

MICCAI 2021 – Poster Presentation Schedule - Final

Tuesday, September 28th, 2021

Session Tue-S1: Computer Assisted Intervention (CAI) + Clinical Applications (CApp), 08:00 - 09:30 UTC

Session Tue-S2: Label-efficient Learning (ML) + Image Registration (Reg), 09:30 – 11:00 UTC

Session Tue-S3: Computer Assisted Intervention (CAI) + Clinical Applications (CApp), 16:30 to 18:00 UTC

Session Tue-S4: Label-efficient Learning (ML) + Image Registration (Reg), 18:00 to 19:30 UTC

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Phase-independent Latent Representation for Cardiac Shape Analysis <i>Josquin Harrison, Marco Lorenzi, Benoit Legghe, Xavier Iriart, Hubert Cochet, Maxime Sermesant</i>	Tue-S1	Tue-S1&3-CApp-R001	A
Transformer Network for Significant Stenosis Detection in CCTA of Coronary Arteries <i>Xinghua Ma, Gongning Luo, Wei Wang, Kuanquan Wang</i>	Tue-S1	Tue-S1&3-CApp-R001	C
Cardiac Transmembrane Potential Imaging with GCN Based Iterative Soft Threshold Network <i>Lide Mu, Huafeng Liu</i>	Tue-S1	Tue-S1&3-CApp-R002	B
AtrialGeneral: Domain Generalization for Left Atrial Segmentation of Multi-Center LGE MRIs <i>Lei Li, Veronika A. Zimmer, Julia A. Schnabel, Xiahai Zhuang</i>	Tue-S1	Tue-S1&3-CApp-R002	D
Training Automatic View Planner for Cardiac MR Imaging via Self-Supervision by Spatial Relationship between Views <i>Dong Wei, Kai Ma, Yefeng Zheng</i>	Tue-S1	Tue-S1&3-CApp-R002	E
Self-adversarial Learning for Detection of Clustered Microcalcifications in Mammograms <i>Xi Ouyang, Jifei Che, Qitian Chen, Zheren Li, Yiqiang Zhan, Zhong Xue, Qian Wang, Jie-Zhi Cheng, Dinggang Shen</i>	Tue-S1	Tue-S1&3-CApp-R003	A
Synthesis of Contrast-enhanced Spectral Mammograms from Low-energy Mammograms Using cGAN-Based Synthesis Network <i>Yanyun Jiang, Yuanjie Zheng, Weikuan Jia, Sutao Song, Yanhui Ding</i>	Tue-S1	Tue-S1&3-CApp-R003	D
Supervised Contrastive Pre-Training for Mammographic Triage Screening Models <i>Zhenjie Cao, Zhicheng Yang, Yuxing Tang, Yanbo Zhang, Mei Han, Jing Xiao, Jie Ma, Peng Chang</i>	Tue-S1	Tue-S1&3-CApp-R004	A

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Domain Generalization for Mammography Detection via Multi-style and Multi-view Contrastive Learning <i>Zheren Li, Zhiming Cui, Sheng Wang, Yuji Qi, Xi Ouyang, Qitian Chen, Yuezhi Yang, Zhong Xue, Dinggang Shen, Jie-Zhi Cheng</i>	Tue-S1	Tue-S1&3-CApp-R004	D
Colorectal Polyp Classification from White-light Colonoscopy Images via Domain Alignment <i>Qin Wang, Hui Che, Weizhen Ding, Li Xiang, Guanbin Li, Zhen Li, Shuguang Cui</i>	Tue-S1	Tue-S1&3-CApp-R005	A
Learning-based attenuation quantification in abdominal ultrasound <i>Myeong-Gee Kim, SeokHwan Oh, Youngmin Kim, Hyuksool Kwon, Hyeon-Min Bae</i>	Tue-S1	Tue-S1&3-CApp-R005	C
EllipseNet: Anchor-Free Ellipse Detection for Automatic Cardiac Biometrics in Fetal Echocardiography <i>Jiancong Chen, Yingying Zhang, Jingyi Wang, Xiaoxue Zhou, Yihua He, Tong Zhang</i>	Tue-S1	Tue-S1&3-CApp-R006	A
Learning Spatiotemporal Probabilistic Atlas of Fetal Brains with Anatomically Constrained Registration Network <i>Yuchen Pei, Liangjun Chen, Fenqiang Zhao, Zhengwang Wu, Tao Zhong, Ya Wang, Changan Chen, Li Wang, He Zhang, Lisheng Wang, Gang Li</i>	Tue-S1	Tue-S1&3-CApp-R006	C
Perceptual Quality Assessment of Chest Radiograph <i>Mengda Guan, Yuanyuan Lyu, Wanyue Cao, Xingwang Wu, Jingjing Lu, S. Kevin Zhou</i>	Tue-S1	Tue-S1&3-CApp-R007	A
Pristine annotations-based multi-modal trained artificial intelligence solution to triage chest X-Ray for COVID-19 <i>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</i>	Tue-S1	Tue-S1&3-CApp-R007	D
Longitudinal Quantitative Assessment of COVID-19 Infection Progression from Chest CTs <i>Seong Tae Kim, Leili Goli, Magdalini Paschali, Ashkan Khakzar, Matthias Keicher, Tobias Czempiel, Egon Burian, Rickmer Braren, Nassir Navab, Thomas Wendler</i>	Tue-S1	Tue-S1&3-CApp-R008	A
M-SEAM-NAM: Multi-instance Self-supervised Equivalent Attention Mechanism with Neighborhood Affinity Module for Double Weakly Supervised Segmentation of COVID-19 <i>Wen Tang, Han Kang, Ying Cao, Pengxin Yu, Hu Han, Rongguo Zhang, Kuan Chen</i>	Tue-S1	Tue-S1&3-CApp-R008	D
Beyond COVID-19 Diagnosis: Prognosis with Hierarchical Graph Representation Learning <i>Chen Liu, Jinze Cui, Dailin Gan, Guosheng Yin</i>	Tue-S1	Tue-S1&3-CApp-R009	B

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Leveraging Auxiliary Information from EMR for Weakly Supervised Pulmonary Nodule Detection <i>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</i>	Tue-S1	Tue-S1&3-CApp-R009	D
Renal Cell Carcinoma Classification from Vascular Morphology <i>Rudan Xiao, Eric Debreuve, Damien Ambrosetti, Xavier Descombes</i>	Tue-S1	Tue-S1&3-CApp-R009	E
A Location Constrained Dual-branch Network for Reliable Diagnosis of Jaw Tumors and Cysts <i>Jiacong Hu, Zunlei Feng, Yining Mao, Jie Lei, Dan Yu, Mingli Song</i>	Tue-S1	Tue-S1&3-CApp-R010	A
Incorporating Isodose Lines and Gradient Information via Multi-task Learning for Dose Prediction in Radiotherapy <i>Shuai Tan, Pin Tang, Xingchen Peng, Jianghong Xiao, Chen Zu, Xi Wu, Jiliu Zhou, Yan Wang</i>	Tue-S1	Tue-S1&3-CApp-R010	D
End-to-end Ugly Duckling Sign Detection for Melanoma Identification with Transformers <i>Zhen Yu, Victoria Mar, Anders Eriksson, Shakes Chandra, Paul Bonnington, Lei Zhang, Zongyuan Ge</i>	Tue-S1	Tue-S1&3-CApp-R011	B
Multi-level Relationship Capture Network for Automated Skin Lesion Recognition <i>Zihao Liu, Ruiqin Xiong, Tingting Jiang</i>	Tue-S1	Tue-S1&3-CApp-R011	D
Automatic Severity Rating for Improved Psoriasis Treatment <i>Xian Wu, Yangtian Yan, Shuang Zhao, Yehong Kuang, Shen Ge, Kai Wang, Xiang Chen</i>	Tue-S1	Tue-S1&3-CApp-R011	E
I-SECRET: Importance-guided fundus image enhancement via semi-supervised contrastive constraining <i>Pujin Cheng, Li Lin, Yijin Huang, Junyan Lyu, Xiaoying Tang</i>	Tue-S1	Tue-S1&3-CApp-R012	B
Relational Subsets Knowledge Distillation for Long-tailed Retinal Diseases Recognition <i>Lie Ju, Xin Wang, Lin Wang, Tongliang Liu, Xin Zhao, Tom Drummond, Dwarikanath Mahapatra, Zongyuan Ge</i>	Tue-S1	Tue-S1&3-CApp-R012	D
Vessel Width Estimation via Convolutional Regression <i>Rui-Qi Li, Gui-Bin Bian, Xiao-Hu Zhou, Xiaoliang Xie, Zhen-Liang Ni, Yan-Jie Zhou, Yuhan Wang, Zengguang Hou</i>	Tue-S1	Tue-S1&3-CApp-R012	E
MIL-VT: Multiple Instance Learning Enhanced Vision Transformer for Fundus Image Classification <i>Shuang Yu, Kai Ma, Qi Bi, Cheng Bian, Munan Ning, Nanjun He, Yuexiang Li, Hanruo Liu, Yefeng Zheng</i>	Tue-S1	Tue-S1&3-CApp-R013	B

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Distinguishing Differences Matters: Focal Contrastive Network for Peripheral Anterior Synechia Recognition <i>Yifan Yang, Huihui Fang, Qing Du, Fei Li, Xiulan Zhang, Mingkui Tan, Yanwu Xu</i>	Tue-S1	Tue-S1&3-CApp-R013	D
CataNet: Predicting remaining cataract surgery duration <i>Andrés Marafioti, Michel Hayoz, Mathias Gallardo, Pablo Márquez Neila, Sebastian Wolf, Martin Zinkernagel, Raphael Sznitman</i>	Tue-S1	Tue-S1&3-CApp-R013	E
Simultaneous Alignment and Surface Regression Using Hybrid 2D-3D Networks for 3D Coherent Layer Segmentation of Retina OCT Images <i>Hong Liu, Dong Wei, Donghuan Lu, Yuexiang Li, Kai Ma, Liansheng Wang, Yefeng Zheng</i>	Tue-S1	Tue-S1&3-CApp-R014	B
BSDA-Net: A Boundary Shape and Distance Aware Joint Learning Framework for Segmenting and Classifying OCTA Images <i>Li Lin, Zhonghua Wang, Jiewei Wu, Yijin Huang, Junyan Lyu, Pujin Cheng, Jiong Wu, Xiaoying Tang</i>	Tue-S1	Tue-S1&3-CApp-R014	D
Cross-domain Depth Estimation Network for 3D Vessel Reconstruction in OCT Angiography <i>Shuai Yu, Yonghuai Liu, Jiong Zhang, Jianyang Xie, Yalin Zheng, Jiang Liu, Yitian Zhao</i>	Tue-S1	Tue-S1&3-CApp-R014	E
Trans-SVNet: Accurate Phase Recognition from Surgical Videos via Hybrid Embedding Aggregation Transformer <i>Xiaojie Gao, Yueming Jin, Yonghao Long, Qi Dou, Pheng-Ann Heng</i>	Tue-S1	Tue-S1&3-CAI-R015	B
Surgical Workflow Anticipation using Instrument Interaction <i>Kun Yuan, Matthew Holden, Shijian Gao, Won-Sook Lee</i>	Tue-S1	Tue-S1&3-CAI-R015	D
OperA: Attention-Regularized Transformers for Surgical Phase Recognition <i>Tobias Czempiel, Magdalini Paschali, Daniel Ostler, Seong Tae Kim, Benjamin Busam, Nassir Navab</i>	Tue-S1	Tue-S1&3-CAI-R015	E
Patient-specific virtual spine straightening and vertebra inpainting: An automatic framework for osteoplasty planning <i>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</i>	Tue-S1	Tue-S1&3-CAI-R016	A
A new Approach to Orthopedic Surgery Planning using Deep Reinforcement Learning and Simulation <i>Joëlle Ackermann, Matthias Wieland, Armando Hoch, Reinhold Ganz, Jess G. Snedeker, Martin R. Oswald, Marc Pollefeys, Patrick O. Zingg, Hooman Esfandiari, Philipp Fürnstahl</i>	Tue-S1	Tue-S1&3-CAI-R016	D

