, Xiang Wan*	Tu-S2
403	**Weakly-Supervised Ultrasound Video Segmentation with Minimal Annotations** *Ruiheng Chang, Dong Wang, Haiyan Guo, Jia Ding, Liwei Wang*	Tu-S2

530	**Learning More for Free - A Multi Task Learning Approach for Improved Pathology Classification in Capsule Endoscopy** *Anuja Vats, Marius Pedersen, Ahmed Mohammed, Øistein Hovde*	Tu-S3
1862	**Non-invasive Assessment of Hepatic Venous Pressure Gradient (HVPG) Based on MR Flow Imaging and Computational Fluid Dynamics** *Kexin Wang, Shuo Wang, Minghua Xiong, Chengyan Wang, He Wang*	Tu-S3
2185	**Deep-Cleansing: Deep-learning based Electronic Cleansing in Dual-energy CT Colonography** *Guibo Luo, Tianyu Liu, Bin Li, Michael Zalis, Wenli Cai*	Tu-S3
425	**Interactive smoothing parameter optimization in DBT Reconstruction using Deep learning** *Pranjal Sahu, Hailiang Huang, Wei Zhao, Hong Qin*	Tu-S3
1469	**Graph Transformers for Characterization and Interpretation of Surgical Margins** *Amoon Jamzad, Alice Santilli, Faranak Akbarifar, Martin Kaufmann, Kathryn Logan, Julie Wallis, Kevin Ren, Shaila Merchant, Jay Engel, Sonal Varma, Gabor Fichtinger, John Rudan, Parvin Mousavi*	Tu-S3
2071	**BI-RADS Classification of Calcification on Mammograms** *Yanbo Zhang, Yuxing Tang, Zhenjie Cao, Mei Han, Jing Xiao, Jie Ma, Peng Chang*	Tu-S3
2344	**Trainable summarization to improve breast tomosynthesis classification** *Mickael Tardy, Diana Mateus*	Tu-S3
247	**Distortion Energy for Deep Learning-based Volumetric Finite Element Mesh Generation for Aortic Valves** *Daniel H. Pak, Minliang Liu, Theodore Kim, Liang Liang, Raymond McKay, Wei Sun, James S. Duncan*	Tu-S3
702	**Ultrasound Video Transformers for Cardiac Ejection Fraction Estimation** *Hadrien Reynaud, Athanasios Vlontzos, Benjamin Hou, Arian Beqiri, Paul Leeson, Bernhard Kainz*	Tu-S3
798	**EchoCP: An Echocardiography Dataset in Contrast Transthoracic Echocardiography for Patent Foramen Ovale Diagnosis** *Tianchen Wang, Zhihe Li, Meiping Huang, Jian Zhuang, Shanshan Bi, Jiawei Zhang, Yiyu Shi, Hongwen Fei, Xiaowei Xu*	Tu-S3

2411	**TVnet: Automated Time-Resolved Tracking of the Tricuspid Valve Plane in MRI Long-Axis Cine Images with a Dual-Stage Deep Learning Pipeline** *Ricardo A. Gonzales, Jérôme Lamy, Felicia Seemann, Einar Heiberg, John A. Onofrey, Dana C. Peters*	Tu-S3
1095	**Culprit-Prune-Net: Efficient Continual Sequential Multi-Domain Learning with Application to Skin Lesion Classification** *Nourhan Bayasi, Ghassan Hamarneh, Rafeef Garbi*	Tu-S3
208	**STRESS: Super-Resolution for Dynamic Fetal MRI using Self-Supervised Learning** *Junshen Xu, Esra Abaci Turk, P. Ellen Grant, Polina Golland, Elfar Adalsteinsson*	Tu-S3
1315	**Detecting Hypo-plastic Left Heart Syndrome in Fetal Ultrasound via Disease-specific Atlas Maps** *Samuel Budd, Matthew Sinclair, Thomas Day, Athanasios Vlontzos, Jeremy Tan, Tianrui Liu, Jacqueline Matthew, Emily Skelton, John Simpson, Reza Razavi, Ben Glocker, Daniel Rueckert, Emma C. Robinson, Bernhard Kainz*	Tu-S3
1026	**RATCHET: Medical Transformer for Chest X-ray Diagnosis and Reporting** *Benjamin Hou, Georgios Kaissis, Ronald M. Summers, Bernhard Kainz*	Tu-S3
1946	**Determination of error in 3D CT to 2D fluoroscopy image registration for endobronchial guidance** *Nicole Varble, Alvin Chen, Ayushi Sinha, Brian Lee, Quirina de Ruiter, Bradford J. Wood, Torre Bydlon*	Tu-S3
2174	**Chest Radiograph Disentanglement for COVID-19 Outcome Prediction** *Lei Zhou, Joseph Bae, Huidong Liu, Gagandeep Singh, Jeremy Green, Dimitris Samaras, Prateek Prasanna*	Tu-S3
2202	**Attention based CNN-LSTM Network for Pulmonary Embolism Prediction on Chest Computed Tomography Pulmonary Angiograms** *Sudhir Suman, Gagandeep Singh, Nicole Sakla, Rishabh Gattu, Jeremy Green, Tej Phatak, Dimitris Samaras, Prateek Prasanna*	Tu-S3
2540	**LuMiRa: An Integrated Lung Deformation Atlas and 3D-CNN model of Infiltrates for COVID-19 Prognosis** *Amogh Hiremath, Lei Yuan, Rakesh Shiradkar, Kaustav Bera, Vidya Sankar Viswanathan, Pranjal Vaidya, Jennifer Furin, Keith Armitage, Robert Gilkeson, Mengyao Ji, Pingfu Fu, Amit Gupta, Cheng Lu, Anant Madabhushi*	Tu-S3
948	**Motion Correction for Liver DCE-MRI with Time-Intensity Curve Constraint** *Yuhang Sun, Dongming Wei, Zhiming Cui, Yujia Zhou, Caiwen Jiang, Jiameng Liu, Qianjin Feng, Dinggang Shen*	Tu-S3

1054	**Parallel Capsule Networks for Classification of White Blood Cells** *Juan P. Vigueras-Guillén, Arijit Patra, Ola Engkvist, Frank Seeliger*	Tu-S3
1185	**Sequential Learning on Liver Tumor Boundary Semantics and Prognostic Biomarker Mining** *Jie-Neng Chen, Ke Yan, Yu-Dong Zhang, Youbao Tang, Xun Xu, Shuwen Sun, Qiuping Liu, Lingyun Huang, Jing Xiao, Alan L. Yuille, Ya Zhang, Le Lu*	Tu-S3
1462	**Do we need complex image features to personalize treatment of patients with locally advanced rectal cancer?** *Iram Shahzadi, Annika Lattermann, Annett Linge, Alexander Zwanenburg, Christian Baldus, Jan C. Peeken, Stephanie E. Combs, Michael Baumann, Mechthild Krause, Esther G. C. Troost, Steffen Löck*	Tu-S3
2077	**Multiple Instance Learning with Auxiliary Task Weighting for Multiple Myeloma Classification** *Talha Qaiser, Stefan Winzeck, Theodore Barfoot, Tara Barwick, Simon J. Doran, Martin F. Kaiser, Linda Wedlake, Nina Tunariu, Dow-Mu Koh, Christina Messiou, Andrea Rockall, Ben Glocker*	Tu-S3
464	**RV-GAN: Segmenting Retinal Vascular Structure in Fundus Photographs using a Novel Multi-scale Generative Adversarial Network** *Sharif Amit Kamran, Khondker Fariha Hossain, Alireza Tavakkoli, Stewart Lee Zuckerbrod, Kenton M. Sanders, Salah A. Baker*	Tu-S3
778	**Local-global Dual Perception based Deep Multiple Instance Learning for Retinal Disease Classification** *Qi Bi, Shuang Yu, Wei Ji, Cheng Bian, Lijun Gong, Hanruo Liu, Kai Ma, Yefeng Zheng*	Tu-S3
903	**LensID: A CNN-RNN-Based Framework Towards Lens Irregularity Detection in Cataract Surgery Videos** *Negin Ghamsarian, Mario Taschwer, Doris Putzgruber-Adamitsch, Stephanie Sarny, Yosuf El-Shabrawi, Klaus Schoeffmann*	Tu-S3
1864	**Few-shot Transfer Learning for Hereditary Retinal Diseases Recognition** *Siwei Mai, Qian Li, Qi Zhao, Mingchen Gao*	Tu-S3
101	**Deep Open Snake Tracker for Vessel Tracing** *Li Chen, Wenjin Liu, Niranjan Balu, Mahmud Mossa-Basha, Thomas S. Hatsukami, Jenq-Neng Hwang, Chun Yuan*	Tu-S3
1048	**MASC-Units: Training Oriented Filters for Segmenting Curvilinear Structures** *Zewen Liu, Timothy Cootes*	Tu-S3

1291	**Visual-Assisted Probe Movement Guidance for Obstetric Ultrasound Scanning using Landmark Retrieval** *Cheng Zhao, Richard Droste, Lior Drukker, Aris T. Papageorghiou, J. Alison Noble*	Tu-S3
1900	**Detection of critical structures in laparoscopic cholecystectomy using label relaxation and self-supervision** *David Owen, Maria Grammatikopoulou, Imanol Luengo, Danail Stoyanov*	Tu-S3
264	**Deep Simulation of Facial Appearance Changes Following Craniomaxillofacial Bony Movements in Orthognathic Surgical Planning** *Lei Ma, Daeseung Kim, Chunfeng Lian, Deqiang Xiao, Tianshu Kuang, Qin Liu, Yankun Lang, Hannah H. Deng, Jaime Gateno, Ye Wu, Erkun Yang, Michael A.K. Liebschner, James J. Xia, Pew-Thian Yap*	Tu-S3
733	**DLLNet: An Attention-based Deep Learning Method for Dental Landmark Localization on High-Resolution 3D Digital Dental Models** *Yankun Lang, Hannah H. Deng, Deqiang Xiao, Chunfeng Lian, Tianshu Kuang, Jaime Gateno, Pew-Thian Yap, James J. Xia*	Tu-S3
1001	**Personalized CT Organ Dose Estimation from Scout Images** *Abdullah-Al-Zubaer Imran, Sen Wang, Debashish Pal, Sandeep Dutta, Bhavik Patel, Evan Zucker, Adam Wang*	Tu-S3
1512	**High-particle simulation of Monte-Carlo dose distribution with 3D ConvLSTMs** *Sonia Martinot, Norbert Bus, Maria Vakalopoulou, Charlotte Robert, Eric Deutsch, Nikos Paragios*	Tu-S3
1513	**Effective semantic segmentation in Cataract surgery: What matters most?** *Theodoros Pissas, Claudio S. Ravasio, Lyndon Da Cruz, Christos Bergeles*	Tu-S3
2144	**Whole Heart Mesh Generation For Image-Based Computational Simulations By Learning Free-From Deformations** *Fanwei Kong, Shawn C. Shadden*	Tu-S3
2386	**Automatic Path Planning for Safe Guide Pin Insertion in PCL Reconstruction Surgery** *Florian Kordon, Andreas Maier, Benedict Swartman, Maxim Privalov, Jan Siad El Barbari, Holger Kunze*	Tu-S3
2555	**Improving hexahedral-FEM-based plasticity in surgery simulation** *Ruiliang Gao, Jorg Peters*	Tu-S3
2581	**Rapid treatment planning for low-dose-rate prostate brachytherapy with TP-GAN** *Tajwar Abrar Aleef, Ingrid T. Spadinger, Michael D. Peacock, Septimiu E. Salcudean, S. Sara Mahdavi*	Tu-S3

1533	**Multi-View Surgical Video Action Detection via Mixed Global View Attention** *Adam Schmidt, Aidean Sharghi, Helene Haugerud, Daniel Oh, Omid Mohareri*	Tu-S3
1892	**Interhemispheric functional connectivity in the primary motor cortex distinguishes between training on a physical and a virtual surgical simulator** *Anirban Dutta, Anil Kamat, Basiel Makled, Jack Norfleet, Xavier Intes, Suvranu De*	Tu-S3
337	**Learning Unsupervised Parameter-specific Affine Transformation for Medical Images Registration** *Xu Chen, Yanda Meng, Yitian Zhao, Rachel Williams, Srinivasa R. Vallabhaneni, Yalin Zheng*	Tu-S4
585	**End-to-end Ultrasound Frame to Volume Registration** *Hengtao Guo, Xuanang Xu, Sheng Xu, Bradford J. Wood, Pingkun Yan*	Tu-S4
642	**Cross-modal Attention for MRI and Ultrasound Volume Registration** *Xinrui Song, Hengtao Guo, Xuanang Xu, Hanqing Chao, Sheng Xu, Baris Turkbey, Bradford J. Wood, Ge Wang, Pingkun Yan*	Tu-S4
705	**Bayesian Atlas Building with Hierarchical Priors for Subject-specific Regularization** *Jian Wang, Miaomiao Zhang*	Tu-S4
759	**SAME: Deformable Image Registration based on Self-supervised Anatomical Embeddings** *Fengze Liu, Ke Yan, Adam P. Harrison, Dazhou Guo, Le Lu, Alan L. Yuille, Lingyun Huang, Guotong Xie, Jing Xiao, Xianghua Ye, Dakai Jin*	Tu-S4
760	**Weakly Supervised Registration of Prostate MRI and Histopathology Images** *Wei Shao, Indrani Bhattacharya, Simon J. C. Soerensen, Christian A. Kunder, Jeffrey B. Wang, Richard E. Fan, Pejman Ghanouni, James D. Brooks, Geoffrey A. Sonn, Mirabela Rusu*	Tu-S4
889	**4D-CBCT Registration with a FBCT-derived Plug-and-Play Feasibility Regularizer** *Yudi Sang, Dan Ruan*	Tu-S4
947	**Unsupervised Diffeomorphic Surface Registration and Non-Linear Modelling** *Balder Croquet, Daan Christiaens, Seth M. Weinberg, Michael Bronstein, Dirk Vandermeulen, Peter Claes*	Tu-S4
1416	**Construction of Longitudinally Consistent 4D Infant Cerebellum Atlases based on Deep Learning** *Liangjun Chen, Zhengwang Wu, Dan Hu, Yuchen Pei, Fenqiang Zhao, Yue Sun, Ya Wang, Weili Lin, Li Wang, Gang Li*	Tu-S4

1502	**Nesterov Accelerated ADMM for Fast Diffeomorphic Image Registration** *Alexander Thorley, Xi Jia, Hyung Jin Chang, Boyang Liu, Karina Bunting, Victoria Stoll, Antonio de Marvao, Declan P. O'Regan, Georgios Gkoutos, Dipak Kotecha, Jinming Duan*	Tu-S4
2444	**Equivariant Filters for Efficient Tracking in 3D Imaging** *Daniel Moyer, Esra Abaci Turk, P. Ellen Grant, William M. Wells, Polina Golland*	Tu-S4
2461	**Revisiting iterative highly efficient optimisation schemes in medical image registration** *Lasse Hansen, Mattias P. Heinrich*	Tu-S4
2598	**Multi-scale Neural ODEs for 3D Medical Image Registration** *Junshen Xu, Eric Z. Chen, Xiao Chen, Terrence Chen, Shanhui Sun*	Tu-S4
238	**Segmentation of Left Atrial MR Images via Self-supervised Semi-supervised Meta-learning** *Dani Kiyasseh, Albert Swiston, Ronghua Chen, Antong Chen*	Tu-S4
313	**Deformed2Self: Self-Supervised Denoising for Dynamic Medical Imaging** *Junshen Xu, Elfar Adalsteinsson*	Tu-S4
382	**Contrastive Learning with Continuous Proxy Meta-Data For 3D MRI Classification** *Benoit Dufumier, Pietro Gori, Julie Victor, Antoine Grigis, Michele Wessa, Paolo Brambilla, Pauline Favre, Mircea Polosan, Colm McDonald, Camille Marie Piguet, Mary Phillips, Lisa Eyler, Edouard Duchesnay*	Tu-S4
538	**Self-Supervised Multi-Modal Alignment For Whole Body Medical Imaging** *Rhydian Windsor, Amir Jamaludin, Timor Kadir, Andrew Zisserman*	Tu-S4
569	**SimTriplet: Simple Triplet Representation Learning with a Single GPU** *Quan Liu, Peter C. Louis, Yuzhe Lu, Aadarsh Jha, Mengyang Zhao, Ruining Deng, Tianyuan Yao, Joseph T. Roland, Haichun Yang, Shilin Zhao, Lee E. Wheless, Yuankai Huo*	Tu-S4
730	**Lesion-based Contrastive Learning for Diabetic Retinopathy Grading from Fundus Images** *Yijin Huang, Li Lin, Pujin Cheng, Junyan Lyu, Xiaoying Tang*	Tu-S4
1088	**Topological Learning and Its Application to Multimodal Brain Network Integration** *Tananun Songdechakraiwut, Li Shen, Moo Chung*	Tu-S4

1188	**Implicit field learning for unsupervised anomaly detection in medical images** *Sergio Naval Marimont, Giacomo Tarroni*	Tu-S4
1235	**Contrastive Pre-training and Representation Distillation for Medical Visual Question Answering Based on Radiology Images** *Bo Liu, Li-Ming Zhan, Xiao-Ming Wu*	Tu-S4
1432	**Positional Contrastive Learning for Volumetric Medical Image Segmentation** *Dewen Zeng, Yawen Wu, Xinrong Hu, Xiaowei Xu, Haiyun Yuan, Meiping Huang, Jian Zhuang, Jingtong Hu, Yiyu Shi*	Tu-S4
1526	**Self-Supervised Vessel Enhancement Using Flow-Based Consistencies** *Rohit Jena, Sumedha Singla, Kayhan Batmanghelich*	Tu-S4
2149	**Learning 4D Infant Cortical Surface Atlas with Unsupervised Spherical Networks** *Fenqiang Zhao, Zhengwang Wu, Li Wang, Weili Lin, Shunren Xia, Gang Li*	Tu-S4
2195	**Multimodal Representation Learning via Maximization of Local Mutual Information** *Ruizhi Liao, Daniel Moyer, Miriam Cha, Keegan Quigley, Seth Berkowitz, Steven Horng, Polina Golland, William M. Wells*	Tu-S4
113	**Lesion Segmentation and RECIST Diameter Prediction via Click-driven Attention and Dual-path Connection** *Youbao Tang, Ke Yan, Jinzheng Cai, Lingyun Huang, Guotong Xie, Jing Xiao, Jingjing Lu, Gigin Lin, Le Lu*	Tu-S4
189	***Disentangled Sequential Graph Autoencoder for Preclinical Alzheimer's Disease Characterizations from ADNI Study*** *Fan Yang, Rui Meng, Hyuna Cho, Guorong Wu, Won Hwa Kim*	Tu-S4
314	**POPCORN: Progressive Pseudo-labeling with Consistency Regularization and Neighboring** *Reda Abdellah Kamraoui, Vinh-Thong Ta, Nicolas Papadakis, Fanny Compaire, Jose V Manjon, Pierrick Coupé*	Tu-S4
1905	**Semi-supervised Contrastive Learning for Label-efficient Medical Image Segmentation** *Xinrong Hu, Dewen Zeng, Xiaowei Xu, Yiyu Shi*	Tu-S4
83	**Weakly-Supervised Universal Lesion Segmentation with Regional Level Set Loss** *Youbao Tang, Jinzheng Cai, Ke Yan, Lingyun Huang, Guotong Xie, Jing Xiao, Jingjing Lu, Gigin Lin, Le Lu*	Tu-S4
142	**Bounding Box Tightness Prior for Weakly Supervised Image Segmentation** *Juan Wang, Bin Xia*	Tu-S4

498	**Adapting Off-the-Shelf Source Segmenter for Target Medical Image Segmentation** *Xiaofeng Liu, Fangxu Xing, Chao Yang, Georges El Fakhri, Jonghye Woo*	Tu-S4
820	**Improving Pneumonia Localization via Cross-Attention on Medical Images and Reports** *Riddhish Bhalodia, Ali Hatamizadeh, Leo Tam, Ziyue Xu, Xiaosong Wang, Evrim Turkbey, Daguang Xu*	Tu-S4
1046	**Combining Attention-based Multiple Instance Learning and Gaussian Processes for CT Hemorrhage Detection** *Yunan Wu, Arne Schmidt, Enrique Hernández-Sánchez, Rafael Molina, Aggelos K. Katsaggelos*	Tu-S4
1584	**Observational Supervision for Medical Image Classification using Gaze Data** *Khaled Saab, Sarah M. Hooper, Nimit S. Sohoni, Jupinder Parmar, Brian Pogatchnik, Sen Wu, Jared A. Dunnmon, Hongyang R. Zhang, Daniel Rubin, Christopher Ré*	Tu-S4
1754	**Inter Extreme Points Geodesics for End-to-End Weakly Supervised Image Segmentation** *Reuben Dorent, Samuel Joutard, Jonathan Shapey, Aaron Kujawa, Marc Modat, Sébastien Ourselin, Tom Vercauteren*	Tu-S4
2126	**Training Deep Networks for Prostate Cancer Diagnosis Using Coarse Histopathological Labels** *Golara Javadi, Samareh Samadi, Sharareh Bayat, Samira Sojoudi, Antonio Hurtado, Silvia Chang, Peter Black, Parvin Mousavi, Purang Abolmaesumi*	Tu-S4

Day 2: September 29th, 2021 (Wednesday)

Session We-S1: 08:00 - 09:30 UTC **Topic**: Computer Aided Diagnosis
Session We-S2: 09:30 - 11:00 UTC **Topics**: Machine Learning – Advances, Interpretability and Uncertainty + Image Reconstruction
Session We-S3: 16:00 - 17:30 UTC **Topic**: Computer Aided Diagnosis
Session We-S4: 17:30 - 19:00 UTC **Topics**: Machine Learning – Advances, Interpretability and Uncertainty + Image Reconstruction

Paper ID	Title/Authors	Poster Session
1866	**AutoFB: Automating Fetal Biometry Estimation from Standard Ultrasound Planes** *Sophia Bano, Brian Dromey, Francisco Vasconcelos, Raffaele Napolitano, Anna L. David, Donald M. Peebles, Danail Stoyanov*	We-S1
18	**Hepatocellular Carcinoma Segmentation from Digital Subtraction Angiography Videos using Learnable Temporal Difference** *Wenting Jiang, Yicheng Jiang, Lu Zhang, Changmiao Wang, Xiaoguang Han, Shuixing Zhang, Xiang Wan, Shuguang Cui*	We-S1
53	**CA-Net: Leveraging Contextual Features for Lung Cancer Prediction** *Mingzhou Liu, Fandong Zhang, Xinwei Sun, Yizhou Yu, Yizhou Wang*	We-S1
56	**DAE-GCN: Identifying Disease-Related Features for Disease Prediction** *Churan Wang, Xinwei Sun, Fandong Zhang, Yizhou Yu, Yizhou Wang*	We-S1
62	**Enhanced Breast Lesion Classification via Knowledge Guided Cross-Modal and Semantic Data Augmentation** *Kun Chen, Yuanfan Guo, Canqian Yang, Yi Xu, Rui Zhang, Chunxiao Li, Rong Wu*	We-S1
66	**Multiple Meta-model Quantifying for Medical Visual Question Answering** *Tuong Do, Binh X. Nguyen, Erman Tjiputra, Minh Tran, Quang D. Tran, Anh Nguyen*	We-S1
185	**You Only Learn Once: Universal Anatomical Landmark Detection** *Heqin Zhu, Qingsong Yao, Li Xiao, S. Kevin Zhou*	We-S1

906	**Multi-frame Collaboration for Effective Endoscopic Video Polyp Detection via Spatial-Temporal Feature Transformation** *Lingyun Wu, Zhiqiang Hu, Yuanfeng Ji, Ping Luo, Shaoting Zhang*	We-S1
934	**MBFF-Net: Multi-Branch Feature Fusion Network for Carotid Plaque Segmentation in Ultrasound** *Shiyu Mi, Qiqi Bao, Zhanghong Wei, Fan Xu, Wenming Yang*	We-S1
1058	**Towards Robust Dual-view Transformation via Densifying Sparse Supervision for Mammography Lesion Matching** *Junlin Xian, Zhiwei Wang, Kwang-Ting Cheng, Xin Yang*	We-S1
1128	**DeepOPG: Improving Orthopantomogram Finding Summarization with Weak Supervision** *Tzu-Ming Harry Hsu, Yin-Chih Chelsea Wang*	We-S1
1159	**Joint Spinal Centerline Extraction and Curvature Estimation with Row-wise Classification and Curve Graph Network** *Long Huo, Bin Cai, Pengpeng Liang, Zhiyong Sun, Chi Xiong, Chaoshi Niu, Bo Song, Erkang Cheng*	We-S1
1167	**LDPolypVideo Benchmark: A Large-scale Colonoscopy Video Dataset of Diverse Polyps** *Yiting Ma, Xuejin Chen, Kai Cheng, Yang Li, Bin Sun*	We-S1
1206	**Continual Learning with Bayesian Model based on a Fixed Pre-trained Feature Extractor** *Yang Yang, Zhiying Cui, Junjie Xu, Changhong Zhong, Ruixuan Wang, Wei-Shi Zheng*	We-S1
1249	**Alleviating Data Imbalance Issue with Perturbed Input during Inference** *Kanghao Chen, Yifan Mao, Huijuan Lu, Chenghua Zeng, Ruixuan Wang, Wei-Shi Zheng*	We-S1
1256	**A Deep Reinforced Tree-traversal Agent for Coronary Artery Centerline Extraction** *Zhuowei Li, Qing Xia, Zhiqiang Hu, Wenji Wang, Lijian Xu, Shaoting Zhang*	We-S1
1325	**Predicting Symptoms from Multiphasic MRI via Multi-Instance Attention Learning for Hepatocellular Carcinoma Grading** *Zelin Qiu, Yongsheng Pan, Jie Wei, Dijia Wu, Yong Xia, Dinggang Shen*	We-S1
1373	**Triplet-Branch Network with Prior-Knowledge Embedding for Fatigue Fracture Grading** *Yuexiang Li, Yanping Wang, Guang Lin, Yi Lin, Dong Wei, Qirui Zhang, Kai Ma, Guangming Lu, Zhiqiang Zhang, Yefeng Zheng*	We-S1