Title/Authors	Session	Room number in SpatialChat	Spot in Room
A self-supervised deep framework for reference bony shape estimation in orthognathic surgical planning <i>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</i>	Tue-S1	Tue-S1&3-CAI-R017	A
Acoustic-based Spatio-temporal Learning for Press-fit Evaluation of Femoral Stem Implants <i>Matthias Seibold, Armando Hoch, Daniel Suter, Mazda Farshad, Patrick O. Zingg, Nassir Navab, Philipp Fürnstahl</i>	Tue-S1	Tue-S1&3-CAI-R017	D
Surgical Instruction Generation with Transformers <i>Jinglu Zhang, Yinyu Nie, Jian Chang, Jian Jun Zhang</i>	Tue-S1	Tue-S1&3-CAI-R018	A
Facial and cochlear nerves characterization using deep reinforcement learning for landmark detection <i>Paula López Diez, Josefine Vilsbøll Sundgaard, François Patou, Jan Margeta, Rasmus Reinhold Paulsen</i>	Tue-S1	Tue-S1&3-CAI-R018	C
Task Fingerprinting for Meta Learning in Biomedical Image Analysis <i>Patrick Godau, Lena Maier-Hein</i>	Tue-S1	Tue-S1&3-CAI-R019	A
E-DSSR: Efficient Dynamic Surgical Scene Reconstruction with Transformer-based Stereoscopic Depth Perception <i>Yonghao Long, Zhaoshuo Li, Chi Hang Yee, Chi Fai Ng, Russell H. Taylor, Mathias Unberath, Qi Dou</i>	Tue-S1	Tue-S1&3-CAI-R019	C
A Deep Discontinuity-Preserving Image Registration Network <i>Xiang Chen, Yan Xia, Nishant Ravikumar, Alejandro F. Frangi</i>	Tue-S2	Tue-S2&4-Reg-R020	A
Spectral Embedding Approximation and Descriptor Learning for Craniofacial Volumetric Image Correspondence <i>Diya Sun, Yungeng Zhang, Yuru Pei, Tianmin Xu, Hongbin Zha</i>	Tue-S2	Tue-S2&4-Reg-R020	D
Atlas-Based Segmentation of Intracochlear Anatomy in Metal Artifact Affected CT Images of the Ear with Co-trained Deep Neural Networks <i>Jianing Wang, Dingjie Su, Yubo Fan, Srijata Chakravorti, Jack H. Noble, Benoit M. Dawant</i>	Tue-S2	Tue-S2&4-Reg-R021	A
4D-Foot: A fully automated pipeline of four-dimensional analysis of the foot bones using bi-plane X-ray video and CT <i>Shuntaro Mizoe, Yoshito Otake, Takuma Miyamoto, Mazen Soufi, Satoko Nakao, Yasuhito Tanaka, Yoshinobu Sato</i>	Tue-S2	Tue-S2&4-Reg-R021	D

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Conditional Deformable Image Registration with Convolutional Neural Network <i>Tony C. W. Mok, Albert C. S. Chung</i>	Tue-S2	Tue-S2&4-Reg-R022	A
Learning Dual Transformer Network for Diffeomorphic Registration <i>Yungeng Zhang, Yuru Pei, Hongbin Zha</i>	Tue-S2	Tue-S2&4-Reg-R022	C
A Deep Network for Joint Registration and Parcellation of Cortical Surfaces <i>Fenqiang Zhao, Zhengwang Wu, Li Wang, Weili Lin, Shunren Xia, Gang Li</i>	Tue-S2	Tue-S2&4-Reg-R023	A
Medical Image Registration Based on Uncoupled Learning and Accumulative Enhancement <i>Yucheng Shu, Hao Wang, Bin Xiao, Xiuli Bi, Weisheng Li</i>	Tue-S2	Tue-S2&4-Reg-R023	D
3D Semantic Mapping from Arthroscopy using Out-of-distribution Pose and Depth and In-distribution Segmentation Training <i>Yaqub Jonmohamadi, Shahnewaz Ali, Fengbei Liu, Jonathan Roberts, Ross Crawford, Gustavo Carneiro, Ajay K. Pandey</i>	Tue-S2	Tue-S2&4-Reg+ML-R024	B
Functional Magnetic Resonance Imaging data augmentation through conditional ICA <i>Badr Tajini, Hugo Richard, Bertrand Thirion</i>	Tue-S2	Tue-S2&4-Reg+ML-R024	D
Few-Shot Domain Adaptation with Polymorphic Transformers <i>Shaohua Li, Xiuchao Sui, Jie Fu, Huazhu Fu, Xiangde Luo, Yangqin Feng, Xinxing Xu, Yong Liu, Daniel S. W. Ting, Rick Siow Mong Goh</i>	Tue-S2	Tue-S2&4-Reg+ML-R024	E
Order-Guided Disentangled Representation Learning for Ulcerative Colitis Classification with Limited Labels <i>Shota Harada, Ryoma Bise, Hideaki Hayashi, Kiyohito Tanaka, Seiichi Uchida</i>	Tue-S2	Tue-S2&4-Reg+ML-R025	B
Neighbor Matching for Semi-supervised Learning <i>Renzhen Wang, Yichen Wu, Huai Chen, Lisheng Wang, Deyu Meng</i>	Tue-S2	Tue-S2&4-Reg+ML-R025	D
Efficient Semi-Supervised Gross Target Volume of Nasopharyngeal Carcinoma Segmentation via Uncertainty Rectified Pyramid Consistency <i>Xiangde Luo, Wenjun Liao, Jieneng Chen, Tao Song, Yinan Chen, Shichuan Zhang, Nianyong Chen, Guotai Wang, Shaoting Zhang</i>	Tue-S2	Tue-S2&4-Reg+ML-R025	E
USCL: Pretraining Deep Ultrasound Image Diagnosis Model through Video Contrastive Representation Learning <i>Yixiong Chen, Chunhui Zhang, Li Liu, Cheng Feng, Changfeng Dong, Yongfang Luo, Xiang Wan</i>	Tue-S2	Tue-S2&4-Reg+ML-R026	B

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Weakly-Supervised Ultrasound Video Segmentation with Minimal Annotations <i>Ruiheng Chang, Dong Wang, Haiyan Guo, Jia Ding, Liwei Wang</i>	Tue-S2	Tue-S2&4-Reg+ML-R026	D
Reciprocal Learning for Semi-supervised Segmentation <i>Xiangyun Zeng, Rian Huang, Yuming Zhong, Dong Sun, Chu Han, Di Lin, Dong Ni, Yi Wang</i>	Tue-S2	Tue-S2&4-Reg+ML-R026	E
Duo-SegNet: Adversarial Dual-Views for Semi-Supervised Medical Image Segmentation <i>Himashi Peiris, Zhaolin Chen, Gary Egan, Mehrtash Harandi</i>	Tue-S2	Tue-S2&4-ML-R027	B
Semi-Supervised Unpaired Multi-Modal Learning for Label-Efficient Medical Image Segmentation <i>Lei Zhu, Kaiyuan Yang, Meihui Zhang, Ling Ling Chan, Teck Khim Ng, Beng Chin Ooi</i>	Tue-S2	Tue-S2&4-ML-R027	D
Scalable joint detection and segmentation of surgical instruments with weak supervision <i>Ricardo Sanchez-Matilla, Maria Robu, Imanol Luengo, Danail Stoyanov</i>	Tue-S2	Tue-S2&4-ML-R027	E
Semi-supervised Left Atrium Segmentation with Mutual Consistency Training <i>Yicheng Wu, Minfeng Xu, Zongyuan Ge, Jianfei Cai, Lei Zhang</i>	Tue-S2	Tue-S2&4-ML-R028	B
3D Graph-S2Net: Shape-Aware Self-Ensembling Network for Semi-Supervised Segmentation with Bilateral Graph Convolution <i>Huimin Huang, Nan Zhou, Lanfen Lin, Hongjie Hu, Yutaro Iwamoto, Xian-Hua Han, Yen-Wei Chen, Ruofeng Tong</i>	Tue-S2	Tue-S2&4-ML-R028	D
Tripled-uncertainty Guided Mean Teacher model for Semi-supervised Medical Image Segmentation <i>Kaiping Wang, Bo Zhan, Chen Zu, Xi Wu, Jiliu Zhou, Luping Zhou, Yan Wang</i>	Tue-S2	Tue-S2&4-ML-R028	E
Inter-Regional High-level Relation Learning from Functional Connectivity via Self-Supervision <i>Wonsik Jung, Da-Woon Heo, Eunjin Jeon, Jaein Lee, Heung-Il Suk</i>	Tue-S2	Tue-S2&4-ML-R029	B
Contrastive Learning of Relative Position Regression for One-Shot Object Localization in 3D Medical Images <i>Wenhui Lei, Wei Xu, Ran Gu, Hao Fu, Shaoting Zhang, Shichuan Zhang, Guotai Wang</i>	Tue-S2	Tue-S2&4-ML-R029	D
GKD: Semi-supervised Graph Knowledge Distillation for Graph-Independent Inference <i>Mahsa Ghorbani, Mojtaba Bahrami, Anees Kazi, Mahdieh Soleymani Baghshah, Hamid R. Rabiee, Nassir Navab</i>	Tue-S2	Tue-S2&4-ML-R029	E
Longitudinal self-supervision to disentangle inter-patient variability from disease progression <i>Raphaël Couronné, Paul Vernhet, Stanley Durrleman</i>	Tue-S2	Tue-S2&4-ML-R030	A

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Imbalance-Aware Self-Supervised Learning for 3D Radiomic Representations <i>Hongwei Li, Fei-Fei Xue, Krishna Chaitanya, Shengda Luo, Ivan Ezhov, Benedikt Wiestler, Jianguo Zhang, Bjoern Menze</i>	Tue-S2	Tue-S2&4-ML-R030	D
SpineGEM: A Hybrid-Supervised Model Generation Strategy Enabling Accurate Spine Disease Classification with a Small Training Dataset <i>Xihe Kuang, Jason Pui Yin Cheung, Xiaowei Ding, Teng Zhang</i>	Tue-S2	Tue-S2&4-ML-R031	B
One-Shot Medical Landmark Detection <i>Qingsong Yao, Quan Quan, Li Xiao, S. Kevin Zhou</i>	Tue-S2	Tue-S2&4-ML-R031	D
Implicit Neural Distance Representation for Unsupervised and Supervised Classification of Complex Anatomies <i>Kristine Aavild Juhl, Xabier Morales, Ole de Backer, Oscar Camara, Rasmus Reinhold Paulsen</i>	Tue-S2	Tue-S2&4-ML-R031	E
Self-Supervised Correction Learning for Semi-Supervised Biomedical Image Segmentation <i>Ruifei Zhang, Sishuo Liu, Yizhou Yu, Guanbin Li</i>	Tue-S2	Tue-S2&4-ML-R032	A
Dual-Consistency Semi-Supervised Learning with Uncertainty Quantification for COVID-19 Lesion Segmentation from CT Images <i>Yanwen Li, Luyang Luo, Huangjing Lin, Hao Chen, Pheng-Ann Heng</i>	Tue-S2	Tue-S2&4-ML-R032	C
Sli2Vol: Annotate a 3D Volume from a Single Slice with Self-Supervised Learning <i>Pak-Hei Yeung, Ana I. L. Namburete, Weidi Xie</i>	Tue-S2	Tue-S2&4-ML-R033	B
SAR: Scale-Aware Restoration Learning for 3D Tumor Segmentation <i>Xiaoman Zhang, Shixiang Feng, Yuhang Zhou, Ya Zhang, Yanfeng Wang</i>	Tue-S2	Tue-S2&4-ML-R033	D
Unsupervised Contrastive Learning of Radiomics and Deep Features for Label-Efficient Tumor Classification <i>Ziteng Zhao, Guanyu Yang</i>	Tue-S2	Tue-S2&4-ML-R033	E
TransPath: Transformer-based Self-supervised Learning for Histopathological Image Classification <i>Xiyue Wang, Sen Yang, Jun Zhang, Minghui Wang, Jing Zhang, Junzhou Huang, Wei Yang, Xiao Han</i>	Tue-S2	Tue-S2&4-ML-R034	B
SSLP: Spatial Guided Self-supervised Learning on Pathological Images <i>Jiajun Li, Tiancheng Lin, Yi Xu</i>	Tue-S2	Tue-S2&4-ML-R034	D
Self-supervised visual representation learning for histopathological images <i>Pengshuai Yang, Zhiwei Hong, Xiaoxu Yin, Chengzhan Zhu, Rui Jiang</i>	Tue-S2	Tue-S2&4-ML-R034	E

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Efficient and Generic Interactive Segmentation Framework to Correct Mispredictions during Clinical Evaluation of Medical Images <i>Bhavani Sambaturu, Ashutosh Gupta, C.V. Jawahar, Chetan Arora</i>	Tue-S2	Tue-S2&4-ML-R035	A
OXnet: Deep Omni-supervised Thoracic Disease Detection from Chest X-rays <i>Luyang Luo, Hao Chen, Yanning Zhou, Huangjing Lin, Pheng-Ann Heng</i>	Tue-S2	Tue-S2&4-ML-R035	D
Label-set Loss Functions for Partial Supervision: Application to Fetal Brain 3D MRI Parcellation <i>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</i>	Tue-S2	Tue-S2&4-ML-R036	A
CPNet: Cycle Prototype Network for Weakly-supervised 3D Renal Compartments Segmentation on CT Images <i>Song Wang, Yuting He, Youyong Kong, Xiaomei Zhu, Shaobo Zhang, Pengfei Shao, Jean-Louis Dillenseger, Jean-Louis Coatrieux, Shuo Li, Guanyu Yang</i>	Tue-S2	Tue-S2&4-ML-R036	D
Learning with Noise: Mask-guided Attention Model for Weakly Supervised Nuclei Segmentation <i>Ruoyu Guo, Maurice Pagnucco, Yang Song</i>	Tue-S2	Tue-S2&4-ML-R037	A
Learning Whole-Slide Segmentation from Inexact and Incomplete Labels using Tissue Graphs <i>Valentin Anklin, Pushpak Pati, Guillaume Jaume, Behzad Bozorgtabar, Antonio Foncubierta-Rodriguez, Jean-Philippe Thiran, Mathilde Sibony, Maria Gabrani, Orcun Goksel</i>	Tue-S2	Tue-S2&4-ML-R037	D
Deep Open Snake Tracker for Vessel Tracing <i>Li Chen, Wenjin Liu, Niranjana Balu, Mahmud Mossa-Basha, Thomas S. Hatsukami, Jenq-Neng Hwang, Chun Yuan</i>	Tue-S3	Tue-S1&3-CApp-R001	B
Distortion Energy for Deep Learning-based Volumetric Finite Element Mesh Generation for Aortic Valves <i>Daniel H. Pak, Minliang Liu, Theodore Kim, Liang Liang, Raymond McKay, Wei Sun, James S. Duncan</i>	Tue-S3	Tue-S1&3-CApp-R001	D
TVnet: Automated Time-Resolved Tracking of the Tricuspid Valve Plane in MRI Long-Axis Cine Images with a Dual-Stage Deep Learning Pipeline <i>Ricardo A. Gonzales, Jérôme Lamy, Felicia Seemann, Einar Heiberg, John A. Onofrey, Dana C. Peters</i>	Tue-S3	Tue-S1&3-CApp-R001	E
Ultrasound Video Transformers for Cardiac Ejection Fraction Estimation <i>Hadrien Reynaud, Athanasios Vlontzos, Benjamin Hou, Arian Beqiri, Paul Leeson, Bernhard Kainz</i>	Tue-S3	Tue-S1&3-CApp-R002	A