1599	**Seg4Reg+: A Local and Global ConsistencyLearning between Spine Segmentation and CobbAngle Regression** *Yi Lin, Luyan Liu, Kai Ma, Yefeng Zheng*	We-S1
1681	**Meta-Modulation Network for Domain Generalization in Multi-site fMRI Classification** *Jaein Lee, Eunsong Kang, Eunjin Jeon, Heung-Il Suk*	We-S1
1834	**Unsupervised Representation Learning Meets Pseudo-Label Supervised Self-Distillation: A New Approach to Rare Disease Classification** *Jinghan Sun, Dong Wei, Kai Ma, Liansheng Wang, Yefeng Zheng*	We-S1
153	**Co-Graph Attention Reasoning based Imaging and Clinical Features Integration for Lymph Node Metastasis Prediction** *Hui Cui, Ping Xuan, Qiangguo Jin, Mingjun Ding, Butuo Li, Bing Zou, Yiyue Xu, Bingjie Fan, Wanlong Li, Jinming Yu, Linlin Wang, Been-Lirn Duh*	We-S1
135	**Identifying Quantitative and Explanatory Tumor Indexes from Dynamic Contrast Enhanced Ultrasound** *Peng Wan, Chunrui Liu, Fang Chen, Jing Qin, Daoqiang Zhang*	We-S1
245	**Predicting Esophageal Fistula Risks Using a Multimodal Self-Attention Network** *Yulu Guan, Hui Cui, Yiyue Xu, Qiangguo Jin, Tian Feng, Huawei Tu, Ping Xuan, Wanlong Li, Linlin Wang, Been-Lirn Duh*	We-S1
278	**Hybrid Aggregation Network for Survival Analysis from Whole Slide Histopathological Images** *Jia-Ren Chang, Ching-Yi Lee, Chi-Chung Chen, Joachim Reischl, Talha Qaiser, Chao-Yuan Yeh*	We-S1
966	**Beyond Non-Maximum Suppression - Detecting Lesions in Digital Breast Tomosynthesis Volumes** *Yoel Shoshan, Aviad Zlotnick, Vadim Ratner, Daniel Khapun, Ella Barkan, Flora Gilboa-Solomon*	We-S1
1510	**Projection-wise Disentangling for Fair and Interpretable Representation Learning: Application to 3D Facial Shape Analysis** *Xianjing Liu, Bo Li, Esther Bron, Wiro Niessen, Eppo Wolvius, Gennady Roshchupkin*	We-S1

1786	**Learned super resolution ultrasound for improved breast lesion characterization** *Or Bar-Shira, Ahuva Grubstein, Yael Rapson, Dror Suhami, Eli Atar, Keren Peri-Hanania, Ronnie Rosen, Yonina C. Eldar*	We-S2
51	**Two-Stage Self-Supervised Cycle-Consistency Network for Reconstruction of Thin-Slice MR Images** *Zhiyang Lu, Zheng Li, Jun Wang, Jun Shi, Dinggang Shen*	We-S2
121	**TarGAN: Target-Aware Generative Adversarial Networks for Multi-modality Medical Image Translation** *Junxiao Chen, Jia Wei, Rui Li*	We-S2
200	**Generalised Super Resolution for Quantitative MRI Using Self-Supervised Mixture of Experts** *Hongxiang Lin, Yukun Zhou, Paddy J. Slator, Daniel C. Alexander*	We-S2
236	**IREM: High-Resolution Magnetic Resonance Image Reconstruction via Implicit Neural Representation** *Qing Wu, Yuwei Li, Lan Xu, Ruiming Feng, Hongjiang Wei, Qing Yang, Boliang Yu, Xiaozhao Liu, Jingyi Yu, Yuyao Zhang*	We-S2
413	**Improving Generalizability in Limited-Angle CT Reconstruction with Sinogram Extrapolation** *Ce Wang, Haimiao Zhang, Qian Li, Kun Shang, Yuanyuan Lyu, Bin Dong, S. Kevin Zhou*	We-S2
428	**Fast Magnetic Resonance Imaging on Regions of Interest: From Sensing to Reconstruction** *Liyan Sun, Hongyu Huang, Xinghao Ding, Yue Huang, Xiaoqing Liu, Yizhou Yu*	We-S2
432	**InDuDoNet: An Interpretable Dual Domain Network for CT Metal Artifact Reduction** *Hong Wang, Yuexiang Li, Haimiao Zhang, Jiawei Chen, Kai Ma, Deyu Meng, Yefeng Zheng*	We-S2
443	**Depth Estimation for Colonoscopy Images with Self-supervised Learning from Videos** *Kai Cheng, Yiting Ma, Bin Sun, Yang Li, Xuejin Chen*	We-S2
632	**RLP-Net: Recursive Light Propagation Network for 3-D Virtual Refocusing** *Changyeop Shin, Hyun Ryu, Eun-Seo Cho, Young-Gyu Yoon*	We-S2
633	**Noise Mapping and Removal in Complex-Valued Multi-Channel MRI via Optimal Shrinkage of Singular Values** *Khoi Minh Huynh, Wei-Tang Chang, Sang Hun Chung, Yong Chen, Yueh Lee, Pew-Thian Yap*	We-S2
662	**Self Context and Shape Prior for Sensorless Freehand 3D Ultrasound Reconstruction** *Mingyuan Luo, Xin Yang, Xiaoqiong Huang, Yuhao Huang, Yuxin Zou, Xindi Hu, Nishant Ravikumar, Alejandro F. Frangi, Dong Ni*	We-S2

763	**Universal Undersampled MRI Reconstruction** *Xinwen Liu, Jing Wang, Feng Liu, S. Kevin Zhou*	We-S2
846	**A Neural Framework for Multi-Variable Lesion Quantification Through B-mode Style Transfer** *SeokHwan Oh, Myeong-Gee Kim, Youngmin Kim, Hyuksool Kwon, Hyeon-Min Bae*	We-S2
972	**Dual-Domain Adaptive-Scaling Non-Local Network for CT Metal Artifact Reduction** *Tao Wang, Wenjun Xia, Yongqiang Huang, Huaiqiang Sun, Yan Liu, Hu Chen, Jiliu Zhou, Yi Zhang*	We-S2
1016	**Towards Ultrafast MRI via Extreme k-Space Undersampling and Superresolution** *Aleksandr Belov, Joël Stadelmann, Sergey Kastryulin, Dmitry V. Dylov*	We-S2
1154	**3D Transformer-GAN for High-quality PET Reconstruction** *Yanmei Luo, Yan Wang, Chen Zu, Bo Zhan, Xi Wu, Jiliu Zhou, Dinggang Shen, Luping Zhou*	We-S2
1189	**Learnable Multi-scale Fourier Interpolation for Sparse View CT Image Reconstruction** *Qiaoqiao Ding, Hui Ji, Hao Gao, Xiaoqun Zhang*	We-S2
1201	**U-DuDoNet: Unpaired dual-domain network for CT metal artifact reduction** *Yuanyuan Lyu, Jiajun Fu, Cheng Peng, S. Kevin Zhou*	We-S2
1250	**Conditional GAN with an Attention-based Generator and a 3D Discriminator for 3D Medical Image Generation** *Euijin Jung, Miguel Luna, Sang Hyun Park*	We-S2
1596	**High-Resolution Hierarchical Adversarial Learning for OCT Speckle Noise Reduction** *Yi Zhou, Jiang Li, Meng Wang, Weifang Zhu, Yuanyuan Peng, Zhongyue Chen, Lianyu Wang, Tingting Wang, Chenpu Yao, Ting Wang, Xinjian Chen*	We-S2
1698	**Self-Supervised Learning for MRI Reconstruction with a Parallel Network Training Framework** *Chen Hu, Cheng Li, Haifeng Wang, Qiegen Liu, Hairong Zheng, Shanshan Wang*	We-S2
1716	**Acceleration by deep-learnt sharing of superfluous information in multi-contrast MRI** *Sudhanya Chatterjee, Suresh Emmanuel Joel, Ramesh Venkatesan, Dattesh Dayanand Shanbhag*	We-S2

1814	**Sequential Lung Nodule Synthesis using Attribute-guided Generative Adversarial Networks** *Sungho Suh, Sojeong Cheon, Dong-Jin Chang, Deukhee Lee, Yong Oh Lee*	We-S2
1815	**A Data-driven Approach for High Frame Rate Synthetic Transmit Aperture Ultrasound Imaging** *Yinran Chen, Jing Liu, Jianwen Luo, Xiongbiao Luo*	We-S2
1908	**Interpretable deep learning for multimodal super-resolution of medical images** *Evaggelia Tsiligianni, Matina Zerva, Iman Marivani, Nikos Deligiannis, Lisimachos Kondi*	We-S2
2250	**Revisiting contour-driven and knowledge-based deformable models: application to 2D-3D proximal femur reconstruction from X-ray images** *Christophe Chênes, Jérôme Schmid*	We-S2
2251	**Memory-efficient Learning for High-dimensional MRI Reconstruction** *Ke Wang, Michael Kellman, Christopher M. Sandino, Kevin Zhang, Shreyas S. Vasanawala, Jonathan I. Tamir, Stella X. Yu, Michael Lustig*	We-S2
336	**Demystifying T1-MRI to FDG18-PET Image Translation via Representational Similarity** *Chia-Hsiang Kao, Yong-Sheng Chen, Li-Fen Chen, Wei-Chen Chiu*	We-S2
1378	**Detecting when pre-trained nnU-Net models fail silently for Covid-19 lung lesion segmentation** *Camila Gonzalez, Karol Gotkowski, Andreas Bucher, Ricarda Fischbach, Isabel Kaltenborn, Anirban Mukhopadhyay*	We-S2
487	**Conditional Training with Bounding Map for Universal Lesion Detection** *Han Li, Long Chen, Hu Han, Ying Chi, S. Kevin Zhou*	We-S2
2103	**Distilling effective supervision for robust medical image segmentation with noisy labels** *Jialin Shi, Ji Wu*	We-S2
821	**Joint Motion Correction and Super Resolution for Cardiac Segmentation via Latent Optimisation** *Shuo Wang, Chen Qin, Nicolò Savioli, Chen Chen, Declan P. O'Regan, Stuart Cook, Yike Guo, Daniel Rueckert, Wenjia Bai*	We-S2
1101	**A Hierarchical Feature Constraint to CamouflageMedical Adversarial Attacks** *Qingsong Yao, Zecheng He, Yi Lin, Kai Ma, Yefeng Zheng, S. Kevin Zhou*	We-S2

338	**AlignTransformer: Hierarchical Alignment of Visual Regions and Disease Tags for Medical Report Generation** *Di You, Fenglin Liu, Shen Ge, Xiaoxia Xie, Jing Zhang, Xian Wu*	We-S2
366	**Continuous-Time Deep Glioma Growth Models** *Jens Petersen, Fabian Isensee, Gregor Köhler, Paul F. Jäger, David Zimmerer, Ulf Neuberger, Wolfgang Wick, Jürgen Debus, Sabine Heiland, Martin Bendszus, Philipp Vollmuth, Klaus H. Maier-Hein*	We-S2
853	**Spine-Transformers: Vertebra Detection and Localization in Arbitrary Field-of-View Spine CT with Transformers** *Rong Tao, Guoyan Zheng*	We-S2
1007	**Multi-view analysis of unregistered medical images using cross-view transformers** *Gijs van Tulder, Yao Tong, Elena Marchiori*	We-S2
1293	**Personalized Retrogress-Resilient Framework for Real-World Medical Federated Learning** *Zhen Chen, Meilu Zhu, Chen Yang, Yixuan Yuan*	We-S2
2060	**Federated Contrastive Learning for Decentralized Unlabeled Medical Images** *Nanqing Dong, Irina Voiculescu*	We-S2
328	**Explaining COVID-19 and Thoracic Pathology Model Predictions by Identifying Informative Input Features** *Ashkan Khakzar, Yang Zhang, Wejdene Mansour, Yuezhi Cai, Yawei Li, Yucheng Zhang, Seong Tae Kim, Nassir Navab*	We-S2
1234	**Fighting Class Imbalance with Contrastive Learning** *Yassine Marrakchi, Osama Makansi, Thomas Brox*	We-S2
1243	**Interpretable gender classification from retinal fundus images using BagNets** *Indu Ilanchezian, Dmitry Kobak, Hanna Faber, Focke Ziemssen, Philipp Berens, Murat Seçkin Ayhan*	We-S2
1244	**Explainable Classification of Weakly Annotated Wireless Capsule Endoscopy Images based on a Fuzzy Bag-of-Colour Features Model and Brain Storm Optimization** *Michael Vasilakakis, Georgia Sovatzidi, Dimitris K. Iakovidis*	We-S2

1329	**A Principled Approach to Failure Analysis and Model Repairment: Demonstration in Medical Imaging** *Thomas Henn, Yasukazu Sakamoto, Clément Jacquet, Shunsuke Yoshizawa, Masamichi Andou, Stephen Tchen, Ryosuke Saga, Hiroyuki Ishihara, Katsuhiko Shimizu, Yingzhen Li, Ryutaro Tanno*	We-S2
2437	**Improving the Explainability of Skin Cancer Diagnosis Using CBIR** *Catarina Barata, Carlos Santiago*	We-S2
97	**Medical Matting: A New Perspective on Medical Segmentation with Uncertainty** *Lin Wang, Lie Ju, Donghao Zhang, Xin Wang, Wanji He, Yelin Huang, Zhiwen Yang, Xuan Yao, Xin Zhao, Xiufen Ye, Zongyuan Ge*	We-S2
611	**Confidence-aware Cascaded Network for Fetal Brain Segmentation on MR Images** *Xukun Zhang, Zhiming Cui, Changan Chen, Jie Wei, Jingjiao Lou, Wenxin Hu, He Zhang, Tao Zhou, Feng Shi, Dinggang Shen*	We-S2
1353	**Uncertainty-Guided Progressive GANs for Medical Image Translation** *Uddeshya Upadhyay, Yanbei Chen, Tobias Hepp, Sergios Gatidis, Zeynep Akata*	We-S2
2084	**Variational Topic Inference for Chest X-Ray Report Generation** *Ivona Najdenkoska, Xiantong Zhen, Marcel Worring, Ling Shao*	We-S2
15	**DeepStationing: Thoracic Lymph Node Station Parsing in CT Scans using Anatomical Context Encoding and Key Organ Auto-Search** *Dazhou Guo, Xianghua Ye, Jia Ge, Xing Di, Le Lu, Lingyun Huang, Guotong Xie, Jing Xiao, Zhongjie Lu, Ling Peng, Senxiang Yan, Dakai Jin*	We-S3
54	**Semi-Supervised Learning for Bone Mineral Density Estimation in Hip X-ray Images** *Kang Zheng, Yirui Wang, Xiao-Yun Zhou, Fakai Wang, Le Lu, Chihung Lin, Lingyun Huang, Guotong Xie, Jing Xiao, Chang-Fu Kuo, Shun Miao*	We-S3
111	**mfTrans-Net: Quantitative Measurement of Hepatocellular Carcinoma via Multi-Function Transformer Regression Network** *Jianfeng Zhao, Xiaojiao Xiao, Dengwang Li, Jaron Chong, Zahra Kassam, Bo Chen, Shuo Li*	We-S3

564	**Tensor-based Multi-index Representation Learning for Major Depression Disorder Detection with Resting-state fMRI** *Dongren Yao, Erkun Yang, Hao Guan, Jing Sui, Zhizhong Zhang, Mingxia Liu*	We-S3
604	**Airway Anomaly Detection by Graph Neural Network** *Tianyi Zhao, Zhaozheng Yin*	We-S3
635	**Stochastic 4D Flow Vector-Field Signatures: A new approach for comprehensive 4D Flow MRI quantification** *Mohammed S.M. Elbaz, Chris Malaisrie, Patrick McCarthy, Michael Markl*	We-S3
734	**ASC-Net: Adversarial-based Selective Network for Unsupervised Anomaly Segmentation** *Raunak Dey, Yi Hong*	We-S3
738	**Cost-Sensitive Meta-Learning for Progress Prediction of Subjective Cognitive Decline with Brain Structural MRI** *Hao Guan, Yunbi Liu, Shifu Xiao, Ling Yue, Mingxia Liu*	We-S3
744	**Effective Pancreatic Cancer Screening on Non-contrast CT Scans via Anatomy-Aware Transformers** *Yingda Xia, Jiawen Yao, Le Lu, Lingyun Huang, Guotong Xie, Jing Xiao, Alan L. Yuille, Kai Cao, Ling Zhang*	We-S3
754	**Learning from Subjective Ratings Using Auto-Decoded Deep Latent Embeddings** *Bowen Li, Xinping Ren, Ke Yan, Le Lu, Lingyun Huang, Guotong Xie, Jing Xiao, Dar-In Tai, Adam P. Harrison*	We-S3
837	**VinDr-SpineXR: A deep learning framework for spinal lesions detection and classification from radiographs** *Hieu T. Nguyen, Hieu H. Pham, Nghia T. Nguyen, Ha Q. Nguyen, Thang Q. Huynh, Minh Dao, Van Vu*	We-S3
995	**Transfer Learning of Deep Spatiotemporal Networks to Model Arbitrarily Long Videos of Seizures** *Fernando Pérez-García, Catherine Scott, Rachel Sparks, Beate Diehl, Sébastien Ourselin*	We-S3
1023	**Retina-Match: Ipsilateral Mammography Lesion Matching in a Single Shot Detection Pipeline** *Yinhao Ren, Jiafeng Lu, Zisheng Liang, Lars J. Grimm, Connie Kim, Michael Taylor-Cho, Sora Yoon, Jeffrey R. Marks, Joseph Y. Lo*	We-S3

1279	**Sequential Gaussian Process Regression for Simultaneous Pathology Detection and Shape Reconstruction** *Dana Rahbani, Andreas Morel-Forster, Dennis Madsen, Jonathan Aellen, Thomas Vetter*	We-S3
1457	**DeepMitral: Fully Automatic 3D Echocardiography Segmentation for Patient Specific Mitral Valve Modelling** *Patrick Carnahan, John Moore, Daniel Bainbridge, Mehdi Eskandari, Elvis C. S. Chen, Terry M. Peters*	We-S3
1459	**Data Augmentation in Logit Space for Medical Image Classification with Limited Training Data** *Yangwen Hu, Zhehao Zhong, Ruixuan Wang, Hongmei Liu, Zhijun Tan, Wei-Shi Zheng*	We-S3
1706	**3D Brain Midline Delineation for Hematoma Patients** *Chenchen Qin, Haoming Li, Yixun Liu, Hong Shang, Hanqi Pei, Xiaoning Wang, Yihao Chen, Jianbo Chang, Ming Feng, Renzhi Wang, Jianhua Yao*	We-S3
1836	**nnDetection: A Self-configuring Method for Medical Object Detection** *Michael Baumgartner, Paul F. Jäger, Fabian Isensee, Klaus H. Maier-Hein*	We-S3
1844	**Automating Embryo Development Stage Detection in Time-Lapse Imaging with Synergic Loss and Temporal Learning** *Lisette Lockhart, Parvaneh Saeedi, Jason Au, Jon Havelock*	We-S3
2004	**Few Trust Data Guided Annotation Refinement for Upper Gastrointestinal Anatomy Recognition** *Yan Li, Kai Lan, Xiaoyi Chen, Li Quan, Ni Zhang*	We-S3
2033	**Asymmetric 3D Context Fusion for Universal Lesion Detection** *Jiancheng Yang, Yi He, Kaiming Kuang, Zudi Lin, Hanspeter Pfister, Bingbing Ni*	We-S3
2129	**Detecting Outliers with Poisson Image Interpolation** *Jeremy Tan, Benjamin Hou, Thomas Day, John Simpson, Daniel Rueckert, Bernhard Kainz*	We-S3
2223	**MG-NET: Leveraging Pseudo-Imaging for Multi-Modal Metagenome Analysis** *Sathyanarayanan N. Aakur, Sai Narayanan, Vineela Indla, Arunkumar Bagavathi, Vishalini Laguduva Ramnath, Akhilesh Ramachandran*	We-S3
2326	**Multimodal Multitask Deep Learning for X-Ray Image Retrieval** *Yang Yu, Peng Hu, Jie Lin, Pavitra Krishnaswamy*	We-S3

2340	**Linear Prediction Residual for Efficient Diagnosis of Parkinson's Disease from Gait** *Shanmukh Alle, U. Deva Priyakumar*	We-S3
2471	**Primary Tumor and Inter-Organ Augmentations for Supervised Lymph Node Colon Adenocarcinoma Metastasis Detection** *Apostolia Tsirikoglou, Karin Stacke, Gabriel Eilertsen, Jonas Unger*	We-S3
2491	**Radiomics-informed Deep Curriculum Learning for Breast Cancer Diagnosis** *Giacomo Nebbia, Saba Dadsetan, Dooman Arefan, Margarita L. Zuley, Jules H. Sumkin, Heng Huang, Shandong Wu*	We-S3
117	**Lung Cancer Risk Estimation with Incomplete Data: A Joint Missing Imputation Perspective** *Riqiang Gao, Yucheng Tang, Kaiwen Xu, Ho Hin Lee, Steve Deppen, Kim Sandler, Pierre Massion, Thomas A. Lasko, Yuankai Huo, Bennett A. Landman*	We-S3
234	**Deep Orthogonal Fusion: Multimodal Prognostic Biomarker Discovery Integrating Radiology, Pathology, Genomic, and Clinical Data** *Nathaniel Braman, Jacob W. H. Gordon, Emery T. Goossens, Caleb Willis, Martin C. Stumpe, Jagadish Venkataraman*	We-S3
308	**A Novel Bayesian Semi-parametric Model for Learning Heritable Imaging Traits** *Yize Zhao, Xiwen Zhao, Mansu Kim, Jingxuan Bao, Li Shen*	We-S3
680	**Combining 3D Image and Tabular Data via the Dynamic Affine Feature Map Transform** *Sebastian Pölsterl, Tom Nuno Wolf, Christian Wachinger*	We-S3
399	**Self-Supervised Longitudinal Neighbourhood Embedding** *Jiahong Ouyang, Qingyu Zhao, Ehsan Adeli, Edith V Sullivan, Adolf Pfefferbaum, Greg Zaharchuk, Kilian M. Pohl*	We-S3
306	**Intracerebral Haemorrhage Growth Prediction Based on Displacement Vector Field and Clinical Metadata** *Ting Xiao, Han Zheng, Xiaoning Wang, Xinghan Chen, Jianbo Chang, Jianhua Yao, Hong Shang, Peng Liu*	We-S3
383	**AMINN: Autoencoder-based Multiple Instance Neural Network Improves Outcome Prediction of Multifocal Liver Metastases** *Jianan Chen, Helen M. C. Cheung, Laurent Milot, Anne L. Martel*	We-S3

745	**Survival Prediction Based on Histopathology Imaging and Clinical Data: A Novel, Whole Slide CNN Approach** *Saloni Agarwal, Mohamedelfatih Eltigani Osman Abaker, Ovidiu Daescu*	We-S3
1013	**A Structural Causal Model MR Images of Multiple Sclerosis** *Jacob C. Reinhold, Aaron Carass, Jerry L. Prince*	We-S3
1439	**EMA: Auditing Data Removal from Trained Models** *Yangsibo Huang, Xiaoxiao Li, Kai Li*	We-S3
1467	**AnaXNet: Anatomy Aware Multi-label Finding Classification in Chest X-ray** *Nkechinyere N. Agu, Joy T. Wu, Hanqing Chao, Ismini Lourentzou, Arjun Sharma, Mehdi Moradi, Pingkun Yan, James Hendler*	We-S3
2496	**Attention-based Multi-scale Gated Recurrent Encoder with Novel Correlation Loss for COVID-19 Progression Prediction** *Aishik Konwer, Joseph Bae, Gagandeep Singh, Rishabh Gattu, Syed Ali, Jeremy Green, Tej Phatak, Prateek Prasanna*	We-S3
2533	**Q-space Conditioned Translation Networks for Directional Synthesis of Diffusion Weighted Images from Multi-modal Structural MRI** *Mengwei Ren, Heejong Kim, Neel Dey, Guido Gerig*	We-S4
1611	**Text2Brain: Synthesis of Brain Activation Maps from Free-form Text Query** *Gia H. Ngo, Minh Nguyen, Nancy F. Chen, Mert R. Sabuncu*	We-S4
1549	**Collaborative Image Synthesis and Disease Diagnosis for Classification of Neurodegenerative Disorders with Incomplete Multi-modal Neuroimages** *Yongsheng Pan, Yuanyuan Chen, Dinggang Shen, Yong Xia*	We-S4
96	**Over-and-Under Complete Convolutional RNN for MRI Reconstruction** *Pengfei Guo, Jeya Maria Jose Valanarasu, Puyang Wang, Jinyuan Zhou, Shanshan Jiang, Vishal M. Patel*	We-S4
181	**Synthesizing Multi-Tracer PET Images for Alzheimer's Disease Patients using a 3D Unified Anatomy-aware Cyclic Adversarial Network** *Bo Zhou, Rui Wang, Ming-Kai Chen, Adam P. Mecca, Ryan S. O'Dell, Christopher H. Van Dyck, Richard E. Carson, James S. Duncan, Chi Liu*	We-S4

210	**TransCT: Dual-path Transformer for Low Dose Computed Tomography** *Zhicheng Zhang, Lequan Yu, Xiaokun Liang, Wei Zhao, Lei Xing*	We-S4
330	**DA-VSR: Domain Adaptable Volumetric Super-Resolution For Medical Images** *Cheng Peng, S. Kevin Zhou, Rama Chellappa*	We-S4
475	**Joint Optimization of Hadamard Sensing and Reconstruction in Compressed Sensing Fluorescence Microscopy** *Alan Q. Wang, Aaron K. LaViolette, Leo Moon, Chris Xu, Mert R. Sabuncu*	We-S4
539	**Multi-Contrast MRI Super-Resolution via a Multi-Stage Integration Network** *Chun-Mei Feng, Huazhu Fu, Shuhao Yuan, Yong Xu*	We-S4
556	**Generator Versus Segmentor: Pseudo-healthy Synthesis** *Yunlong Zhang, Chenxin Li, Xin Lin, Liyan Sun, Yihong Zhuang, Yue Huang, Xinghao Ding, Xiaoqing Liu, Yizhou Yu*	We-S4
572	**Real-Time Mapping of Tissue Properties for Magnetic Resonance Fingerprinting** *Yilin Liu, Yong Chen, Pew-Thian Yap*	We-S4
582	**Estimation of High Frame Rate Digital Subtraction Angiography Sequences at Low Radiation Dose** *Nazim Haouchine, Parikshit Juvekar, Xin Xiong, Jie Luo, Tina Kapur, Rose Du, Alexandra Golby, Sarah Frisken*	We-S4
961	**Temporal Feature Fusion with Sampling Pattern Optimization for Multi-echo Gradient Echo Acquisition and Image Reconstruction** *Jinwei Zhang, Hang Zhang, Chao Li, Pascal Spincemaille, Mert R. Sabuncu, Thanh D. Nguyen, Yi Wang*	We-S4
1031	**Adaptive Squeeze-and-Shrink Image Denoising for Improving Deep Detection of Cerebral Microbleeds** *Hangfan Liu, Tanweer Rashid, Jeffrey Ware, Paul Jensen, Thomas Austin, Ilya Nasrallah, Robert Bryan, Susan Heckbert, Mohamad Habes*	We-S4
1223	**Task Transformer Network for Joint MRI Reconstruction and Super-Resolution** *Chun-Mei Feng, Yunlu Yan, Huazhu Fu, Li Chen, Yong Xu*	We-S4
1352	**Multimodal MRI Acceleration via Deep Cascading Networks with Peer-layer-wise Dense Connections** *Xiao-Xin Li, Zhijie Chen, Xin-Jie Lou, Junwei Yang, Yong Chen, Dinggang Shen*	We-S4