Title/Authors	Session	Room number in SpatialChat	Spot in Room
EchoCP: An Echocardiography Dataset in Contrast Transthoracic Echocardiography for Patent Foramen Ovale Diagnosis <i>Tianchen Wang, Zhihe Li, Meiping Huang, Jian Zhuang, Shanshan Bi, Jiawei Zhang, Yiyu Shi, Hongwen Fei, Xiaowei Xu</i>	Tue-S3	Tue-S1&3-CApp-R002	C
BI-RADS Classification of Calcification on Mammograms <i>Yanbo Zhang, Yuxing Tang, Zhenjie Cao, Mei Han, Jing Xiao, Jie Ma, Peng Chang</i>	Tue-S3	Tue-S1&3-CApp-R003	B
Graph Transformers for Characterization and Interpretation of Surgical Margins <i>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</i>	Tue-S3	Tue-S1&3-CApp-R003	C
Interactive smoothing parameter optimization in DBT Reconstruction using Deep learning <i>Pranjal Sahu, Hailiang Huang, Wei Zhao, Hong Qin</i>	Tue-S3	Tue-S1&3-CApp-R004	B
Trainable summarization to improve breast tomosynthesis classification <i>Mickael Tardy, Diana Mateus</i>	Tue-S3	Tue-S1&3-CApp-R004	C
Learning More for Free - A Multi Task Learning Approach for Improved Pathology Classification in Capsule Endoscopy <i>Anuja Vats, Marius Pedersen, Ahmed Mohammed, Øistein Hovde</i>	Tue-S3	Tue-S1&3-CApp-R005	B
Non-invasive Assessment of Hepatic Venous Pressure Gradient (HVPG) Based on MR Flow Imaging and Computational Fluid Dynamics <i>Kexin Wang, Shuo Wang, Minghua Xiong, Chengyan Wang, He Wang</i>	Tue-S3	Tue-S1&3-CApp-R005	D
Deep-Cleansing: Deep-learning based Electronic Cleansing in Dual-energy CT Colonography <i>Guibo Luo, Tianyu Liu, Bin Li, Michael Zalis, Wenli Cai</i>	Tue-S3	Tue-S1&3-CApp-R005	E
Detecting Hypo-plastic Left Heart Syndrome in Fetal Ultrasound via Disease-specific Atlas Maps <i>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</i>	Tue-S3	Tue-S1&3-CApp-R006	B
STRESS: Super-Resolution for Dynamic Fetal MRI using Self-Supervised Learning <i>Junshen Xu, Esra Abaci Turk, P. Ellen Grant, Polina Golland, Elfar Adalsteinsson</i>	Tue-S3	Tue-S1&3-CApp-R006	D

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Visual-Assisted Probe Movement Guidance for Obstetric Ultrasound Scanning using Landmark Retrieval <i>Cheng Zhao, Richard Droste, Lior Drukker, Aris T. Papageorghiou, J. Alison Noble</i>	Tue-S3	Tue-S1&3-CApp-R006	E
Chest Radiograph Disentanglement for COVID-19 Outcome Prediction <i>Lei Zhou, Joseph Bae, Huidong Liu, Gagandeep Singh, Jeremy Green, Dimitris Samaras, Prateek Prasanna</i>	Tue-S3	Tue-S1&3-CApp-R007	B
LuMiRa: An Integrated Lung Deformation Atlas and 3D-CNN model of Infiltrates for COVID-19 Prognosis <i>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</i>	Tue-S3	Tue-S1&3-CApp-R007	C
Attention based CNN-LSTM Network for Pulmonary Embolism Prediction on Chest Computed Tomography Pulmonary Angiograms <i>Sudhir Suman, Gagandeep Singh, Nicole Sakla, Rishabh Gattu, Jeremy Green, Tej Phatak, Dimitris Samaras, Prateek Prasanna</i>	Tue-S3	Tue-S1&3-CApp-R008	B
Determination of error in 3D CT to 2D fluoroscopy image registration for endobronchial guidance <i>Nicole Varble, Alvin Chen, Ayushi Sinha, Brian Lee, Quirina de Ruiter, Bradford J. Wood, Torre Bydlon</i>	Tue-S3	Tue-S1&3-CApp-R008	C
RATCHET: Medical Transformer for Chest X-ray Diagnosis and Reporting <i>Benjamin Hou, Georgios Kaissis, Ronald M. Summers, Bernhard Kainz</i>	Tue-S3	Tue-S1&3-CApp-R009	A
Sequential Learning on Liver Tumor Boundary Semantics and Prognostic Biomarker Mining <i>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</i>	Tue-S3	Tue-S1&3-CApp-R009	C
Multiple Instance Learning with Auxiliary Task Weighting for Multiple Myeloma Classification <i>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</i>	Tue-S3	Tue-S1&3-CApp-R010	B
Do we need complex image features to personalize treatment of patients with locally advanced rectal cancer? <i>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</i>	Tue-S3	Tue-S1&3-CApp-R010	C
Culprit-Prune-Net: Efficient Continual Sequential Multi-Domain Learning with Application to Skin Lesion Classification <i>Nourhan Bayasi, Ghassan Hamarneh, Rafeef Garbi</i>	Tue-S3	Tue-S1&3-CApp-R011	A

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Parallel Capsule Networks for Classification of White Blood Cells <i>Juan P. Viguera-Guillén, Arijit Patra, Ola Engkvist, Frank Seeliger</i>	Tue-S3	Tue-S1&3-CApp-R011	C
Few-shot Transfer Learning for Hereditary Retinal Diseases Recognition <i>Siwei Mai, Qian Li, Qi Zhao, Mingchen Gao</i>	Tue-S3	Tue-S1&3-CApp-R012	A
Local-global Dual Perception based Deep Multiple Instance Learning for Retinal Disease Classification <i>Qi Bi, Shuang Yu, Wei Ji, Cheng Bian, Lijun Gong, Hanruo Liu, Kai Ma, Yefeng Zheng</i>	Tue-S3	Tue-S1&3-CApp-R012	C
MASC-Units: Training Oriented Filters for Segmenting Curvilinear Structures <i>Zewen Liu, Timothy Cootes</i>	Tue-S3	Tue-S1&3-CApp-R013	A
Effective semantic segmentation in Cataract surgery: What matters most? <i>Theodoros Pissas, Claudio S. Rivasio, Lyndon Da Cruz, Christos Bergeles</i>	Tue-S3	Tue-S1&3-CApp-R013	C
RV-GAN: Segmenting Retinal Vascular Structure in Fundus Photographs using a Novel Multi-scale Generative Adversarial Network <i>Sharif Amit Kamran, Khondker Fariha Hossain, Alireza Tavakkoli, Stewart Lee Zuckerbrod, Kenton M. Sanders, Salah A. Baker</i>	Tue-S3	Tue-S1&3-CApp-R014	A
LensID: A CNN-RNN-Based Framework Towards Lens Irregularity Detection in Cataract Surgery Videos <i>Negin Ghamsarian, Mario Taschwer, Doris Putzgruber-Adamitsch, Stephanie Sarny, Yosuf El-Shabrawi, Klaus Schoeffmann</i>	Tue-S3	Tue-S1&3-CApp-R014	C
Motion Correction for Liver DCE-MRI with Time-Intensity Curve Constraint <i>Yuhang Sun, Dongming Wei, Zhiming Cui, Yujia Zhou, Caiwen Jiang, Jiameng Liu, Qianjin Feng, Dinggang Shen</i>	Tue-S3	Tue-S1&3-CAI-R015	A
Detection of critical structures in laparoscopic cholecystectomy using label relaxation and self-supervision <i>David Owen, Maria Grammatikopoulou, Imanol Luengo, Danail Stoyanov</i>	Tue-S3	Tue-S1&3-CAI-R015	C
Personalized CT Organ Dose Estimation from Scout Images <i>Abdullah-Al-Zubaer Imran, Sen Wang, Debashish Pal, Sandeep Dutta, Bhavik Patel, Evan Zucker, Adam Wang</i>	Tue-S3	Tue-S1&3-CAI-R016	B

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Whole Heart Mesh Generation For Image-Based Computational Simulations By Learning Free-From Deformations <i>Fanwei Kong, Shawn C. Shadden</i>	Tue-S3	Tue-S1&3-CAI-R016	C
Automatic Path Planning for Safe Guide Pin Insertion in PCL Reconstruction Surgery <i>Florian Kordon, Andreas Maier, Benedict Swartman, Maxim Privalov, Jan Siad El Barbari, Holger Kunze</i>	Tue-S3	Tue-S1&3-CAI-R017	B
Deep Simulation of Facial Appearance Changes Following Craniomaxillofacial Bony Movements in Orthognathic Surgical Planning <i>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</i>	Tue-S3	Tue-S1&3-CAI-R017	C
DLLNet: An Attention-based Deep Learning Method for Dental Landmark Localization on High-Resolution 3D Digital Dental Models <i>Yankun Lang, Hannah H. Deng, Deqiang Xiao, Chunfeng Lian, Tianshu Kuang, Jaime Gateno, Pew-Thian Yap, James J. Xia</i>	Tue-S3	Tue-S1&3-CAI-R018	B
Improving hexahedral-FEM-based plasticity in surgery simulation <i>Ruiliang Gao, Jorg Peters</i>	Tue-S3	Tue-S1&3-CAI-R018	D
High-particle simulation of Monte-Carlo dose distribution with 3D ConvLSTMs <i>Sonia Martinot, Norbert Bus, Maria Vakalopoulou, Charlotte Robert, Eric Deutsch, Nikos Paragios</i>	Tue-S3	Tue-S1&3-CAI-R018	E
Multi-View Surgical Video Action Detection via Mixed Global View Attention <i>Adam Schmidt, Aidean Sharghi, Helene Haugerud, Daniel Oh, Omid Mohareri</i>	Tue-S3	Tue-S1&3-CAI-R019	B
Rapid treatment planning for low-dose-rate prostate brachytherapy with TP-GAN <i>Tajwar Abrar Aleef, Ingrid T. Spadinger, Michael D. Peacock, Septimiu E. Salcudean, S. Sara Mahdavi</i>	Tue-S3	Tue-S1&3-CAI-R019	D
Interhemispheric functional connectivity in the primary motor cortex distinguishes between training on a physical and a virtual surgical simulator <i>Anirban Dutta, Anil Kamat, Basiel Makled, Jack Norfleet, Xavier Intes, Suvranu De</i>	Tue-S3	Tue-S1&3-CAI-R019	E
Revisiting iterative highly efficient optimisation schemes in medical image registration <i>Lasse Hansen, Mattias P. Heinrich</i>	Tue-S4	Tue-S2&4-Reg-R020	B
Nesterov Accelerated ADMM for Fast Diffeomorphic Image Registration <i>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</i>	Tue-S4	Tue-S2&4-Reg-R020	C

Title/Authors	Session	Room number in SpatialChat	Spot in Room
4D-CBCT Registration with a FBCT-derived Plug-and-Play Feasibility Regularizer <i>Yudi Sang, Dan Ruan</i>	Tue-S4	Tue-S2&4-Reg-R021	B
Learning Unsupervised Parameter-specific Affine Transformation for Medical Images Registration <i>Xu Chen, Yanda Meng, Yitian Zhao, Rachel Williams, Srinivasa R. Vallabhaneni, Yalin Zheng</i>	Tue-S4	Tue-S2&4-Reg-R021	C
Multi-scale Neural ODEs for 3D Medical Image Registration <i>Junshen Xu, Eric Z. Chen, Xiao Chen, Terrence Chen, Shanhui Sun</i>	Tue-S4	Tue-S2&4-Reg-R022	B
Construction of Longitudinally Consistent 4D Infant Cerebellum Atlases based on Deep Learning <i>Liangjun Chen, Zhengwang Wu, Dan Hu, Yuchen Pei, Fenqiang Zhao, Yue Sun, Ya Wang, Weili Lin, Li Wang, Gang Li</i>	Tue-S4	Tue-S2&4-Reg-R022	D
Bayesian Atlas Building with Hierarchical Priors for Subject-specific Regularization <i>Jian Wang, Miaomiao Zhang</i>	Tue-S4	Tue-S2&4-Reg-R022	E
End-to-end Ultrasound Frame to Volume Registration <i>Hengtao Guo, Xuanang Xu, Sheng Xu, Bradford J. Wood, Pingkun Yan</i>	Tue-S4	Tue-S2&4-Reg-R023	B
Unsupervised Diffeomorphic Surface Registration and Non-Linear Modelling <i>Balder Croquet, Daan Christiaens, Seth M. Weinberg, Michael Bronstein, Dirk Vandermeulen, Peter Claes</i>	Tue-S4	Tue-S2&4-Reg-R023	C
Equivariant Filters for Efficient Tracking in 3D Imaging <i>Daniel Moyer, Esra Abaci Turk, P. Ellen Grant, William M. Wells, Polina Golland</i>	Tue-S4	Tue-S2&4-Reg+ML-R024	A
Cross-modal Attention for MRI and Ultrasound Volume Registration <i>Xinrui Song, Hengtao Guo, Xuanang Xu, Hanqing Chao, Sheng Xu, Baris Turkbey, Bradford J. Wood, Ge Wang, Pingkun Yan</i>	Tue-S4	Tue-S2&4-Reg+ML-R024	C
SAME: Deformable Image Registration based on Self-supervised Anatomical Embeddings <i>Fengze Liu, Ke Yan, Adam P. Harrison, Dazhou Guo, Le Lu, Alan L. Yuille, Lingyun Huang, Guotong Xie, Jing Xiao, Xianghua Ye, Dakai Jin</i>	Tue-S4	Tue-S2&4-Reg+ML-R025	A
Disentangled Sequential Graph Autoencoder for Preclinical Alzheimer's Disease Characterizations from ADNI Study <i>Fan Yang, Rui Meng, Hyuna Cho, Guorong Wu, Won Hwa Kim</i>	Tue-S4	Tue-S2&4-Reg+ML-R025	C

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Weakly Supervised Registration of Prostate MRI and Histopathology Images <i>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</i>	Tue-S4	Tue-S2&4-Reg+ML-R026	A
Training Deep Networks for Prostate Cancer Diagnosis Using Coarse Histopathological Labels <i>Golara Javadi, Samareh Samadi, Sharareh Bayat, Samira Sojoudi, Antonio Hurtado, Silvia Chang, Peter Black, Parvin Mousavi, Purang Abolmaesumi</i>	Tue-S4	Tue-S2&4-Reg+ML-R026	C
POPCORN: Progressive Pseudo-labeling with Consistency Regularization and Neighboring <i>Reda Abdellah Kamraoui, Vinh-Thong Ta, Nicolas Papadakis, Fanny Compaire, Jose V Manjon, Pierrick Coupé</i>	Tue-S4	Tue-S2&4-ML-R027	A
Semi-supervised Contrastive Learning for Label-efficient Medical Image Segmentation <i>Xinrong Hu, Dewen Zeng, Xiaowei Xu, Yiyu Shi</i>	Tue-S4	Tue-S2&4-ML-R027	C
Lesion Segmentation and RECIST Diameter Prediction via Click-driven Attention and Dual-path Connection <i>Youbao Tang, Ke Yan, Jinzheng Cai, Lingyun Huang, Guotong Xie, Jing Xiao, Jingjing Lu, Gigin Lin, Le Lu</i>	Tue-S4	Tue-S2&4-ML-R028	A
Combining Attention-based Multiple Instance Learning and Gaussian Processes for CT Hemorrhage Detection <i>Yunan Wu, Arne Schmidt, Enrique Hernández-Sánchez, Rafael Molina, Aggelos K. Katsaggelos</i>	Tue-S4	Tue-S2&4-ML-R028	C
Implicit field learning for unsupervised anomaly detection in medical images <i>Sergio Naval Marimont, Giacomo Tarroni</i>	Tue-S4	Tue-S2&4-ML-R029	A
Topological Learning and Its Application to Multimodal Brain Network Integration <i>Tananun Songdechakraiwut, Li Shen, Moo Chung</i>	Tue-S4	Tue-S2&4-ML-R029	C
Contrastive Learning with Continuous Proxy Meta-Data For 3D MRI Classification <i>Benoit Dufumier, Pietro Gori, Julie Victor, Antoine Grigis, Michele Wessa, Paolo Brambilla, Pauline Favre, Mircea Polosan, Colm McDonald, Camille Marie Pigué, Mary Phillips, Lisa Eyler, Edouard Duchesnay</i>	Tue-S4	Tue-S2&4-ML-R030	B
Learning 4D Infant Cortical Surface Atlas with Unsupervised Spherical Networks <i>Fenqiang Zhao, Zhengwang Wu, Li Wang, Weili Lin, Shunren Xia, Gang Li</i>	Tue-S4	Tue-S2&4-ML-R030	C
Self-Supervised Multi-Modal Alignment For Whole Body Medical Imaging <i>Rhydian Windsor, Amir Jamaludin, Timor Kadir, Andrew Zisserman</i>	Tue-S4	Tue-S2&4-ML-R031	A

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Contrastive Pre-training and Representation Distillation for Medical Visual Question Answering Based on Radiology Images <i>Bo Liu, Li-Ming Zhan, Xiao-Ming Wu</i>	Tue-S4	Tue-S2&4-ML-R031	C
Self-Supervised Vessel Enhancement Using Flow-Based Consistencies <i>Rohit Jena, Sumedha Singla, Kayhan Batmanghelich</i>	Tue-S4	Tue-S2&4-ML-R032	B
Deformed2Self: Self-Supervised Denoising for Dynamic Medical Imaging <i>Junshen Xu, Elfar Adalsteinsson</i>	Tue-S4	Tue-S2&4-ML-R032	D
Multimodal Representation Learning via Maximization of Local Mutual Information <i>Ruizhi Liao, Daniel Moyer, Miriam Cha, Keegan Quigley, Seth Berkowitz, Steven Horng, Polina Golland, William M. Wells</i>	Tue-S4	Tue-S2&4-ML-R032	E
Segmentation of Left Atrial MR Images via Self-supervised Semi-supervised Meta-learning <i>Dani Kiyasseh, Albert Swiston, Ronghua Chen, Antong Chen</i>	Tue-S4	Tue-S2&4-ML-R033	A
Positional Contrastive Learning for Volumetric Medical Image Segmentation <i>Dewen Zeng, Yawen Wu, Xinrong Hu, Xiaowei Xu, Haiyun Yuan, Meiping Huang, Jian Zhuang, Jingtong Hu, Yiyu Shi</i>	Tue-S4	Tue-S2&4-ML-R033	C
Lesion-based Contrastive Learning for Diabetic Retinopathy Grading from Fundus Images <i>Yijin Huang, Li Lin, Pujin Cheng, Junyan Lyu, Xiaoying Tang</i>	Tue-S4	Tue-S2&4-ML-R034	A
SimTriplet: Simple Triplet Representation Learning with a Single GPU <i>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</i>	Tue-S4	Tue-S2&4-ML-R034	C
Observational Supervision for Medical Image Classification using Gaze Data <i>Khaled Saab, Sarah M. Hooper, Nimit S. Sohoni, Jupinder Parmar, Brian Pogatchnik, Sen Wu, Jared A. Dunnmon, Hongyang R. Zhang, Daniel Rubin, Christopher Ré</i>	Tue-S4	Tue-S2&4-ML-R035	B
Improving Pneumonia Localization via Cross-Attention on Medical Images and Reports <i>Riddhish Bhalodia, Ali Hatamizadeh, Leo Tam, Ziyue Xu, Xiaosong Wang, Evrim Turkbey, Daguang Xu</i>	Tue-S4	Tue-S2&4-ML-R035	C
Adapting Off-the-Shelf Source Segmenter for Target Medical Image Segmentation <i>Xiaofeng Liu, Fangxu Xing, Chao Yang, Georges El Fakhri, Jonghye Woo</i>	Tue-S4	Tue-S2&4-ML-R036	B

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Inter Extreme Points Geodesics for End-to-End Weakly Supervised Image Segmentation <i>Reuben Dorent, Samuel Joutard, Jonathan Shapey, Aaron Kujawa, Marc Modat, Sébastien Ourselin, Tom Vercauteren</i>	Tue-S4	Tue-S2&4-ML-R036	C
Bounding Box Tightness Prior for Weakly Supervised Image Segmentation <i>Juan Wang, Bin Xia</i>	Tue-S4	Tue-S2&4-ML-R037	B
Weakly-Supervised Universal Lesion Segmentation with Regional Level Set Loss <i>Youbao Tang, Jinzheng Cai, Ke Yan, Lingyun Huang, Guotong Xie, Jing Xiao, Jingjing Lu, Gigin Lin, Le Lu</i>	Tue-S4	Tue-S2&4-ML-R037	C

Wednesday, September 29th, 2021

Session Wed-S1: Computer Aided Diagnosis (CAD), 08:00 - 09:30 UTC

Session Wed-S2: Machine Learning – Advances, Interpretability and Uncertainty (ML) + Image Reconstruction (Reco), 09:30 – 11:00 UTC

Session Wed-S3: Computer Aided Diagnosis (CAD), 16:00 to 17:30 UTC

Session Wed-S4: Machine Learning – Advances, Interpretability and Uncertainty (ML) + Image Reconstruction (Reco), 17:30 to 19:00 UTC

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Triplet-Branch Network with Prior-Knowledge Embedding for Fatigue Fracture Grading <i>Yuexiang Li, Yanping Wang, Guang Lin, Yi Lin, Dong Wei, Qirui Zhang, Kai Ma, Guangming Lu, Zhiqiang Zhang, Yefeng Zheng</i>	Wed-S1	Wed-S1&3-CAD-R038	A
You Only Learn Once: Universal Anatomical Landmark Detection <i>Heqin Zhu, Qingsong Yao, Li Xiao, S. Kevin Zhou</i>	Wed-S1	Wed-S1&3-CAD-R038	D
MBFF-Net: Multi-Branch Feature Fusion Network for Carotid Plaque Segmentation in Ultrasound <i>Shiyu Mi, Qiqi Bao, Zhanghong Wei, Fan Xu, Wenming Yang</i>	Wed-S1	Wed-S1&3-CAD-R039	A
Identifying Quantitative and Explanatory Tumor Indexes from Dynamic Contrast Enhanced Ultrasound <i>Peng Wan, Chunrui Liu, Fang Chen, Jing Qin, Daoqiang Zhang</i>	Wed-S1	Wed-S1&3-CAD-R039	D
VertNet: Accurate Vertebra Localization and Identification Network from CT Images <i>Zhiming Cui, Changjian Li, Lei Yang, Chunfeng Lian, Feng Shi, Wenping Wang, Dijia Wu, Dinggang Shen</i>	Wed-S1	Wed-S1&3-CAD-R040	B
AutoFB: Automating Fetal Biometry Estimation from Standard Ultrasound Planes <i>Sophia Bano, Brian Dromey, Francisco Vasconcelos, Raffaele Napolitano, Anna L. David, Donald M. Peebles, Danail Stoyanov</i>	Wed-S1	Wed-S1&3-CAD-R040	D
Seg4Reg+: Consistency Learning between Spine Segmentation and Cobb Angle Regression <i>Yi Lin, Luyan Liu, Kai Ma, Yefeng Zheng</i>	Wed-S1	Wed-S1&3-CAD-R040	E
DeepOPG: Improving Orthopantomogram Finding Summarization with Weak Supervision <i>Tzu-Ming Harry Hsu, Yin-Chih Chelsea Wang</i>	Wed-S1	Wed-S1&3-CAD-R041	A

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Constrained Contrastive Distribution Learning for Unsupervised Anomaly Detection and Localisation in Medical Images <i>Yu Tian, Guansong Pang, Fengbei Liu, Yuanhong Chen, Seon Ho Shin, Johan W. Verjans, Rajvinder Singh, Gustavo Carneiro</i>	Wed-S1	Wed-S1&3-CAD-R041	D
Beyond Non-Maximum Suppression - Detecting Lesions in Digital Breast Tomosynthesis Volumes <i>Yoel Shoshan, Aviad Zlotnick, Vadim Ratner, Daniel Khapun, Ella Barkan, Flora Gilboa-Solomon</i>	Wed-S1	Wed-S1&3-CAD-R042	A
A Segmentation-Assisted Model for Universal Lesion Detection with Partial Labels <i>Fei Lyu, Baoyao Yang, Andy J. Ma, Pong C. Yuen</i>	Wed-S1	Wed-S1&3-CAD-R042	D
Towards a non-invasive diagnosis of portal hypertension based on an Eulerian CFD model with diffuse boundary conditions <i>Lixin Ren, Shang Wan, Yi Wei, Xiaowei He, Bin Song, Enhua Wu</i>	Wed-S1	Wed-S1&3-CAD-R043	A
A Deep Reinforced Tree-traversal Agent for Coronary Artery Centerline Extraction <i>Zhuowei Li, Qing Xia, Zhiqiang Hu, Wenji Wang, Lijian Xu, Shaoting Zhang</i>	Wed-S1	Wed-S1&3-CAD-R043	D
LDPolypVideo Benchmark: A Large-scale Colonoscopy Video Dataset of Diverse Polyps <i>Yiting Ma, Xuejin Chen, Kai Cheng, Yang Li, Bin Sun</i>	Wed-S1	Wed-S1&3-CAD-R044	A
Multi-frame Collaboration for Effective Endoscopic Video Polyp Detection via Spatial-Temporal Feature Transformation <i>Lingyun Wu, Zhiqiang Hu, Yuanfeng Ji, Ping Luo, Shaoting Zhang</i>	Wed-S1	Wed-S1&3-CAD-R044	D
Hepatocellular Carcinoma Segmentation from Digital Subtraction Angiography Videos using Learnable Temporal Difference <i>Wenting Jiang, Yicheng Jiang, Lu Zhang, Changmiao Wang, Xiaoguang Han, Shuixing Zhang, Xiang Wan, Shuguang Cui</i>	Wed-S1	Wed-S1&3-CAD-R047	A
Predicting Symptoms from Multiphasic MRI via Multi-Instance Attention Learning for Hepatocellular Carcinoma Grading <i>Zelin Qiu, Yongsheng Pan, Jie Wei, Dijia Wu, Yong Xia, Dinggang Shen</i>	Wed-S1	Wed-S1&3-CAD-R047	D
Focusing on Clinically Interpretable Features: Selective Attention Regularization for Liver Biopsy Image Classification <i>Chong Yin, Siqi Liu, Rui Shao, Pong C. Yuen</i>	Wed-S1	Wed-S1&3-CAD-R048	A