1471	**Rician noise estimation for 3D Magnetic Resonance Images based on Benford's Law** *Rosa Maza-Quiroga, Karl Thurnhofer-Hemsi, Domingo López-Rodríguez, Ezequiel López-Rubio*	We-S4
1539	**Deep J-Sense: Accelerated MRI Reconstruction via Unrolled Alternating Optimization** *Marius Arvinte, Sriram Vishwanath, Ahmed H. Tewfik, Jonathan I. Tamir*	We-S4
1581	**Label-Free Physics-Informed Image Sequence Reconstruction with Disentangled Spatial-Temporal Modeling** *Xiajun Jiang, Ryan Missel, Maryam Toloubidokhti, Zhiyuan Li, Omar Gharbia, John L. Sapp, Linwei Wang*	We-S4
1934	**MRI Super-Resolution Through Generative Degradation Learning** *Yao Sui, Onur Afacan, Ali Gholipour, Simon K. Warfield*	We-S4
1982	**Task-Oriented Low-Dose CT Image Denoising** *Jiajin Zhang, Hanqing Chao, Xuanang Xu, Chuang Niu, Ge Wang, Pingkun Yan*	We-S4
2483	**SA-GAN: Structure-Aware GAN for Organ-Preserving Synthetic CT Generation** *Hajar Emami, Ming Dong, Siamak P. Nejad-Davarani, Carri K. Glide-Hurst*	We-S4
527	**Controllable cardiac synthesis via disentangled anatomy arithmetic** *Spyridon Thermos, Xiao Liu, Alison O'Neil, Sotirios A. Tsaftaris*	We-S4
1906	**Deep Neural Dynamic Bayesian Networks applied to EEG sleep spindles modeling** *Carlos A. Loza, Laura L. Colgin*	We-S4
968	**Image-derived phenotype extraction for genetic discovery via unsupervised deep learning in CMR images** *Rodrigo Bonazzola, Nishant Ravikumar, Rahman Attar, Enzo Ferrante, Tanveer Syeda-Mahmood, Alejandro F. Frangi*	We-S4
112	**Towards Robust General Medical Image Segmentation** *Laura Daza, Juan C. Perez, Pablo Arbeláez*	We-S4
1012	**Targeted Gradient Descent: A Novel Method for Convolutional Neural Networks Fine-tuning and Online-learning** *Junyu Chen, Evren Asma, Chung Chan*	We-S4
1794	**Group Shift Pointwise Convolution for Volumetric Medical Image Segmentation** *Junjun He, Jin Ye, Cheng Li, Diping Song, Wanli Chen, Shanshan Wang, Lixu Gu, Yu Qiao*	We-S4

192	**UTNet: A Hybrid Transformer Architecture for Medical Image Segmentation** *Yunhe Gao, Mu Zhou, Dimitris N. Metaxas*	We-S4
299	**Federated Semi-supervised Medical Image Classification via Inter-client Relation Matching** *Quande Liu, Hongzheng Yang, Qi Dou, Pheng-Ann Heng*	We-S4
1236	**FedPerl: Semi-Supervised Peer Learning for Skin Lesion Classification** *Tariq Bdair, Nassir Navab, Shadi Albarqouni*	We-S4
1531	**Federated Whole Prostate Segmentation in MRI with Personalized Neural Architectures** *Holger R. Roth, Dong Yang, Wenqi Li, Andriy Myronenko, Wentao Zhu, Ziyue Xu, Xiaosong Wang, Daguang Xu*	We-S4
526	**Fairness in Cardiac MR Image Analysis: An Investigation of Bias Due to Data Imbalance in Deep Learning Based Segmentation** *Esther Puyol-Antón, Bram Ruijsink, Stefan K. Piechnik, Stefan Neubauer, Steffen E. Petersen, Reza Razavi, Andrew P. King*	We-S4
672	**An Interpretable Approach to Automated Severity Scoring in Pelvic Trauma** *Anna Zapaishchykova, David Dreizin, Zhaoshuo Li, Jie Ying Wu, Shahrooz Faghihroohi, Mathias Unberath*	We-S4
673	**Scalable, Axiomatic Explanations of Deep Alzheimer's Diagnosis from Heterogeneous Data** *Sebastian Pölsterl, Christina Aigner, Christian Wachinger*	We-S4
683	**SPARTA: An Integrated Stability, Discriminability, and Sparsity based Radiomic Feature Selection Approach** *Amir Reza Sadri, Sepideh Azarianpour Esfahani, Prathyush Chirra, Jacob Antunes, Pavithran Pattiam Giriprakash, Patrick Leo, Anant Madabhushi, Satish E. Viswanath*	We-S4
996	**The Power of Proxy Data and Proxy Networks for Hyper-Parameter Optimization for Medical Image Segmentation** *Vishwesh Nath, Dong Yang, Ali Hatamizadeh, Anas A. Abidin, Andriy Myronenko, Holger R. Roth, Daguang Xu*	We-S4
1298	**Towards Semantic Interpretation of Thoracic Disease and COVID-19 Diagnosis Models** *Ashkan Khakzar, Sabrina Musatian, Jonas Buchberger, Icxel Valeriano Quiroz, Nikolaus Pinger, Soroosh Baselizadeh, Seong Tae Kim, Nassir Navab*	We-S4
1508	**Using Causal Analysis for Conceptual Deep Learning Explanation** *Sumedha Singla, Stephen Wallace, Sofia Triantafillou, Kayhan Batmanghelich*	We-S4

2377	**A spherical convolutional neural network for white matter structure imaging via diffusion MRI** *Sara Sedlar, Abib Alimi, Theodore Papadopoulo, Rachid Deriche, Samuel Deslauriers-Gauthier*	We-S4
2380	**Sharpening Local Interpretable Model-agnostic Explanations for Histopathology: Improved Understandability and Reliability** *Mara Graziani, Iam Palatnik de Sousa, Marley M.B.R. Vellasco, Eduardo Costa da Silva, Henning Müller, Vincent Andrearczyk*	We-S4
2481	**PAC Bayesian Performance Guarantees for (Stochastic) Deep Networks in Medical Imaging** *Anthony Sicilia, Xingchen Zhao, Anastasia Sosnovskikh, Seong Jae Hwang*	We-S4
1009	**Learning to Predict Error for MRI Reconstruction** *Shi Hu, Nicola Pezzotti, Max Welling*	We-S4
2364	**Uncertainty Aware Deep Reinforcement Learning for Anatomical Landmark Detection in Medical Images** *James Browning, Micha Kornreich, Aubrey Chow, Jayashri Pawar, Li Zhang, Richard Herzog, Benjamin L. Odry*	We-S4
2428	**Rethinking Ultrasound Augmentation: A Physics-Inspired Approach** *Maria Tirindelli, Christine Eilers, Walter Simson, Magdalini Paschali, Mohammad Farid Azampour, Nassir Navab*	We-S4

Day 3: September 30th, 2021 (Thursday)

Session Th-S1: 08:00 - 09:30 UTC **Topics**: Computer Assisted Intervention + Microscopy + Neuroimaging
Session Th-S2: 09:30 - 11:00 UTC **Topics**: Image Segmentation + Domain Adaptation
Session Th-S3: 16:00 - 17:30 UTC **Topics**: Computer Assisted Intervention + Microscopy + Neuroimaging
Session Th-S4: 17:30 - 19:00 UTC **Topics**: Image Segmentation + Domain Adaptation

Paper ID	Title/Authors	Poster Session
559	**Image-to-Graph Convolutional Network for Deformable Shape Reconstruction from a Single Projection Image** *Megumi Nakao, Fei Tong, Mitsuhiro Nakamura, Tetsuya Matsuda*	Th-S1
975	**Class-Incremental Domain Adaptation with Smoothing and Calibration for Surgical Report Generation** *Mengya Xu, Mobarakol Islam, Chwee Ming Lim, Hongliang Ren*	Th-S1
1715	**Adversarial Domain Feature Adaptation for Bronchoscopic Depth Estimation** *Mert Asim Karaoglu, Nikolas Brasch, Marijn Stollenga, Wolfgang Wein, Nassir Navab, Federico Tombari, Alexander Ladikos*	Th-S1
1891	**2.5D Thermometry Maps for MRI-guided Tumor Ablation** *Julian Alpers, Daniel L. Reimert, Maximilian Rötzer, Thomas Gerlach, Marcel Gutberlet, Frank Wacker, Bennet Hensen, Christian Hansen*	Th-S1
2007	**Efficient Global-Local Memory for Real-time Instrument Segmentation of Robotic Surgical Video** *Jiacheng Wang, Yueming Jin, Liansheng Wang, Shuntian Cai, Pheng-Ann Heng, Jing Qin*	Th-S1
2357	**Deep Iterative 2D/3D Registration** *Srikrishna Jaganathan, Jian Wang, Anja Borsdorf, Karthik Shetty, Andreas Maier*	Th-S1
2510	**hSDB-instrument: Instrument Localization Database for Laparoscopic and Robotic Surgeries** *Jihun Yoon, Jiwon Lee, Sunghwan Heo, Hayeong Yu, Jayeon Lim, Chi Hyun Song, SeulGi Hong, Seungbum Hong, Bokyung Park, SungHyun Park, Woo Jin Hyung, Min-Kook Choi*	Th-S1

1987	**Deep Reinforcement Exemplar Learning for Annotation Refinement** *Yuexiang Li, Nanjun He, Sixiang Peng, Kai Ma, Yefeng Zheng*	Th-S1
1222	**Content-Preserving Unpaired Translation from Simulated to Realistic Ultrasound Images** *Devavrat Tomar, Lin Zhang, Tiziano Portenier, Orcun Goksel*	Th-S1
847	**Image-based Incision Detection for Topological Intraoperative 3D Model Update in Augmented Reality Assisted Laparoscopic Surgery** *Tom François, Lilian Calvet, Callyane Sève-d'Erceville, Nicolas Bourdel, Adrien Bartoli*	Th-S1
47	**GQ-GCN: Group Quadratic Graph Convolutional Network for Classification of Histopathological Images** *Zhiyang Gao, Jun Shi, Jun Wang*	Th-S1
136	**Nuclei Grading of Clear Cell Renal Cell Carcinoma in Histopathological Image by Composite High-Resolution Network** *Zeyu Gao, Jiangbo Shi, Xianli Zhang, Yang Li, Haichuan Zhang, Jialun Wu, Chunbao Wang, Deyu Meng, Chen Li*	Th-S1
407	**Hierarchical Attention Guided Framework for Multi-resolution Collaborative Whole Slide Image Segmentation** *Jiangpeng Yan, Hanbo Chen, Kang Wang, Yan Ji, Yuyao Zhu, Jingjing Li, Dong Xie, Zhe Xu, Junzhou Huang, Shuqun Cheng, Xiu Li, Jianhua Yao*	Th-S1
999	**Early Detection of Liver Fibrosis Using Graph Convolutional Networks** *Marta Wojciechowska, Stefano Malacrino, Natalia Garcia Martin, Hamid Fehri, Jens Rittscher*	Th-S1
1241	**Weakly supervised pan-cancer segmentation tool** *Marvin Lerousseau, Marion Classe, Enzo Battistella, Théo Estienne, Théophraste Henry, Amaury Leroy, Roger Sun, Maria Vakalopoulou, Jean-Yves Scoazec, Eric Deutsch, Nikos Paragios*	Th-S1
1521	**Structure-Preserving Multi-Domain Stain Color Augmentation using Style-Transfer with Disentangled Representations** *Sophia J. Wagner, Nadieh Khalili, Raghav Sharma, Melanie Boxberg, Carsten Marr, Walter de Back, Tingying Peng*	Th-S1
1608	**MetaCon: Meta Contrastive Learning for Microsatellite Instability Detection** *Yuqing Liu, Weiwen Wang, Chuan-Xian Ren, Dao-Qing Dai*	Th-S1