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Hybrid Aggregation Network for Survival Analysis from Whole Slide Histopathological Images <i>Jia-Ren Chang, Ching-Yi Lee, Chi-Chung Chen, Joachim Reischl, Talha Qaiser, Chao-Yuan Yeh</i>	Wed-S1	Wed-S1&3-CAD-R048	D
Alleviating Data Imbalance Issue with Perturbed Input during Inference <i>Kanghao Chen, Yifan Mao, Huijuan Lu, Chenghua Zeng, Ruixuan Wang, Wei-Shi Zheng</i>	Wed-S1	Wed-S1&3-CAD-R049	A
Continual Learning with Bayesian Model based on a Fixed Pre-trained Feature Extractor <i>Yang Yang, Zhiying Cui, Junjie Xu, Changhong Zhong, Ruixuan Wang, Wei-Shi Zheng</i>	Wed-S1	Wed-S1&3-CAD-R049	C
Categorical Relation-Preserving Contrastive Knowledge Distillation for Medical Image Classification <i>Xiaohan Xing, Yuenan Hou, Hang Li, Yixuan Yuan, Hongsheng Li, Max Q.-H. Meng</i>	Wed-S1	Wed-S1&3-CAD-R050	A
Projection-wise Disentangling for Fair and Interpretable Representation Learning: Application to 3D Facial Shape Analysis <i>Xianjing Liu, Bo Li, Esther Bron, Wiro Niessen, Eppo Wolvius, Gennady Roshchupkin</i>	Wed-S1	Wed-S1&3-CAD-R050	C
Co-Graph Attention Reasoning based Imaging and Clinical Features Integration for Lymph Node Metastasis Prediction <i>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</i>	Wed-S1	Wed-S1&3-CAD-R051	A
Predicting Esophageal Fistula Risks Using a Multimodal Self-Attention Network <i>Yulu Guan, Hui Cui, Yiyue Xu, Qiangguo Jin, Tian Feng, Huawei Tu, Ping Xuan, Wanlong Li, Linlin Wang, Been-Lirn Duh</i>	Wed-S1	Wed-S1&3-CAD-R051	D
Region Ensemble Network for MCI Conversion Prediction With a Relation Regularized Loss <i>Yuan-Xing Zhao, Yan-Ming Zhang, Ming Song, Cheng-Lin Liu</i>	Wed-S1	Wed-S1&3-CAD-R052	A
Meta-Modulation Network for Domain Generalization in Multi-site fMRI Classification <i>Jaemin Lee, Eunsong Kang, Eunjin Jeon, Heung-Il Suk</i>	Wed-S1	Wed-S1&3-CAD-R052	D
DAE-GCN: Identifying Disease-Related Features for Disease Prediction <i>Churan Wang, Xinwei Sun, Fandong Zhang, Yizhou Yu, Yizhou Wang</i>	Wed-S1	Wed-S1&3-CAD-R053	A
Joint Spinal Centerline Extraction and Curvature Estimation with Row-wise Classification and Curve Graph Network <i>Long Huo, Bin Cai, Pengpeng Liang, Zhiyong Sun, Chi Xiong, Chaoshi Niu, Bo Song, Erkang Cheng</i>	Wed-S1	Wed-S1&3-CAD-R053	D

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Multiple Meta-model Quantifying for Medical Visual Question Answering <i>Tuong Do, Binh X. Nguyen, Erman Tjiputra, Minh Tran, Quang D. Tran, Anh Nguyen</i>	Wed-S1	Wed-S1&3-CAD-R054	D
A Coherent Cooperative Learning Framework Based on Transfer Learning for Unsupervised Cross-domain Classification <i>Xinxin Shan, Ying Wen, Qingli Li, Yue Lu, Haibin Cai</i>	Wed-S1	Wed-S1&3-CAD-R055	A
Energy-Based Supervised Hashing for Multimorbidity Image Retrieval <i>Peng Huang, Xiuzhuang Zhou, Zeqiang Wei, Guodong Guo</i>	Wed-S1	Wed-S1&3-CAD-R055	D
Source-Free Domain Adaptive Fundus Image Segmentation with Denoised Pseudo-Labeling <i>Cheng Chen, Quande Liu, Yueming Jin, Qi Dou, Pheng-Ann Heng</i>	Wed-S1	Wed-S1&3-CAD-R056	A
Unsupervised Representation Learning Meets Pseudo-Label Supervised Self-Distillation: A New Approach to Rare Disease Classification <i>Jinghan Sun, Dong Wei, Kai Ma, Liansheng Wang, Yefeng Zheng</i>	Wed-S1	Wed-S1&3-CAD-R056	C
Enhanced Breast Lesion Classification via Knowledge Guided Cross-Modal and Semantic Data Augmentation <i>Kun Chen, Yuanfan Guo, Canqian Yang, Yi Xu, Rui Zhang, Chunxiao Li, Rong Wu</i>	Wed-S1	Wed-S1&3-CAD-R057	A
Towards Robust Dual-view Transformation via Densifying Sparse Supervision for Mammography Lesion Matching <i>Junlin Xian, Zhiwei Wang, Kwang-Ting Cheng, Xin Yang</i>	Wed-S1	Wed-S1&3-CAD-R057	D
Generalised Super Resolution for Quantitative MRI Using Self-Supervised Mixture of Experts <i>Hongxiang Lin, Yukun Zhou, Paddy J. Slator, Daniel C. Alexander</i>	Wed-S2	Wed-S2&4-Reco-R055	A
Acceleration by deep-learnt sharing of superfluous information in multi-contrast MRI <i>Sudhanya Chatterjee, Suresh Emmanuel Joel, Ramesh Venkatesan, Dattesh Dayanand Shanbhag</i>	Wed-S2	Wed-S2&4-Reco-R055	D
Towards Ultrafast MRI via Extreme k-Space Undersampling and Superresolution <i>Aleksandr Belov, Joël Stadelmann, Sergey Kastrayulin, Dmitry V. Dylov</i>	Wed-S2	Wed-S2&4-Reco-R056	A

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Two-Stage Self-Supervised Cycle-Consistency Network for Reconstruction of Thin-Slice MR Images <i>Zhiyang Lu, Zheng Li, Jun Wang, Jun Shi, Dinggang Shen</i>	Wed-S2	Wed-S2&4-Reco-R057	A
Self-Supervised Learning for MRI Reconstruction with a Parallel Network Training Framework <i>Chen Hu, Cheng Li, Haifeng Wang, Qiegen Liu, Hairong Zheng, Shanshan Wang</i>	Wed-S2	Wed-S2&4-Reco-R057	D
Interpretable deep learning for multimodal super-resolution of medical images <i>Evaggelia Tsiligianni, Matina Zerva, Iman Marivani, Nikos Deligiannis, Lisimachos Kondi</i>	Wed-S2	Wed-S2&4-Reco-R058	A
TarGAN: Target-Aware Generative Adversarial Networks for Multi-modality Medical Image Translation <i>Junxiao Chen, Jia Wei, Rui Li</i>	Wed-S2	Wed-S2&4-Reco-R058	D
Memory-efficient Learning for High-dimensional MRI Reconstruction <i>Ke Wang, Michael Kellman, Christopher M. Sandino, Kevin Zhang, Shreyas S. Vasanawala, Jonathan I. Tamir, Stella X. Yu, Michael Lustig</i>	Wed-S2	Wed-S2&4-Reco-R059	A
Fast Magnetic Resonance Imaging on Regions of Interest: From Sensing to Reconstruction <i>Liyang Sun, Hongyu Huang, Xinghao Ding, Yue Huang, Xiaoqing Liu, Yizhou Yu</i>	Wed-S2	Wed-S2&4-Reco-R059	D
Universal Undersampled MRI Reconstruction <i>Xinwen Liu, Jing Wang, Feng Liu, S. Kevin Zhou</i>	Wed-S2	Wed-S2&4-Reco-R060	B
Noise Mapping and Removal in Complex-Valued Multi-Channel MRI via Optimal Shrinkage of Singular Values <i>Khoi Minh Huynh, Wei-Tang Chang, Sang Hun Chung, Yong Chen, Yueh Lee, Pew-Thian Yap</i>	Wed-S2	Wed-S2&4-Reco-R060	D
Demystifying T1-MRI to FDG18-PET Image Translation via Representational Similarity <i>Chia-Hsiang Kao, Yong-Sheng Chen, Li-Fen Chen, Wei-Chen Chiu</i>	Wed-S2	Wed-S2&4-Reco-R060	E
High-Resolution Hierarchical Adversarial Learning for OCT Speckle Noise Reduction <i>Yi Zhou, Jiang Li, Meng Wang, Weifang Zhu, Yuanyuan Peng, Zhongyue Chen, Lianyu Wang, Tingting Wang, Chenpu Yao, Ting Wang, Xinjian Chen</i>	Wed-S2	Wed-S2&4-Reco-R061	A

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Revisiting contour-driven and knowledge-based deformable models: application to 2D-3D proximal femur reconstruction from X-ray images <i>Christophe Chênes, Jérôme Schmid</i>	Wed-S2	Wed-S2&4-Reco-R062	A
Sequential Lung Nodule Synthesis using Attribute-guided Generative Adversarial Networks <i>Sungho Suh, Sojeong Cheon, Dong-Jin Chang, Deukhee Lee, Yong Oh Lee</i>	Wed-S2	Wed-S2&4-Reco-R062	D
Learned super resolution ultrasound for improved breast lesion characterization <i>Or Bar-Shira, Ahuva Grubstein, Yael Rapson, Dror Suhami, Eli Atar, Keren Peri-Hanania, Ronnie Rosen, Yonina C. Eldar</i>	Wed-S2	Wed-S2&4-Reco-R063	B
Self Context and Shape Prior for Sensorless Freehand 3D Ultrasound Reconstruction <i>Mingyuan Luo, Xin Yang, Xiaoqiong Huang, Yuhao Huang, Yuxin Zou, Xindi Hu, Nishant Ravikumar, Alejandro F. Frangi, Dong Ni</i>	Wed-S2	Wed-S2&4-Reco-R063	D
A Data-driven Approach for High Frame Rate Synthetic Transmit Aperture Ultrasound Imaging <i>Yinran Chen, Jing Liu, Jianwen Luo, Xiongbiao Luo</i>	Wed-S2	Wed-S2&4-Reco-R063	E
Learnable Multi-scale Fourier Interpolation for Sparse View CT Image Reconstruction <i>Qiaoqiao Ding, Hui Ji, Hao Gao, Xiaoqun Zhang</i>	Wed-S2	Wed-S2&4-Reco-R064	B
Depth Estimation for Colonoscopy Images with Self-supervised Learning from Videos <i>Kai Cheng, Yiting Ma, Bin Sun, Yang Li, Xuejin Chen</i>	Wed-S2	Wed-S2&4-Reco-R064	D
RLP-Net: A Recursive Light Propagation Network for 3-D Virtual Refocusing <i>Changyeop Shin, Hyun Ryu, Eun-Seo Cho, Young-Gyu Yoon</i>	Wed-S2	Wed-S2&4-Reco-R064	E
Conditional GAN with an Attention-based Generator and a 3D Discriminator for 3D Medical Image Generation <i>Euijin Jung, Miguel Luna, Sang Hyun Park</i>	Wed-S2	Wed-S2&4-Reco-R065	A
3D Transformer-GAN for High-quality PET Reconstruction <i>Yanmei Luo, Yan Wang, Chen Zu, Bo Zhan, Xi Wu, Jiliu Zhou, Dinggang Shen, Luping Zhou</i>	Wed-S2	Wed-S2&4-Reco-R065	D
Improving Generalizability in Limited-Angle CT Reconstruction with Sinogram Extrapolation <i>Ce Wang, Haimiao Zhang, Qian Li, Kun Shang, Yuanyuan Lyu, Bin Dong, S. Kevin Zhou</i>	Wed-S2	Wed-S2&4-Reco-R066	A

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U-DuDoNet: Unpaired dual-domain network for CT metal artifact reduction <i>Yuanyuan Lyu, Jiajun Fu, Cheng Peng, S. Kevin Zhou</i>	Wed-S2	Wed-S2&4-Reco-R067	A
InDuDoNet: An Interpretable Dual Domain Network for CT Metal Artifact Reduction <i>Hong Wang, Yuexiang Li, Haimiao Zhang, Jiawei Chen, Kai Ma, Deyu Meng, Yefeng Zheng</i>	Wed-S2	Wed-S2&4-Reco-R067	D
Explainable Classification of Weakly Annotated Wireless Capsule Endoscopy Images based on a Fuzzy Bag-of-Colour Features Model and Brain Storm Optimization <i>Michael Vasilakakis, Georgia Sovatzidi, Dimitris K. Iakovidis</i>	Wed-S2	Wed-S2&4-ML-R068	A
Explaining COVID-19 and Thoracic Pathology Model Predictions by Identifying Informative Input Features <i>Ashkan Khakzar, Yang Zhang, Wejdene Mansour, Yuezhi Cai, Yawei Li, Yucheng Zhang, Seong Tae Kim, Nassir Navab</i>	Wed-S2	Wed-S2&4-ML-R068	D
Improving the Explainability of Skin Cancer Diagnosis Using CBIR <i>Catarina Barata, Carlos Santiago</i>	Wed-S2	Wed-S2&4-ML-R069	A
Interpretable gender classification from retinal fundus images using BagNets <i>Indu Ilanchezian, Dmitry Kobak, Hanna Faber, Focke Ziemssen, Philipp Berens, Murat Seçkin Ayhan</i>	Wed-S2	Wed-S2&4-ML-R069	D
Fighting Class Imbalance with Contrastive Learning <i>Yassine Marrakchi, Osama Makansi, Thomas Brox</i>	Wed-S2	Wed-S2&4-ML-R070	A
A Principled Approach to Failure Analysis and Model Repairment: Demonstration in Medical Imaging <i>Thomas Henn, Yasukazu Sakamoto, Clément Jacquet, Shunsuke Yoshizawa, Masamichi Andou, Stephen Tchen, Ryosuke Saga, Hiroyuki Ishihara, Katsuhiko Shimizu, Yingzhen Li, Ryutaro Tanno</i>	Wed-S2	Wed-S2&4-ML-R070	D
A Hierarchical Feature Constraint to Camouflage Medical Adversarial Attacks <i>Qingsong Yao, Zecheng He, Yi Lin, Kai Ma, Yefeng Zheng, S. Kevin Zhou</i>	Wed-S2	Wed-S2&4-ML-R071	A
Continuous-Time Deep Glioma Growth Models <i>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</i>	Wed-S2	Wed-S2&4-ML-R071	D

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Uncertainty-Guided Progressive GANs for Medical Image Translation <i>Uddeshya Upadhyay, Yanbei Chen, Tobias Hepp, Sergios Gatidis, Zeynep Akata</i>	Wed-S2	Wed-S2&4-ML-R072	D
Confidence-aware Cascaded Network for Fetal Brain Segmentation on MR Images <i>Xukun Zhang, Zhiming Cui, Changan Chen, Jie Wei, Jingjiao Lou, Wenxin Hu, He Zhang, Tao Zhou, Feng Shi, Dinggang Shen</i>	Wed-S2	Wed-S2&4-ML-R072	E
Detecting when pre-trained nnU-Net models fail silently for Covid-19 lung lesion segmentation <i>Camila Gonzalez, Karol Gotkowski, Andreas Bucher, Ricarda Fischbach, Isabel Kaltenborn, Anirban Mukhopadhyay</i>	Wed-S2	Wed-S2&4-ML-R073	B
Conditional Training with Bounding Map for Universal Lesion Detection <i>Han Li, Long Chen, Hu Han, Ying Chi, S. Kevin Zhou</i>	Wed-S2	Wed-S2&4-ML-R073	D
Spine-Transformers: Vertebra Detection and Localization in Arbitrary Field-of-View Spine CT with Transformers <i>Rong Tao, Guoyan Zheng</i>	Wed-S2	Wed-S2&4-ML-R073	E
Personalized Retrogress-Resilient Framework for Real-World Medical Federated Learning <i>Zhen Chen, Meilu Zhu, Chen Yang, Yixuan Yuan</i>	Wed-S2	Wed-S2&4-ML-R074	A
Federated Contrastive Learning for Decentralized Unlabeled Medical Images <i>Nanqing Dong, Irina Voiculescu</i>	Wed-S2	Wed-S2&4-ML-R074	C
AlignTransformer: Hierarchical Alignment of Visual Regions and Disease Tags for Medical Report Generation <i>Di You, Fenglin Liu, Shen Ge, Xiaoxia Xie, Jing Zhang, Xian Wu</i>	Wed-S2	Wed-S2&4-ML-R075	B
Multi-view analysis of unregistered medical images using cross-view transformers <i>Gijs van Tulder, Yao Tong, Elena Marchiori</i>	Wed-S2	Wed-S2&4-ML-R075	D
Variational Topic Inference for Chest X-Ray Report Generation <i>Ivona Najdenkoska, Xiantong Zhen, Marcel Worring, Ling Shao</i>	Wed-S2	Wed-S2&4-ML-R075	E

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Distilling effective supervision for robust medical image segmentation with noisy labels <i>Jialin Shi, Ji Wu</i>	Wed-S2	Wed-S2&4-ML-R076	A
Joint Motion Correction and Super Resolution for Cardiac Segmentation via Latent Optimisation <i>Shuo Wang, Chen Qin, Nicolò Savioli, Chen Chen, Declan P. O'Regan, Stuart Cook, Yike Guo, Daniel Rueckert, Wenjia Bai</i>	Wed-S2	Wed-S2&4-ML-R076	C
VinDr-SpineXR: A deep learning framework for spinal lesions detection and classification from radiographs <i>Hieu T. Nguyen, Hieu H. Pham, Nghia T. Nguyen, Ha Q. Nguyen, Thang Q. Huynh, Minh Dao, Van Vu</i>	Wed-S3	Wed-S1&3-CAD-R038	B
Semi-Supervised Learning for Bone Mineral Density Estimation in Hip X-ray Images <i>Kang Zheng, Yirui Wang, Xiao-Yun Zhou, Fakai Wang, Le Lu, Chihung Lin, Lingyun Huang, Guotong Xie, Jing Xiao, Chang-Fu Kuo, Shun Miao</i>	Wed-S3	Wed-S1&3-CAD-R038	C
Learning from Subjective Ratings Using Auto-Decoded Deep Latent Embeddings <i>Bowen Li, Xinping Ren, Ke Yan, Le Lu, Lingyun Huang, Guotong Xie, Jing Xiao, Dar-In Tai, Adam P. Harrison</i>	Wed-S3	Wed-S1&3-CAD-R039	B
DeepMitral: Fully Automatic 3D Echocardiography Segmentation for Patient Specific Mitral Valve Modelling <i>Patrick Carnahan, John Moore, Daniel Bainbridge, Mehdi Eskandari, Elvis C. S. Chen, Terry M. Peters</i>	Wed-S3	Wed-S1&3-CAD-R039	C
3D Brain Midline Delineation for Hematoma Patients <i>Chenchen Qin, Haoming Li, Yixun Liu, Hong Shang, Hanqi Pei, Xiaoning Wang, Yihao Chen, Jianbo Chang, Ming Feng, Renzhi Wang, Jianhua Yao</i>	Wed-S3	Wed-S1&3-CAD-R040	A
Effective Pancreatic Cancer Screening on Non-contrast CT Scans via Anatomy-Aware Transformers <i>Yingda Xia, Jiawen Yao, Le Lu, Lingyun Huang, Guotong Xie, Jing Xiao, Alan L. Yuille, Kai Cao, Ling Zhang</i>	Wed-S3	Wed-S1&3-CAD-R040	C
ASC-Net: Adversarial-based Selective Network for Unsupervised Anomaly Segmentation <i>Raunak Dey, Yi Hong</i>	Wed-S3	Wed-S1&3-CAD-R041	B
Sequential Gaussian Process Regression for Simultaneous Pathology Detection and Shape Reconstruction <i>Dana Rahbani, Andreas Morel-Forster, Dennis Madsen, Jonathan Aellen, Thomas Vetter</i>	Wed-S3	Wed-S1&3-CAD-R041	C
Asymmetric 3D Context Fusion for Universal Lesion Detection <i>Jiancheng Yang, Yi He, Kaiming Kuang, Zudi Lin, Hanspeter Pfister, Bingbing Ni</i>	Wed-S3	Wed-S1&3-CAD-R042	B

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Stochastic 4D Flow Vector-Field Signatures: A new approach for comprehensive 4D Flow MRI quantification <i>Mohammed S.M. Elbaz, Chris Malaisrie, Patrick McCarthy, Michael Markl</i>	Wed-S3	Wed-S1&3-CAD-R043	B
DeepStationing: Thoracic Lymph Node Station Parsing in CT Scans using Anatomical Context Encoding and Key Organ Auto-Search <i>Dazhou Guo, Xianghua Ye, Jia Ge, Xing Di, Le Lu, Lingyun Huang, Guotong Xie, Jing Xiao, Zhongjie Lu, Ling Peng, Senxiang Yan, Dakai Jin</i>	Wed-S3	Wed-S1&3-CAD-R043	C
Few Trust Data Guided Annotation Refinement for Upper Gastrointestinal Anatomy Recognition <i>Yan Li, Kai Lan, Xiaoyi Chen, Li Quan, Ni Zhang</i>	Wed-S3	Wed-S1&3-CAD-R044	B
AMINN: Autoencoder-based Multiple Instance Neural Network Improves Outcome Prediction in Multifocal Liver Metastases <i>Jianan Chen, Helen M. C. Cheung, Laurent Milot, Anne L. Martel</i>	Wed-S3	Wed-S1&3-CAD-R044	C
mfTrans-Net: Quantitative Measurement of Hepatocellular Carcinoma via Multi-Function Transformer Regression Network <i>Jianfeng Zhao, Xiaojiao Xiao, Dengwang Li, Jaron Chong, Zahra Kassam, Bo Chen, Shuo Li</i>	Wed-S3	Wed-S1&3-CAD-R047	B
Primary Tumor and Inter-Organ Augmentations for Supervised Lymph Node Colon Adenocarcinoma Metastasis Detection <i>Apostolia Tsirikoglou, Karin Stacke, Gabriel Eilertsen, Jonas Unger</i>	Wed-S3	Wed-S1&3-CAD-R047	C
Automating Embryo Development Stage Detection in Time-Lapse Imaging with Synergic Loss and Temporal Learning <i>Lisette Lockhart, Parvaneh Saeedi, Jason Au, Jon Havelock</i>	Wed-S3	Wed-S1&3-CAD-R048	B
Survival Prediction Based on Histopathology Imaging and Clinical Data: A Novel, Whole Slide CNN Approach <i>Saloni Agarwal, Mohamedelfatih Eltigani Osman Abaker, Ovidiu Daescu</i>	Wed-S3	Wed-S1&3-CAD-R048	C
A Novel Bayesian Semi-parametric Model for Learning Heritable Imaging Traits <i>Yize Zhao, Xiwen Zhao, Mansu Kim, Jingxuan Bao, Li Shen</i>	Wed-S3	Wed-S1&3-CAD-R049	B

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MG-NET: Leveraging Pseudo-Imaging for Multi-Modal Metagenome Analysis <i>Sathyannarayanan N. Aakur, Sai Narayanan, Vineela Indla, Arunkumar Bagavathi, Vishalini Laguduva Ramnath, Akhilesh Ramachandran</i>	Wed-S3	Wed-S1&3-CAD-R049	E
A Structural Causal Model for MR Images of Multiple Sclerosis <i>Jacob C. Reinhold, Aaron Carass, Jerry L. Prince</i>	Wed-S3	Wed-S1&3-CAD-R050	B
AnaXNet: Anatomy Aware Multi-label Finding Classification in Chest X-ray <i>Nkechinyere N. Agu, Joy T. Wu, Hanqing Chao, Ismini Lourentzou, Arjun Sharma, Mehdi Moradi, Pingkun Yan, James Hendlar</i>	Wed-S3	Wed-S1&3-CAD-R050	D
Attention-based Multi-scale Gated Recurrent Encoder with Novel Correlation Loss for COVID-19 Progression Prediction <i>Aishik Konwer, Joseph Bae, Gagandeep Singh, Rishabh Gattu, Syed Ali, Jeremy Green, Tej Phatak, Prateek Prasanna</i>	Wed-S3	Wed-S1&3-CAD-R050	E
Lung Cancer Risk Estimation with Incomplete Data: A Joint Missing Imputation Perspective <i>Riqiang Gao, Yucheng Tang, Kaiwen Xu, Ho Hin Lee, Steve Deppen, Kim Sandler, Pierre Massion, Thomas A. Lasko, Yuankai Huo, Bennett A. Landman</i>	Wed-S3	Wed-S1&3-CAD-R051	B
Intracerebral Haemorrhage Growth Prediction Based on Displacement Vector Field and Clinical Metadata <i>Ting Xiao, Han Zheng, Xiaoning Wang, Xinghan Chen, Jianbo Chang, Jianhua Yao, Hong Shang, Peng Liu</i>	Wed-S3	Wed-S1&3-CAD-R051	C
Tensor-based Multi-index Representation Learning for Major Depression Disorder Detection with Resting-state fMRI <i>Dongren Yao, Erkun Yang, Hao Guan, Jing Sui, Zhizhong Zhang, Mingxia Liu</i>	Wed-S3	Wed-S1&3-CAD-R052	B
Cost-Sensitive Meta-Learning for Progress Prediction of Subjective Cognitive Decline with Brain Structural MRI <i>Hao Guan, Yunbi Liu, Shifu Xiao, Ling Yue, Mingxia Liu</i>	Wed-S3	Wed-S1&3-CAD-R052	C
Combining 3D Image and Tabular Data via the Dynamic Affine Feature Map Transform <i>Sebastian Pölsterl, Tom Nuno Wolf, Christian Wachinger</i>	Wed-S3	Wed-S1&3-CAD-R053	B