1802	**Generalizing Nucleus Recognition Model in Multi-source Ki67 Immunohistochemistry Stained Images via Domain-specific Pruning** *Jiatong Cai, Chenglu Zhu, Can Cui, Honglin Li, Tong Wu, Shichuan Zhang, Lin Yang*	Th-S1
1960	**Cells are Actors: Social Network Analysis with Classical ML for SOTA Histology Image Classification** *Neda Zamanitajeddin, Mostafa Jahanifar, Nasir Rajpoot*	Th-S1
2099	**Instance-based Vision Transformer for Subtyping of Papillary Renal Cell Carcinoma in Histopathological Image** *Zeyu Gao, Bangyang Hong, Xianli Zhang, Yang Li, Chang Jia, Jialun Wu, Chunbao Wang, Deyu Meng, Chen Li*	Th-S1
2177	**Hybrid Supervision Learning for Whole Slide Image Classification** *Jiahui Li, Wen Chen, Xiaodi Huang, Shuang Yang, Zhiqiang Hu, Qi Duan, Dimitris N. Metaxas, Hongsheng Li, Shaoting Zhang*	Th-S1
506	**Positive-unlabeled Learning for Cell Detection in Histopathology Images with Incomplete Annotations** *Zipei Zhao, Fengqian Pang, Zhiwen Liu, Chuyang Ye*	Th-S1
1075	**Ranking loss: A ranking-based deep neural network for colorectal cancer grading in pathology images** *Trinh Thi Le Vuong, Kyungeun Kim, Boram Song, Jin Tae Kwak*	Th-S1
1280	**Integration of Patch Features through Self-Supervised Learning and Transformer for Survival Analysis on Whole Slide Images** *Ziwang Huang, Hua Chai, Ruoqi Wang, Haitao Wang, Yuedong Yang, Hejun Wu*	Th-S1
1590	**Contrastive Learning Based Stain Normalization Across Multiple Tumor Histopathology** *Jing Ke, Yiqing Shen, Xiaoyao Liang, Dinggang Shen*	Th-S1
1659	**Semi-supervised Adversarial Learning for Stain Normalisation in Histopathology Images** *Cong Cong, Sidong Liu, Antonio Di Ieva, Maurice Pagnucco, Shlomo Berkovsky, Yang Song*	Th-S1
1670	**Learning Visual Features by Colorization for Slide-Consistent Survival Prediction from Whole Slide Images** *Lei Fan, Arcot Sowmya, Erik Meijering, Yang Song*	Th-S1
2230	**Adversarial learning of cancer tissue representations** *Adalberto Claudio Quiros, Nicolas Coudray, Anna Yeaton, Wisuwat Sunhem, Roderick Murray-Smith, Aristotelis Tsirigos, Ke Yuan*	Th-S1

502	**Semi-supervised Cell Detection in Time-lapse Images Using Temporal Consistency** *Kazuya Nishimura, Hyeonwoo Cho, Ryoma Bise*	Th-S1
505	**Cell Detection in Domain Shift Problem Using Pseudo-Cell-Position Heatmap** *Hyeonwoo Cho, Kazuya Nishimura, Kazuhide Watanabe, Ryoma Bise*	Th-S1
547	**2D Histology Meets 3D Topology: Cytoarchitectonic Brain Mapping with Graph Neural Networks** *Christian Schiffer, Katrin Amunts, Stefan Harmeling, Timo Dickscheid*	Th-S1
874	**Cell Detection from Imperfect Annotation by Pseudo Label Selection Using P-classification** *Kazuma Fujii, Daiki Suehiro, Kazuya Nishimura, Ryoma Bise*	Th-S1
1303	**CA^{2.5}-Net Nuclei Segmentation Framework with a Microscopy Cell Benchmark Collection** *Jinghan Huang, Yiqing Shen, Dinggang Shen, Jing Ke*	Th-S1
1343	**Automated Malaria Cells Detection from Blood Smears under Severe Class Imbalance via Importance-aware Balanced Group Softmax** *Canfeng Lin, Huisi Wu, Zhenkun Wen, Jing Qin*	Th-S1
565	**Multi-site Incremental Image Quality Assessment of Structural MRI via Consensus Adversarial Representation Adaptation** *Siyuan Liu, Kim-Han Thung, Weili Lin, Pew-Thian Yap*	Th-S1
901	**ACN: Adversarial Co-training Network for Brain Tumor Segmentation with Missing Modalities** *Yixin Wang, Yang Zhang, Yang Liu, Zihao Lin, Jiang Tian, Cheng Zhong, Zhongchao Shi, Jianping Fan, Zhiqiang He*	Th-S1
1203	**Covariate Correcting Networks for Identifying Associations between Socioeconomic Factors and Brain Outcomes in Children** *Hyuna Cho, Gunwoong Park, Amal Isaiah, Won Hwa Kim*	Th-S1
1341	**Symmetry-Enhanced Attention Network for Acute Ischemic Infarct Segmentation with Non–Contrast CT Images** *Kongming Liang, Kai Han, Xiuli Li, Xiaoqing Cheng, Yiming Li, Yizhou Wang, Yizhou Yu*	Th-S1
2622	**Joint PVL Detection and Manual Ability Classification using Semi-Supervised Multi-task Learning** *Jingyun Yang, Jie Hu, Yicong Li, Heng Liu, Yang Li*	Th-S1

175	**Accurate parameter estimation in fetal diffusion-weighted MRI - learning from fetal and newborn data** *Davood Karimi, Lana Vasung, Fedel Machado-Rivas, Camilo Jaimes, Shadab Khan, Ali Gholipour*	Th-S1
1547	**Deep Fiber Clustering: Anatomically Informed Unsupervised Deep Learning for Fast and Effective White Matter Parcellation** *Yuqian Chen, Chaoyi Zhang, Yang Song, Nikos Makris, Yogesh Rathi, Weidong Cai, Fan Zhang, Lauren J. O'Donnell*	Th-S1
224	**Detecting Brain State Changes by Geometric Deep Learning of Functional Dynamics on Riemannian Manifold** *Zhuobin Huang, Hongmin Cai, Tingting Dan, Yi Lin, Paul Laurienti, Guorong Wu*	Th-S1
835	**Multi-Head GAGNN: A Multi-Head Guided Attention Graph Neural Network for Modeling Spatio-Temporal Patterns of Holistic Brain Functional Networks** *Jiadong Yan, Yuzhong Chen, Shimin Yang, Shu Zhang, Mingxin Jiang, Zhongbo Zhao, Tuo Zhang, Yu Zhao, Benjamin Becker, Tianming Liu, Keith Kendrick, Xi Jiang*	Th-S1
898	**Building Dynamic Hierarchical Brain Networks and Capturing Transient Meta-states for Early Mild Cognitive Impairment Diagnosis** *Mianxin Liu, Han Zhang, Feng Shi, Dinggang Shen*	Th-S1
1171	**Recurrent Multigraph Integrator Network for Predicting the Evolution of Population-Driven Brain Connectivity Templates** *Oytun Demirbilek, Islem Rekik*	Th-S1
1347	**Efficient neural network approximation of robust PCA for automated analysis of calcium imaging data** *Seungjae Han, Eun-Seo Cho, Inkyu Park, Kijung Shin, Young-Gyu Yoon*	Th-S1
533	**LG-Net: Lesion Gate Network for Multiple Sclerosis Lesion Inpainting** *Zihao Tang, Mariano Cabezas, Dongnan Liu, Michael Barnett, Weidong Cai, Chenyu Wang*	Th-S1
1037	**Self-supervised Lesion Change Detection and Localisation in Longitudinal Multiple Sclerosis Brain Imaging** *Minh-Son To, Ian G Sarno, Chee Chong, Mark Jenkinson, Gustavo Carneiro*	Th-S1
2168	**Personalized Matching and Analysis of Cortical Folding Patterns via Patch-Based Intrinsic Brain Mapping** *Jiong Zhang, Yonggang Shi*	Th-S1

8	**Noisy Labels are Treasure: Mean-Teacher-Assisted Confident Learning for Hepatic Vessel Segmentation** *Zhe Xu, Donghuan Lu, Yixin Wang, Jie Luo, Jagadeesan Jayender, Kai Ma, Yefeng Zheng, Xiu Li*	Th-S2
198	**Multi-phase Liver Tumor Segmentation with Spatial Aggregation and Uncertain Region Inpainting** *Yue Zhang, Chengtao Peng, Liying Peng, Huimin Huang, Ruofeng Tong, Lanfen Lin, Jingsong Li, Yen-Wei Chen, Qingqing Chen, Hongjie Hu, Zhiyi Peng*	Th-S2
229	**Convolution-Free Medical Image Segmentation using Transformer Networks** *Davood Karimi, Serge Didenko Vasylechko, Ali Gholipour*	Th-S2
241	**Consistent Segmentation of Longitudinal Brain MR Images with Spatio-Temporal Constrained Networks** *Jie Wei, Feng Shi, Zhiming Cui, Yongsheng Pan, Yong Xia, Dinggang Shen*	Th-S2
256	**A Multi-Branch Hybrid Transformer Network for Corneal Endothelial Cell Segmentation** *Yinglin Zhang, Risa Higashita, Huazhu Fu, Yanwu Xu, Yang Zhang, Haofeng Liu, Jian Zhang, Jiang Liu*	Th-S2
295	**TransBTS: Multimodal Brain Tumor Segmentation Using Transformer** *Wenxuan Wang, Chen Chen, Meng Ding, Hong Yu, Sen Zha, Jiangyun Li*	Th-S2
305	**Automatic Polyp Segmentation via Multi-scale Subtraction Network** *Xiaoqi Zhao, Lihe Zhang, Huchuan Lu*	Th-S2
315	**Patch-Free 3D Medical Image Segmentation Driven by Super-Resolution Technique and Self-Supervised Guidance** *Hongyi Wang, Lanfen Lin, Hongjie Hu, Qingqing Chen, Yinhao Li, Yutaro Iwamoto, Xian-Hua Han, Yen-Wei Chen, Ruofeng Tong*	Th-S2
320	**Progressively Normalized Self-Attention Network for Video Polyp Segmentation** *Ge-Peng Ji, Yu-Cheng Chou, Deng-Ping Fan, Geng Chen, Huazhu Fu, Debesh Jha, Ling Shao*	Th-S2
423	**SGNet: Structure-aware Graph-based Network for Airway Semantic Segmentation** *Zimeng Tan, Jianjiang Feng, Jie Zhou*	Th-S2
445	**Improved Brain Lesion Segmentation with Anatomical Priors from Healthy Subjects** *Chenghao Liu, Xiangzhu Zeng, Kongming Liang, Yizhou Yu, Chuyang Ye*	Th-S2

448	**CarveMix: A Simple Data Augmentation Method for Brain Lesion Segmentation** *Xinru Zhang, Chenghao Liu, Ni Ou, Xiangzhu Zeng, Xiaoliang Xiong, Yizhou Yu, Zhiwen Liu, Chuyang Ye*	Th-S2
478	**Boundary-aware Transformers for Skin Lesion Segmentation** *Jiacheng Wang, Lan Wei, Liansheng Wang, Qichao Zhou, Lei Zhu, Jing Qin*	Th-S2
520	**BiX-NAS: Searching Efficient Bi-directional Architecture for Medical Image Segmentation** *Xinyi Wang, Tiange Xiang, Chaoyi Zhang, Yang Song, Dongnan Liu, Heng Huang, Weidong Cai*	Th-S2
524	**TEDS-Net: Enforcing Diffeomorphisms in Spatial Transformers to Guarantee Topology Preservation in Segmentations** *Madeleine K. Wyburd, Nicola K. Dinsdale, Ana I. L. Namburete, Mark Jenkinson*	Th-S2
601	**Learning Consistency- and Discrepancy-Context for 2D Organ Segmentation** *Lei Li, Sheng Lian, Zhiming Luo, Shaozi Li, Beizhan Wang, Shuo Li*	Th-S2
608	**Partial-supervised Learning for Vessel Segmentation in Ocular Images** *Yanyu Xu, Xinxing Xu, Lei Jin, Shenghua Gao, Rick Siow Mong Goh, Daniel S. W. Ting, Yong Liu*	Th-S2
678	**MT-UDA: Towards Unsupervised Cross-Modality Medical Image Segmentation with Limited Source Labels** *Ziyuan Zhao, Kaixin Xu, Shumeng Li, Zeng Zeng, Cuntai Guan*	Th-S2
710	**Context-aware virtual adversarial training for anatomically-plausible segmenation** *Ping Wang, Jizong Peng, Marco Pedersoli, Yuanfeng Zhou, Caiming Zhang, Christian Desrosiers*	Th-S2
739	**Interactive segmentation via deep learning and B-spline explicit active surfaces** *Helena Williams, João Pedrosa, Laura Cattani, Susanne Housmans, Tom Vercauteren, Jan Deprest, Jan D'hooge*	Th-S2
786	**Multi-Compound Transformer for Accurate Biomedical Image Segmentation** *Yuanfeng Ji, Ruimao Zhang, Huijie Wang, Zhen Li, Lingyun Wu, Shaoting Zhang, Ping Luo*	Th-S2
1072	**Coarse-to-fine Segmentation of Organs at Risk in Nasopharyngeal Carcinoma Radiotherapy** *Qiankun Ma, Chen Zu, Xi Wu, Jiliu Zhou, Yan Wang*	Th-S2
1098	**Joint Segmentation and Quantification of Main Coronary Vessels Using Dual-branch Multi-scale Attention Network** *Hongwei Zhang, Dong Zhang, Zhifan Gao, Heye Zhang*	Th-S2