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Airway Anomaly Detection by Prototype-based Graph Neural Network <i>Tianyi Zhao, Zhaozheng Yin</i>	Wed-S3	Wed-S1&3-CAD-R054	B
EMA: Auditing Data Removal from Trained Models <i>Yangsibo Huang, Xiaoxiao Li, Kai Li</i>	Wed-S3	Wed-S1&3-CAD-R054	C
Detecting Outliers with Poisson Image Interpolation <i>Jeremy Tan, Benjamin Hou, Thomas Day, John Simpson, Daniel Rueckert, Bernhard Kainz</i>	Wed-S3	Wed-S1&3-CAD-R055	B
Multimodal Multitask Deep Learning for X-Ray Image Retrieval <i>Yang Yu, Peng Hu, Jie Lin, Pavitra Krishnaswamy</i>	Wed-S3	Wed-S1&3-CAD-R055	C
Data Augmentation in Logit Space for Medical Image Classification with Limited Training Data <i>Yangwen Hu, Zehao Zhong, Ruixuan Wang, Hongmei Liu, Zhijun Tan, Wei-Shi Zheng</i>	Wed-S3	Wed-S1&3-CAD-R056	B
Linear Prediction Residual for Efficient Diagnosis of Parkinson's Disease from Gait <i>Shanmukh Alle, U. Deva Priyakumar</i>	Wed-S3	Wed-S1&3-CAD-R056	D
Transfer Learning of Deep Spatiotemporal Networks to Model Arbitrarily Long Videos of Seizures <i>Fernando Pérez-García, Catherine Scott, Rachel Sparks, Beate Diehl, Sébastien Ourselin</i>	Wed-S3	Wed-S1&3-CAD-R056	E
Radiomics-informed Deep Curriculum Learning for Breast Cancer Diagnosis <i>Giacomo Nebbia, Saba Dadsetan, Dooman Arefan, Margarita L. Zuley, Jules H. Sumkin, Heng Huang, Shandong Wu</i>	Wed-S3	Wed-S1&3-CAD-R057	B
Retina-Match: Ipsilateral Mammography Lesion Matching in a Single Shot Detection Pipeline <i>Yinhao Ren, Jiafeng Lu, Zisheng Liang, Lars J. Grimm, Connie Kim, Michael Taylor-Cho, Sora Yoon, Jeffrey R. Marks, Joseph Y. Lo</i>	Wed-S3	Wed-S1&3-CAD-R057	C
Over-and-Under Complete Convolutional RNN for MRI Reconstruction <i>Pengfei Guo, Jeya Maria Jose Valanarasu, Puyang Wang, Jinyuan Zhou, Shanshan Jiang, Vishal M. Patel</i>	Wed-S4	Wed-S2&4-Reco-R055	B
Task Transformer Network for Joint MRI Reconstruction and Super-Resolution <i>Chun-Mei Feng, Yunlu Yan, Huazhu Fu, Li Chen, Yong Xu</i>	Wed-S4	Wed-S2&4-Reco-R055	C

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Rician noise estimation for 3D Magnetic Resonance Images based on Benford's Law <i>Rosa Maza-Quiroga, Karl Thurnhofer-Hemsi, Domingo López-Rodríguez, Ezequiel López-Rubio</i>	Wed-S4	Wed-S2&4-Reco-R056	C
MRI Super-Resolution Through Generative Degradation Learning <i>Yao Sui, Onur Afacan, Ali Gholipour, Simon K. Warfield</i>	Wed-S4	Wed-S2&4-Reco-R057	B
Real-Time Mapping of Tissue Properties for Magnetic Resonance Fingerprinting <i>Yilin Liu, Yong Chen, Pew-Thian Yap</i>	Wed-S4	Wed-S2&4-Reco-R057	C
Deep J-Sense: Accelerated MRI Reconstruction via Unrolled Alternating Optimization <i>Marius Arvinte, Sriram Vishwanath, Ahmed H. Tewfik, Jonathan I. Tamir</i>	Wed-S4	Wed-S2&4-Reco-R058	B
Temporal Feature Fusion with Sampling Pattern Optimization for Multi-echo Gradient Echo Acquisition and Image Reconstruction <i>Jinwei Zhang, Hang Zhang, Chao Li, Pascal Spincemaille, Mert R. Sabuncu, Thanh D. Nguyen, Yi Wang</i>	Wed-S4	Wed-S2&4-Reco-R058	C
Adaptive Squeeze-and-Shrink Image Denoising for Improving Deep Detection of Cerebral Microbleeds <i>Hangfan Liu, Tanweer Rashid, Jeffrey Ware, Paul Jensen, Thomas Austin, Ilya Nasrallah, Robert Bryan, Susan Heckbert, Mohamad Habes</i>	Wed-S4	Wed-S2&4-Reco-R059	B
Multi-Contrast MRI Super-Resolution via a Multi-Stage Integration Network <i>Chun-Mei Feng, Huazhu Fu, Shuhao Yuan, Yong Xu</i>	Wed-S4	Wed-S2&4-Reco-R059	C
Collaborative Image Synthesis and Disease Diagnosis for Classification of Neurodegenerative Disorders with Incomplete Multi-modal Neuroimages <i>Yongsheng Pan, Yuanyuan Chen, Dinggang Shen, Yong Xia</i>	Wed-S4	Wed-S2&4-Reco-R060	A
Controllable cardiac synthesis via disentangled anatomy arithmetic <i>Spyridon Thermos, Xiao Liu, Alison O'Neil, Sotirios A. Tsaftaris</i>	Wed-S4	Wed-S2&4-Reco-R060	C
Estimation of High Framerate Digital Subtraction Angiography Sequences at Low Radiation Dose <i>Nazim Haouchine, Parikshit Juvekar, Xin Xiong, Jie Luo, Tina Kapur, Rose Du, Alexandra Golby, Sarah Frisken</i>	Wed-S4	Wed-S2&4-Reco-R061	B
Generator Versus Segmentor: Pseudo-healthy Synthesis <i>Yunlong Zhang, Chenxin Li, Xin Lin, Liyan Sun, Yihong Zhuang, Yue Huang, Xinghao Ding, Xiaoqing Liu, Yizhou Yu</i>	Wed-S4	Wed-S2&4-Reco-R061	C

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Q-space Conditioned Translation Networks for Directional Synthesis of Diffusion Weighted Images from Multi-modal Structural MRI <i>Mengwei Ren, Heejong Kim, Neel Dey, Guido Gerig</i>	Wed-S4	Wed-S2&4-Reco-R062	B
Text2Brain: Synthesis of Brain Activation Maps from Free-form Text Query <i>Gia H. Ngo, Minh Nguyen, Nancy F. Chen, Mert R. Sabuncu</i>	Wed-S4	Wed-S2&4-Reco-R062	C
Label-Free Physics-Informed Image Sequence Reconstruction with Disentangled Spatial-Temporal Modeling <i>Xiajun Jiang, Ryan Missel, Maryam Toloubidokhti, Zhiyuan Li, Omar Gharbia, John L. Sapp, Linwei Wang</i>	Wed-S4	Wed-S2&4-Reco-R064	A
Joint Optimization of Hadamard Sensing and Reconstruction in Compressed Sensing Fluorescence Microscopy <i>Alan Q. Wang, Aaron K. LaViolette, Leo Moon, Chris Xu, Mert R. Sabuncu</i>	Wed-S4	Wed-S2&4-Reco-R064	C
Synthesizing Multi-Tracer PET Images for Alzheimer's Disease Patients using a 3D Unified Anatomy-aware Cyclic Adversarial Network <i>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</i>	Wed-S4	Wed-S2&4-Reco-R065	B
A Spherical Convolutional Neural Network for White Matter Structure Imaging via dMRI <i>Sara Sedlar, Abib Alimi, Theodore Papadopoulo, Rachid Deriche, Samuel Deslauriers-Gauthier</i>	Wed-S4	Wed-S2&4-Reco-R065	C
DA-VSR: Domain Adaptable Volumetric Super-Resolution For Medical Images <i>Cheng Peng, S. Kevin Zhou, Rama Chellappa</i>	Wed-S4	Wed-S2&4-Reco-R066	B
TransCT: Dual-path Transformer for Low Dose Computed Tomography <i>Zhicheng Zhang, Lequan Yu, Xiaokun Liang, Wei Zhao, Lei Xing</i>	Wed-S4	Wed-S2&4-Reco-R066	C
SA-GAN: Structure-Aware GAN for Organ-Preserving Synthetic CT Generation <i>Hajar Emami, Ming Dong, Siamak P. Nejad-Davarani, Carri K. Glide-Hurst</i>	Wed-S4	Wed-S2&4-Reco-R067	B
Task-Oriented Low-Dose CT Image Denoising <i>Jiajin Zhang, Hanqing Chao, Xuanang Xu, Chuang Niu, Ge Wang, Pingkun Yan</i>	Wed-S4	Wed-S2&4-Reco-R067	C
Towards Semantic Interpretation of Thoracic Disease and COVID-19 Diagnosis Models <i>Ashkan Khakzar, Sabrina Musatian, Jonas Buchberger, Icxel Valeriano Quiroz, Nikolaus Pinger, Soroosh Baselizadeh, Seong Tae Kim, Nassir Navab</i>	Wed-S4	Wed-S2&4-ML-R068	B

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Using Causal Analysis for Conceptual Deep Learning Explanation <i>Sumedha Singla, Stephen Wallace, Sofia Triantafyllou, Kayhan Batmanghelich</i>	Wed-S4	Wed-S2&4-ML-R068	C
Scalable, Axiomatic Explanations of Deep Alzheimer's Diagnosis from Heterogeneous Data <i>Sebastian Pölsterl, Christina Aigner, Christian Wachinger</i>	Wed-S4	Wed-S2&4-ML-R069	B
PAC Bayesian Performance Guarantees for Deep (Stochastic) Networks in Medical Imaging <i>Anthony Sicilia, Xingchen Zhao, Anastasia Sosnovskikh, Seong Jae Hwang</i>	Wed-S4	Wed-S2&4-ML-R069	C
Deep Neural Dynamic Bayesian Networks applied to EEG sleep spindles modeling <i>Carlos A. Loza, Laura L. Colgin</i>	Wed-S4	Wed-S2&4-ML-R070	B
An Interpretable Approach to Automated Severity Scoring in Pelvic Trauma <i>Anna Zapaishchykova, David Dreizin, Zhaoshuo Li, Jie Ying Wu, Shahrooz Faghihroohi, Mathias Unberath</i>	Wed-S4	Wed-S2&4-ML-R070	C
Sharpening Local Interpretable Model-agnostic Explanations for Histopathology: Improved Understandability and Reliability <i>Mara Graziani, Iam Palatnik de Sousa, Marley M.B.R. Vellasco, Eduardo Costa da Silva, Henning Müller, Vincent Andrearczyk</i>	Wed-S4	Wed-S2&4-ML-R071	B
Image-derived phenotype extraction for genetic discovery via unsupervised deep learning in CMR images <i>Rodrigo Bonazzola, Nishant Ravikumar, Rahman Attar, Enzo Ferrante, Tanveer Syeda-Mahmood, Alejandro F. Frangi</i>	Wed-S4	Wed-S2&4-ML-R071	C
Learning to Predict Error for MRI Reconstruction <i>Shi Hu, Nicola Pezzotti, Max Welling</i>	Wed-S4	Wed-S2&4-ML-R072	A
Uncertainty Aware Deep Reinforcement Learning for Anatomical Landmark Detection in Medical Images <i>James Browning, Micha Kornreich, Aubrey Chow, Jayashri Pawar, Li Zhang, Richard Herzog, Benjamin L. Odry</i>	Wed-S4	Wed-S2&4-ML-R072	C
The Power of Proxy Data and Proxy Networks for Hyper-Parameter Optimization in Medical Image Segmentation <i>Vishwesh Nath, Dong Yang, Ali Hatamizadeh, Anas A. Abidin, Andriy Myronenko, Holger R. Roth, Daguang Xu</i>	Wed-S4	Wed-S2&4-ML-R073	A

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Fairness in Cardiac MR Image Analysis: An Investigation of Bias Due to Data Imbalance in Deep Learning Based Segmentation <i>Esther Puyol-Antón, Bram Ruijsink, Stefan K. Piechnik, Stefan Neubauer, Steffen E. Petersen, Reza Razavi, Andrew P. King</i>	Wed-S4	Wed-S2&4-ML-R073	C
Federated Semi-supervised Medical Image Classification via Inter-client Relation Matching <i>Quande Liu, Hongzheng Yang, Qi Dou, Pheng-Ann Heng</i>	Wed-S4	Wed-S2&4-ML-R074	B
Federated Whole Prostate Segmentation in MRI with Personalized Neural Architectures <i>Holger R. Roth, Dong Yang, Wenqi Li, Andriy Myronenko, Wentao Zhu, Ziyue Xu, Xiaosong Wang, Daguang Xu</i>	Wed-S4	Wed-S2&4-ML-R074	D
FedPerl: Semi-Supervised Peer Learning for Skin Lesion Classification <i>Tariq Bdair, Nassir Navab, Shadi Albarqouni</i>	Wed-S4	Wed-S2&4-ML-R074	E
Targeted Gradient Descent: A Novel Method for Convolutional Neural Networks Fine-tuning and Online-learning <i>Junyu Chen, Evren Asma, Chung Chan</i>	Wed-S4	Wed-S2&4-ML-R075	A
SPARTA: An Integrated Stability, Discriminability, Sparsity based Radiomic Feature Selection Approach <i>Amir Reza Sadri, Sepideh Azarianpour Esfahani, Prathyush Chirra, Jacob Antunes, Pavithran Pattiam Giriprakash, Patrick Leo, Anant Madabhushi, Satish E. Viswanath</i>	Wed-S4	Wed-S2&4-ML-R075	C
Towards Robust General Medical Image Segmentation <i>Laura Daza, Juan C. Pérez, Pablo Arbeláez</i>	Wed-S4	Wed-S2&4-ML-R076	B
Group Shift Pointwise Convolution for Volumetric Medical Image Segmentation <i>Junjun He, Jin Ye, Cheng Li, Diping Song, Wanli Chen, Shanshan Wang, Lixu Gu, Yu Qiao</i>	Wed-S4	Wed-S2&4-ML-R076	D
UTNet: A Hybrid Transformer Architecture for Medical Image Segmentation <i>Yunhe Gao, Mu Zhou, Dimitris N. Metaxas</i>	Wed-S4	Wed-S2&4-ML-R076	E