1117	**A Spatial Guided Self-supervised Clustering Network for Medical Image Segmentation** *Euijoon Ahn, Dagan Feng, Jinman Kim*	Th-S2
1125	**Comprehensive Importance-based Selective Regularization for Continual Segmentation Across Multiple Sites** *Jingyang Zhang, Ran Gu, Guotai Wang, Lixu Gu*	Th-S2
1178	**ReSGAN: Intracranial Hemorrhage Segmentation with Residuals of Synthetic Brain CT Scans** *Miika Toikkanen, Doyoung Kwon, Minho Lee*	Th-S2
1200	**Refined Local-imbalance-based Weight for Airway Segmentation in CT** *Hao Zheng, Yulei Qin, Yun Gu, Fangfang Xie, Jiayuan Sun, Jie Yang, Guang-Zhong Yang*	Th-S2
1258	**Selective Learning from External Data for CT Image Segmentation** *Youyi Song, Lequan Yu, Baiying Lei, Kup-Sze Choi, Jing Qin*	Th-S2
1374	**MouseGAN: GAN-Based Multiple MRI Modalities Synthesis and Segmentation for Mouse Brain Structures** *Ziqi Yu, Yuting Zhai, Xiaoyang Han, Tingying Peng, Xiao-Yong Zhang*	Th-S2
1393	**Style Curriculum Learning for Robust Medical Image Segmentation** *Zhendong Liu, Van Manh, Xin Yang, Xiaoqiong Huang, Karim Lekadir, Victor Campello, Nishant Ravikumar, Alejandro F. Frangi, Dong Ni*	Th-S2
1516	**Learning to Address Intra-segment Misclassification in Retinal Imaging** *Yukun Zhou, Moucheng Xu, Yipeng Hu, Hongxiang Lin, Joseph Jacob, Pearse A. Keane, Daniel C. Alexander*	Th-S2
1545	**Flip Learning: Erase to Segment** *Yuhao Huang, Xin Yang, Yuxin Zou, Chaoyu Chen, Jian Wang, Haoran Dou, Nishant Ravikumar, Alejandro F. Frangi, Jianqiao Zhou, Dong Ni*	Th-S2
1554	**DC-Net: Dual Context Network for 2D Medical Image Segmentation** *Rongtao Xu, Changwei Wang, Shibiao Xu, Weiliang Meng, Xiaopeng Zhang*	Th-S2
1575	**Superpixel-guided Iterative Learning from Noisy Labels for Medical Image Segmentation** *Shuailin Li, Zhitong Gao, Xuming He*	Th-S2

1667	**A hybrid attention ensemble framework for zonal prostate segmentation** *Mingyan Qiu, Chenxi Zhang, Zhijian Song*	Th-S2
1688	**3D-UCaps: 3D Capsules Unet for Volumetric Image Segmentation** *Tan Nguyen, Binh-Son Hua, Ngan Le*	Th-S2
1769	**HRENet: A Hard Region Enhancement Network for Polyp Segmentation** *Yutian Shen, Xiao Jia, Max Q.-H. Meng*	Th-S2
1857	**A Novel Hybrid Convolutional Neural Network for Accurate Organ Segmentation in 3D Head and Neck CT Images** *Zijie Chen, Cheng Li, Junjun He, Jin Ye, Diping Song, Shanshan Wang, Lixu Gu, Yu Qiao*	Th-S2
1885	**TumorCP: A Simple but Effective Object-Level Data Augmentation for Tumor Segmentation** *Jiawei Yang, Yao Zhang, Yuan Liang, Yang Zhang, Lei He, Zhiqiang He*	Th-S2
1888	**Modality-aware Mutual Learning for Multi-modal Medical Image Segmentation** *Yao Zhang, Jiawei Yang, Jiang Tian, Zhongchao Shi, Cheng Zhong, Yang Zhang, Zhiqiang He*	Th-S2
2052	**CCBANet: Cascading Context and Balancing Attention for Polyp Segmentation** *Tan-Cong Nguyen, Tien-Phat Nguyen, Gia-Han Diep, Anh-Huy Tran-Dinh, Tam V. Nguyen, Minh-Triet Tran*	Th-S2
2053	**Point-Unet: A Context-aware Point-based Neural Network for Volumetric Segmentation** *Ngoc-Vuong Ho, Tan Nguyen, Gia-Han Diep, Ngan Le, Binh-Son Hua*	Th-S2
2335	**Shallow Attention Network for Polyp Segmentation** *Jun Wei, Yiwen Hu, Ruimao Zhang, Zhen Li, S. Kevin Zhou, Shuguang Cui*	Th-S2
2349	**A Line to Align: Deep Dynamic Time Warping for Retinal OCT Segmentation** *Heiko Maier, Shahrooz Faghihroohi, Nassir Navab*	Th-S2
2375	**Learnable Oriented-Derivative Network for Polyp Segmentation** *Mengjun Cheng, Zishang Kong, Guoli Song, Yonghong Tian, Yongsheng Liang, Jie Chen*	Th-S2
297	**Stain Mix-up: Unsupervised Domain Generalization for Histopathology Images** *Jia-Ren Chang, Min-Sheng Wu, Wei-Hsiang Yu, Chi-Chung Chen, Cheng-Kung Yang, Yen-Yu Lin, Chao-Yuan Yeh*	Th-S2

335	**A Unified Hyper-GAN Model for Unpaired Multi-contrast MR Image Translation** *Heran Yang, Jian Sun, Liwei Yang, Zongben Xu*	Th-S2
691	**Semantic Consistent Unsupervised Domain Adaptation for Cross-modality Medical Image Segmentation** *Guodong Zeng, Till D. Lerch, Florian Schmaranzer, Guoyan Zheng, Jürgen Burger, Kate Gerber, Moritz Tannast, Klaus Siebenrock, Nicolas Gerber*	Th-S2
692	**Anatomy of Domain Shift Impact on U-Net Layers in MRI Segmentation** *Ivan Zakazov, Boris Shirokikh, Alexey Chernyavskiy, Mikhail Belyaev*	Th-S2
1049	**Domain Composition and Attention for Unseen-Domain Generalizable Medical Image Segmentation** *Ran Gu, Jingyang Zhang, Rui Huang, Wenhui Lei, Guotai Wang, Shaoting Zhang*	Th-S2
1319	**Fully Test-time Adaptation for Image Segmentation** *Minhao Hu, Tao Song, Yujun Gu, Xiangde Luo, Jieneng Chen, Yinan Chen, Ya Zhang, Shaoting Zhang*	Th-S2
1809	**Prototypical Interaction Graph for Unsupervised Domain Adaptation in Surgical Instrument Segmentation** *Jie Liu, Xiaoqing Guo, Yixuan Yuan*	Th-S2
2128	**EndoUDA: A modality independent segmentation approach for endoscopy imaging** *Numan Celik, Sharib Ali, Soumya Gupta, Barbara Braden, Jens Rittscher*	Th-S2
81	**Semi-supervised Meta-learning with Disentanglement for Domain-generalised Medical Image Segmentation** *Xiao Liu, Spyridon Thermos, Alison O'Neil, Sotirios A. Tsaftaris*	Th-S2
936	**Balanced-MixUp for highly imbalanced medical image classification** *Adrian Galdran, Gustavo Carneiro, Miguel A. González Ballester*	Th-S3
36	**Self-Supervised Generative Adversarial Network for Depth Estimation in Laparoscopic Images** *Baoru Huang, Jian-Qing Zheng, Anh Nguyen, David Tuch, Kunal Vyas, Stamatia Giannarou, Daniel S. Elson*	Th-S3
291	**Personalized Respiratory Motion Model Using Conditional Generative Networks for MR-Guided Radiotherapy** *Liset Vázquez Romaguera, Tal Mezheritsky, Samuel Kadoury*	Th-S3

398	**Multimodal Sensing Guidewire for C-arm Navigation with Random UV Enhanced Optical Sensors using Spatio-temporal Networks** *Andrei Svecic, Gilles Soulez, Frederic Monet, Raman Kashyap, Samuel Kadoury*	Th-S3
1461	**Real-Time Rotated Convolutional Descriptor for Surgical Environments** *Adam Schmidt, Septimiu E. Salcudean*	Th-S3
1969	**EMDQ-SLAM: Real-time High-resolution Reconstruction of Soft Tissue Surface from Stereo Laparoscopy Videos** *Haoyin Zhou, Jagadeesan Jayender*	Th-S3
2106	**C-arm positioning for spinal standard projections in different intra-operative settings** *Lisa Kausch, Sarina Thomas, Holger Kunze, Tobias Norajitra, André Klein, Jan Siad El Barbari, Maxim Privalov, Sven Vetter, Andreas Mahnken, Lena Maier-Hein, Klaus H. Maier-Hein*	Th-S3
2117	**Quantitative Assessments for Ultrasound Probe Calibration** *Elvis C. S. Chen, Burton Ma, Terry M. Peters*	Th-S3
2314	**Intra-operative Update of Boundary Conditions for Patient-specific Surgical Simulation** *Eleonora Tagliabue, Marco Piccinelli, Diego Dall'Alba, Juan Verde, Micha Pfeiffer, Riccardo Marin, Stefanie Speidel, Paolo Fiorini, Stephane Cotin*	Th-S3
1042	**Using Multiple Images and Contours for Deformable 3D-2D Registration of a Preoperative CT in Laparoscopic Liver Surgery** *Yamid Espinel, Lilian Calvet, Karim Botros, Emmanuel Buc, Christophe Tilmant, Adrien Bartoli*	Th-S3
1825	**SurgeonAssist-Net: Towards Context-Aware Head-Mounted Display-Based Augmented Reality for Surgical Guidance** *Mitchell Doughty, Karan Singh, Nilesh R. Ghugre*	Th-S3
386	**Prototypical models for classifying high-risk atypical breast lesions** *Akash Parvatikar, Om Choudhary, Arvind Ramanathan, Rebekah Jenkins, Olga Navolotskaia, Gloria Carter, Akif Burak Tosun, Jeffrey L. Fine, S. Chakra Chennubhotla*	Th-S3
415	**Hierarchical Phenotyping and Graph Modeling of Spatial Architecture in Lymphoid Neoplasms** *Pingjun Chen, Muhammad Aminu, Siba El Hussein, Joseph Khoury, Jia Wu*	Th-S3

417	**A computational geometry approach for modeling neuronal fiber pathways** *S. Shailja, Angela Zhang, B.S. Manjunath*	Th-S3
771	**From Pixel to Whole Slide: Automatic Detection of Microvascular Invasion in Hepatocellular Carcinoma on Histopathological Image via Cascaded Networks** *Hanbo Chen, Kang Wang, Yuyao Zhu, Jiangpeng Yan, Yan Ji, Jingjing Li, Dong Xie, Junzhou Huang, Shuqun Cheng, Jianhua Yao*	Th-S3
828	**DT-MIL: Deformable Transformer for Multi-instance Learning on Histopathological Image** *Hang Li, Fan Yang, Yu Zhao, Xiaohan Xing, Jun Zhang, Mingxuan Gao, Junzhou Huang, Liansheng Wang, Jianhua Yao*	Th-S3
1030	**Hierarchical graph pathomic network for progression free survival prediction** *Zichen Wang, Jiayun Li, Zhufeng Pan, Wenyuan Li, Anthony Sisk, Huihui Ye, William Speier, Corey W. Arnold*	Th-S3
1076	**Increasing Consistency of Evoked Response in Thalamic Nuclei During Repetitive Burst Stimulation of Peripheral Nerve in Humans** *Jessica S. L. Vidmark, Estefania Hernandez-Martin, Terence D. Sanger*	Th-S3
2299	**MorphSet: Improving Renal Histopathology Case Assessment Through Learned Prognostic Vectors** *Pietro Antonio Cicalese, Syed Asad Rizvi, Victor Wang, Sai Patibandla, Pengyu Yuan, Samira Zare, Katharina Moos, Ibrahim Batal, Marian Clahsen-van Groningen, Candice Roufosse, Jan Becker, Chandra Mohan, Hien Van Nguyen*	Th-S3
2323	**Accounting for Dependencies in Deep Learning based Multiple Instance Learning for Whole Slide Imaging** *Andriy Myronenko, Ziyue Xu, Dong Yang, Holger R. Roth, Daguang Xu*	Th-S3
2410	**Whole Slide Images are 2D Point Clouds: Context-Aware Survival Prediction using Patch-based Graph Convolutional Networks** *Richard J. Chen, Ming Y. Lu, Muhammad Shaban, Chengkuan Chen, Tiffany Y. Chen, Drew F. K. Williamson, Faisal Mahmood*	Th-S3
2416	**Pay Attention with Focus: A Novel Learning Scheme for Classification of Whole Slide Images** *Shivam Kalra, Mohammed Adnan, Sobhan Hemati, Taher Dehkharghanian, Shahryar Rahnamayan, Hamid R. Tizhoosh*	Th-S3
421	**Instance-aware Feature Alignment for Cross-domain Cell Nuclei Detection in Histopathology Images** *Zhi Wang, Xiaoya Zhu, Lei Su, Gang Meng, Junsheng Zhang, Ao Li, Minghui Wang*	Th-S3

740	**GloFlow: Whole Slide Image Stitching from Video using Optical Flow and Global Image Alignment** *Viswesh Krishna, Anirudh Joshi, Damir Vrabac, Philip Bulterys, Eric Yang, Sebastian Fernandez-Pol, Andrew Y Ng, Pranav Rajpurkar*	Th-S3
937	**Multi-modal Multi-instance Learning using Weakly Correlated Histopathological Images and Tabular Clinical Information** *Hang Li, Fan Yang, Xiaohan Xing, Yu Zhao, Jun Zhang, Yueping Liu, Mengxue Han, Junzhou Huang, Liansheng Wang, Jianhua Yao*	Th-S3
1196	**Spatial Attention-based Deep Learning System for Breast Cancer Pathological Complete Response Prediction with Serial Histopathology Images in Multiple Stains** *Hongyi Duanmu, Shristi Bhattarai, Hongxiao Li, Chia Cheng Cheng, Fusheng Wang, George Teodoro, Emiel A. M. Janssen, Keerthi Gogineni, Preeti Subhedar, Ritu Aneja, Jun Kong*	Th-S3
2599	**A Multi-attribute Controllable Generative Model for Histopathology Image Synthesis** *Jiarong Ye, Yuan Xue, Peter Liu, Richard Zaino, Keith C. Cheng, Xiaolei Huang*	Th-S3
437	**Developmental Stage Classification of Embryos Using Two-Stream Neural Network with Linear-Chain Conditional Random Field** *Stanislav Lukyanenko, Won-Dong Jang, Donglai Wei, Robbert Struyven, Yoon Kim, Brian Leahy, Helen Yang, Alexander Rush, Dalit Ben-Yosef, Daniel Needleman, Hanspeter Pfister*	Th-S3
766	**Annotation-efficient Cell Counting** *Zuhui Wang, Zhaozheng Yin*	Th-S3
773	**A Deep Learning Bidirectional Temporal Tracking Algorithm for Automated Blood Cell Counting from Non-invasive Capillaroscopy Videos** *Luojie Huang, Gregory N. McKay, Nicholas J. Durr*	Th-S3
902	**Learning Neuron Stitching for Connectomics** *Xiaoyu Liu, Yueyi Zhang, Zhiwei Xiong, Chang Chen, Wei Huang, Xuejin Chen, Feng Wu*	Th-S3
1460	**Non-parametric vignetting correction for sparse spatial transcriptomics images** *Bovey Y Rao, Alexis M Peterson, Elena K Kandror, Stephanie Herrlinger, Attila Losonczy, Liam Paninski, Abbas H Rizvi, Erdem Varol*	Th-S3

1677	**Multi-StyleGAN: Towards Image-Based Simulation of Time-Lapse Live-Cell Microscopy** *Christoph Reich, Tim Prangemeier, Christian Wildner, Heinz Koeppl*	Th-S3
735	**Surface-Guided Image Fusion for Preserving Cortical Details in Human Brain Templates** *Sahar Ahmad, Ye Wu, Pew-Thian Yap*	Th-S3
761	**Longitudinal Correlation Analysis for Decoding Multi-Modal Brain Development** *Qingyu Zhao, Ehsan Adeli, Kilian M. Pohl*	Th-S3
1391	**Modality Completion via Gaussian Process Prior Variational Autoencoders for Multi-Modal Glioma Segmentation** *Mohammad Hamghalam, Alejandro F. Frangi, Baiying Lei, Amber L. Simpson*	Th-S3
102	**Active Cortex Tractography** *Ye Wu, Yoonmi Hong, Sahar Ahmad, Pew-Thian Yap*	Th-S3
103	**Highly Reproducible Whole Brain Parcellation in Individuals via Voxel Annotation with Fiber Clusters** *Ye Wu, Sahar Ahmad, Pew-Thian Yap*	Th-S3
1887	**Disentangled and Proportional Representation Learning for Multi-View Brain Connectomes** *Yanfu Zhang, Liang Zhan, Shandong Wu, Paul Thompson, Heng Huang*	Th-S3
2484	**Quantifying structural connectivity in brain tumor patients** *Yiran Wei, Chao Li, Stephen John Price*	Th-S3
393	**From Brain to Body: Learning Low-Frequency Respiration and Cardiac Signals from fMRI Dynamics** *Roza G. Bayrak, Colin B. Hansen, Jorge A. Salas, Nafis Ahmed, Ilwoo Lyu, Yuankai Huo, Catie Chang*	Th-S3
2376	**Estimation of spontaneous neuronal activity using homomorphic filtering** *Sukesh Kumar Das, Anil K. Sao, Bharat Biswal*	Th-S3
2515	**A Matrix Auto-encoder Framework to Align the Functional and Structural Connectivity Manifolds as Guided by Behavioral Phenotypes** *Niharika Shimona D'Souza, Mary Beth Nebel, Deana Crocetti, Joshua Robinson, Stewart Mostofsky, Archana Venkataraman*	Th-S3

334	**Topological Receptive Field Model for Human Retinotopic Mapping** *Yanshuai Tu, Duyan Ta, Zhong-Lin Lu, Yalin Wang*	Th-S3
411	**SegRecon: Learning Joint Brain Surface Reconstruction and Segmentation from Images** *Karthik Gopinath, Christian Desrosiers, Herve Lombaert*	Th-S3
1699	**SyNCCT: Synthetic Non-Contrast Images of the Brain from Single-Energy Computed Tomography Angiography** *Florian Thamm, Oliver Taubmann, Felix Denzinger, Markus Jürgens, Hendrik Ditt, Andreas Maier*	Th-S3
1822	**Local Morphological Measures Confirm that Folding within Small Partitions of the Human Cortex Follows Universal Scaling Law** *Karoline Leiberg, Yujiang Wang, Christoforos Papasavvas*	Th-S3
2116	**Exploring the Functional Difference of Gyri/Sulci via Hierarchical Interpretable Autoencoder** *Lin Zhao, Haixing Dai, Xi Jiang, Tuo Zhang, Dajiang Zhu, Tianming Liu*	Th-S3
16	**TransFuse: Fusing Transformers and CNNs for Medical Image Segmentation** *Yundong Zhang, Huiye Liu, Qiang Hu*	Th-S4
69	**Pancreas CT Segmentation by Predictive Phenotyping** *Yucheng Tang, Riqiang Gao, Hohin Lee, Qi Yang, Xin Yu, Yuyin Zhou, Shunxing Bao, Yuankai Huo, Jeffrey Spraggins, Jack Virostko, Zhoubing Xu, Bennett A. Landman*	Th-S4
116	**Medical Transformer: Gated Axial-Attention for Medical Image Segmentation** *Jeya Maria Jose Valanarasu, Poojan Oza, Ilker Hacihaliloglu, Vishal M. Patel*	Th-S4
180	**Anatomy-Constrained Contrastive Learning for Synthetic Segmentation without Ground-truth** *Bo Zhou, Chi Liu, James S. Duncan*	Th-S4
188	**Study Group Learning: Improving Retinal Vessel Segmentation Trained with Noisy Labels** *Yuqian Zhou, Hanchao Yu, Humphrey Shi*	Th-S4
436	**NucMM Dataset: 3D Neuronal Nuclei Instance Segmentation at Sub-Cubic Millimeter Scale** *Zudi Lin, Donglai Wei, Mariela D. Petkova, Yuelong Wu, Zergham Ahmed, Krishna Swaroop K, Silin Zou, Nils Wendt, Jonathan Boulanger-Weill, Xueying Wang, Nagaraju Dhanyasi, Ignacio Arganda-Carreras, Florian Engert, Jeff Lichtman, Hanspeter Pfister*	Th-S4

438	**AxonEM Dataset: 3D Axon Instance Segmentation of Brain Cortical Regions** *Donglai Wei, Kisuk Lee, Hanyu Li, Ran Lu, J. Alexander Bae, Zequan Liu, Lifu Zhang, Márcia dos Santos, Zudi Lin, Thomas Uram, Xueying Wang, Ignacio Arganda-Carreras, Brian Matejek, Narayanan Kasthuri, Jeff Lichtman, Hanspeter Pfister*	Th-S4
481	**A Topological-Attention ConvLSTM Network and Its Application to EM Images** *Jiaqi Yang, Xiaoling Hu, Chao Chen, Chialing Tsai*	Th-S4
621	**Unsupervised Network Learning for Cell Segmentation** *Liang Han, Zhaozheng Yin*	Th-S4
817	**kCBAC-Net: Deeply Supervised Complete Bipartite Networks with Asymmetric Convolutions for Medical Image Segmentation** *Pengfei Gu, Hao Zheng, Yizhe Zhang, Chaoli Wang, Danny Z. Chen*	Th-S4
822	**Multi-frame Attention Network for Left Ventricle Segmentation in 3D Echocardiography** *Shawn S. Ahn, Kevinminh Ta, Stephanie Thorn, Jonathan Langdon, Albert J. Sinusas, James S. Duncan*	Th-S4
1305	**Projective Skip-Connections for Segmentation Along a Subset of Dimensions in Retinal OCT** *Dmitrii Lachinov, Philipp Seeböck, Julia Mai, Felix Goldbach, Ursula Schmidt-Erfurth, Hrvoje Bogunovic*	Th-S4
1400	**Towards Efficient Human-Machine Collaboration: Real-Time Correction Effort Prediction for Ultrasound Data Acquisition** *Yukun Ding, Dewen Zeng, Mingqi Li, Hongwen Fei, Haiyun Yuan, Meiping Huang, Jian Zhuang, Yiyu Shi*	Th-S4
1418	**Residual Feedback Network for Breast Lesion Segmentation in Ultrasound Image** *Ke Wang, Shujun Liang, Yu Zhang*	Th-S4
1556	**LIFE: A Generalizable Autodidactic Pipeline for 3D OCT-A Vessel Segmentation** *Dewei Hu, Can Cui, Hao Li, Kathleen E. Larson, Yuankai K. Tao, Ipek Oguz*	Th-S4
1953	**Hybrid graph convolutional neural networks for anatomical segmentation** *Nicolás Gaggion, Lucas Mansilla, Diego Milone, Enzo Ferrante*	Th-S4

2031	**RibSeg Dataset and Strong Point Cloud Baselines for Rib Segmentation from CT Scans** *Jiancheng Yang, Shixuan Gu, Donglai Wei, Hanspeter Pfister, Bingbing Ni*	Th-S4
2040	**Hierarchical Self-Supervised Learning for Medical Image Segmentation Based on Multi-Domain Data Aggregation** *Hao Zheng, Jun Han, Hongxiao Wang, Lin Yang, Zhuo Zhao, Chaoli Wang, Danny Z. Chen*	Th-S4
2064	**TUN-Det: A Novel Network for Thyroid Ultrasound Nodule Detection** *Atefeh Shahroudnejad, Xuebin Qin, Sharanya Balachandran, Masood Dehghan, Dornoosh Zonoobi, Jacob Jaremko, Jeevesh Kapur, Martin Jagersand, Michelle Noga, Kumaradevan Punithakumar*	Th-S4
2115	**On the relationship between calibrated predictors and unbiased volume estimation** *Teodora Popordanoska, Jeroen Bertels, Dirk Vandermeulen, Frederik Maes, Matthew B. Blaschko*	Th-S4
2142	**High-resolution segmentation of lumbar vertebrae from conventional thick slice MRI** *Federico Turella, Gustav Bredell, Alexander Okupnik, Sebastiano Caprara, Dimitri Graf, Reto Sutter, Ender Konukoglu*	Th-S4
2447	**LambdaUNet: 2.5D Stroke Lesion Segmentation of Diffusion-weighted MR Images** *Yanglan Ou, Ye Yuan, Xiaolei Huang, Kelvin Wong, John Volpi, James Z. Wang, Stephen T. C. Wong*	Th-S4
537	**CoTr: Efficiently Bridging CNN and Transformer for 3D Medical Image Segmentation** *Yutong Xie, Jianpeng Zhang, Chunhua Shen, Yong Xia*	Th-S4
2051	**Federated Contrastive Learning for Volumetric Medical Image Segmentation** *Yawen Wu, Dewen Zeng, Zhepeng Wang, Yiyu Shi, Jingtong Hu*	Th-S4
969	**Orthogonal Ensemble Networks for Biomedical Image Segmentation** *Agostina J. Larrazabal, César Martínez, Jose Dolz, Enzo Ferrante*	Th-S4
663	**Quality-Aware Memory Network for Interactive Volumetric Image Segmentation** *Tianfei Zhou, Liulei Li, Gustav Bredell, Jianwu Li, Ender Konukoglu*	Th-S4
521	**Multi-Task, Multi-Domain Deep Segmentation with Shared Representations and Contrastive Regularization for Sparse Pediatric Datasets** *Arnaud Boutillon, Pierre-Henri Conze, Christelle Pons, Valerie Burdin, Bhushan Borotikar*	Th-S4

2511	**Co-Generation and Segmentation for Generalized Surgical Instrument Segmentation on Unlabelled Data** *Megha Kalia, Tajwar Abrar Aleef, Nassir Navab, Peter Black, Septimiu E. Salcudean*	Th-S4
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1751	**OLVA: Optimal Latent Vector Alignment for Unsupervised Domain Adaptation in Medical Image Segmentation** *Dawood Al Chanti, Diana Mateus*	Th-S4
1924	**Unsupervised Domain Adaptation for Small Bowel Segmentation using Disentangled Representation** *Seung Yeon Shin, Sungwon Lee, Ronald M. Summers*	Th-S4
1957	**Data-driven mapping between functional connectomes using optimal transport** *Javid Dadashkarimi, Amin Karbasi, Dustin Scheinost*	Th-S4
2243	**Style Transfer Using Generative Adversarial Networks for Multi-Site MRI Harmonization** *Mengting Liu, Piyush Maiti, Sophia Thomopoulos, Alyssa Zhu, Yaqiong Chai, Hosung Kim, Neda Jahanshad*	Th-S4