Thursday, September 20th, 2021

Session Thu-S1: Computer Assisted Intervention (CAI) + Microscopy (Micr) + Neuroimaging (Neur), 08:00 - 09:30 UTC

Session Thu-S2: Image Segmentation (Seg) + Domain Adaptation (ML), 09:30 – 11:00 UTC

Session Thu-S3: Computer Assisted Intervention (CAI) + Microscopy (Micr) + Neuroimaging (Neur), 16:00 to 17:30 UTC

Session Thu-S4: Image Segmentation (Seg) + Domain Adaptation (ML), 17:30 to 19:00 UTC

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Efficient Global-Local Memory for Real-time Instrument Segmentation of Robotic Surgical Video <i>Jiacheng Wang, Yueming Jin, Liansheng Wang, Shuntian Cai, Pheng-Ann Heng, Jing Qin</i>	Thu-S1	Thu-S1&3-CAI-R077	B
Adversarial Domain Feature Adaptation for Bronchoscopic Depth Estimation <i>Mert Asim Karaoglu, Nikolas Brasch, Marijn Stollenga, Wolfgang Wein, Nassir Navab, Federico Tombari, Alexander Ladikos</i>	Thu-S1	Thu-S1&3-CAI-R077	D
hSDB-instrument: Instrument Localization Database for Laparoscopic and Robotic Surgeries <i>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</i>	Thu-S1	Thu-S1&3-CAI-R077	E
2.5D Thermometry Maps for MRI-guided Tumor Ablation <i>Julian Alpers, Daniel L. Reimert, Maximilian Rötzer, Thomas Gerlach, Marcel Gutberlet, Frank Wacker, Bennet Hensen, Christian Hansen</i>	Thu-S1	Thu-S1&3-CAI-R078	A
Image-to-Graph Convolutional Network for Deformable Shape Reconstruction from a Single Projection Image <i>Megumi Nakao, Fei Tong, Mitsuhiro Nakamura, Tetsuya Matsuda</i>	Thu-S1	Thu-S1&3-CAI-R078	C
Deep Iterative 2D/3D Registration <i>Srikrishna Jaganathan, Jian Wang, Anja Borsdorf, Karthik Shetty, Andreas Maier</i>	Thu-S1	Thu-S1&3-CAI-R079	A
Content-Preserving Unpaired Translation from Simulated to Realistic Ultrasound Images <i>Devavrat Tomar, Lin Zhang, Tiziano Portenier, Orcun Goksel</i>	Thu-S1	Thu-S1&3-CAI-R079	C
Class-Incremental Domain Adaptation with Smoothing and Calibration for Surgical Report Generation <i>Mengya Xu, Mobarakol Islam, Chwee Ming Lim, Hongliang Ren</i>	Thu-S1	Thu-S1&3-CAI-R080	A

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Image-based Incision Detection for Topological Intraoperative 3D Model Update in Augmented Reality Assisted Laparoscopic Surgery <i>Tom François, Lilian Calvet, Callyane Sève-d’Erceville, Nicolas Bourdel, Adrien Bartoli</i>	Thu-S1	Thu-S1&3-CAI-R080	D
Early Detection of Liver Fibrosis Using Graph Convolutional Networks <i>Marta Wojciechowska, Stefano Malacrino, Natalia Garcia Martin, Hamid Fehri, Jens Rittscher</i>	Thu-S1	Thu-S1&3-Micr-R081	B
Cells are Actors: Social Network Analysis with Classical ML for SOTA Histology Image Classification <i>Neda Zamanitajeddin, Mostafa Jahanifar, Nasir Rajpoot</i>	Thu-S1	Thu-S1&3-Micr-R081	D
Deep Reinforcement Exemplar Learning for Annotation Refinement <i>Yuexiang Li, Nanjun He, Sixiang Peng, Kai Ma, Yefeng Zheng</i>	Thu-S1	Thu-S1&3-Micr-R081	E
MetaCon: Meta Contrastive Learning for Microsatellite Instability Detection <i>Yuqing Liu, Weiwen Wang, Chuan-Xian Ren, Dao-Qing Dai</i>	Thu-S1	Thu-S1&3-Micr-R082	A
Hierarchical Attention Guided Framework for Multi-resolution Collaborative Whole Slide Image Segmentation <i>Jiangpeng Yan, Hanbo Chen, Kang Wang, Yan Ji, Yuyao Zhu, Jingjing Li, Dong Xie, Zhe Xu, Junzhou Huang, Shuqun Cheng, Xiu Li, Jianhua Yao</i>	Thu-S1	Thu-S1&3-Micr-R082	D
Nuclei Grading of Clear Cell Renal Cell Carcinoma in Histopathological Image by Composite High-Resolution Network <i>Zeyu Gao, Jiangbo Shi, Xianli Zhang, Yang Li, Haichuan Zhang, Jialun Wu, Chunbao Wang, Deyu Meng, Chen Li</i>	Thu-S1	Thu-S1&3-Micr-R083	B
Instance-based Vision Transformer for Subtyping of Papillary Renal Cell Carcinoma in Histopathological Image <i>Zeyu Gao, Bangyang Hong, Xianli Zhang, Yang Li, Chang Jia, Jialun Wu, Chunbao Wang, Deyu Meng, Chen Li</i>	Thu-S1	Thu-S1&3-Micr-R083	D
Ranking loss: A ranking-based deep neural network for colorectal cancer grading in pathology images <i>Trinh Thi Le Vuong, Kyungeun Kim, Boram Song, Jin Tae Kwak</i>	Thu-S1	Thu-S1&3-Micr-R083	E
Hybrid Supervision Learning for Whole Slide Image Classification <i>Jiahui Li, Wen Chen, Xiaodi Huang, Shuang Yang, Zhiqiang Hu, Qi Duan, Dimitris N. Metaxas, Hongsheng Li, Shaoting Zhang</i>	Thu-S1	Thu-S1&3-Micr-R084	A

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Automated Malaria Cells Detection from Blood Smears under Severe Class Imbalance via Importance-aware Balanced Group Softmax <i>Canfeng Lin, Huisi Wu, Zhenkun Wen, Jing Qin</i>	Thu-S1	Thu-S1&3-Micr-R084	D
Weakly supervised pan-cancer segmentation tool <i>Marvin Lerousseau, Marion Classe, Enzo Battistella, Théo Estienne, Théophraste Henry, Amaury Leroy, Roger Sun, Maria Vakalopoulou, Jean-Yves Scoazec, Eric Deutsch, Nikos Paragios</i>	Thu-S1	Thu-S1&3-Micr-R085	A
Structure-Preserving Multi-Domain Stain Color Augmentation using Style-Transfer with Disentangled Representations <i>Sophia J. Wagner, Nadiyah Khalili, Raghav Sharma, Melanie Boxberg, Carsten Marr, Walter de Back, Tingying Peng</i>	Thu-S1	Thu-S1&3-Micr-R085	C
Positive-unlabeled Learning for Cell Detection in Histopathology Images with Incomplete Annotations <i>Zipei Zhao, Fengqian Pang, Zhiwen Liu, Chuyang Ye</i>	Thu-S1	Thu-S1&3-Micr-R086	A
Semi-supervised Adversarial Learning for Stain Normalisation in Histopathology Images <i>Cong Cong, Sidong Liu, Antonio Di Ieva, Maurice Pagnucco, Shlomo Berkovsky, Yang Song</i>	Thu-S1	Thu-S1&3-Micr-R086	C
Generalizing Nucleus Recognition Model in Multi-source Ki67 Immunohistochemistry Stained Images via Domain-specific Pruning <i>Jiatong Cai, Chenglu Zhu, Can Cui, Honglin Li, Tong Wu, Shichuan Zhang, Lin Yang</i>	Thu-S1	Thu-S1&3-Micr-R087	A
CA^{2.5}-Net Nuclei Segmentation Framework with a Microscopy Cell Benchmark Collection <i>Jinghan Huang, Yiqing Shen, Dinggang Shen, Jing Ke</i>	Thu-S1	Thu-S1&3-Micr-R087	D
Semi-supervised Cell Detection in Time-lapse Images Using Temporal Consistency <i>Kazuya Nishimura, Hyeonwoo Cho, Ryoma Bise</i>	Thu-S1	Thu-S1&3-Micr-R088	A
Cell Detection from Imperfect Annotation by Pseudo Label Selection Using P-classification <i>Kazuma Fujii, Daiki Suehiro, Kazuya Nishimura, Ryoma Bise</i>	Thu-S1	Thu-S1&3-Micr-R088	D
GQ-GCN: Group Quadratic Graph Convolutional Network for Classification of Histopathological Images <i>Zhiyang Gao, Jun Shi, Jun Wang</i>	Thu-S1	Thu-S1&3-Micr-R089	A
Cell Detection in Domain Shift Problem Using Pseudo-Cell-Position Heatmap <i>Hyeonwoo Cho, Kazuya Nishimura, Kazuhide Watanabe, Ryoma Bise</i>	Thu-S1	Thu-S1&3-Micr-R089	D

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Contrastive Learning Based Stain Normalization Across Multiple Tumor Histopathology <i>Jing Ke, Yiqing Shen, Xiaoyao Liang, Dinggang Shen</i>	Thu-S1	Thu-S1&3-Micr-R090	A
Integration of Patch Features through Self-Supervised Learning and Transformer for Survival Analysis on Whole Slide Images <i>Ziwang Huang, Hua Chai, Ruoqi Wang, Haitao Wang, Yuedong Yang, Hejun Wu</i>	Thu-S1	Thu-S1&3-Micr-R090	D
Adversarial learning of cancer tissue representations <i>Adalberto Claudio Quiros, Nicolas Coudray, Anna Yeaton, Wisuwat Sunhem, Roderick Murray-Smith, Aristotelis Tsirigos, Ke Yuan</i>	Thu-S1	Thu-S1&3-Micr-R091	A
Learning Visual Features by Colorization for Slide-Consistent Survival Prediction from Whole Slide Images <i>Lei Fan, Arcot Sowmya, Erik Meijering, Yang Song</i>	Thu-S1	Thu-S1&3-Micr-R091	D
2D Histology Meets 3D Topology: Cytoarchitectonic Brain Mapping with Graph Neural Networks <i>Christian Schiffer, Stefan Harmeling, Katrin Amunts, Timo Dickscheid</i>	Thu-S1	Thu-S1&3-Neur-R092	A
Covariate Correcting Networks for Identifying Associations between Socioeconomic Factors and Brain Outcomes in Children <i>Hyuna Cho, Gunwoong Park, Amal Isaiah, Won Hwa Kim</i>	Thu-S1	Thu-S1&3-Neur-R092	D
Self-supervised Lesion Change Detection and Localisation in Longitudinal Multiple Sclerosis Brain Imaging <i>Minh-Son To, Ian G Sarno, Chee Chong, Mark Jenkinson, Gustavo Carneiro</i>	Thu-S1	Thu-S1&3-Neur-R093	B
LG-Net: Lesion Gate Network for Multiple Sclerosis Lesion Inpainting <i>Zihao Tang, Mariano Cabezas, Dongnan Liu, Michael Barnett, Weidong Cai, Chenyu Wang</i>	Thu-S1	Thu-S1&3-Neur-R093	D
Personalized Matching and Analysis of Cortical Folding Patterns via Patch-Based Intrinsic Brain Mapping <i>Jiong Zhang, Yonggang Shi</i>	Thu-S1	Thu-S1&3-Neur-R093	E
Multi-site Incremental Image Quality Assessment of Structural MRI via Consensus Adversarial Representation Adaptation <i>Siyuan Liu, Kim-Han Thung, Weili Lin, Pew-Thian Yap</i>	Thu-S1	Thu-S1&3-Neur-R094	A

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Symmetry-Enhanced Attention Network for Acute Ischemic Infarct Segmentation with Non-Contrast CT Images <i>Kongming Liang, Kai Han, Xiuli Li, Xiaoqing Cheng, Yiming Li, Yizhou Wang, Yizhou Yu</i>	Thu-S1	Thu-S1&3-Neur-R094	D
Joint PVL Detection and Manual Ability Classification using Semi-Supervised Multi-task Learning <i>Jingyun Yang, Jie Hu, Yicong Li, Heng Liu, Yang Li</i>	Thu-S1	Thu-S1&3-Neur-R095	A
ACN: Adversarial Co-training Network for Brain Tumor Segmentation with Missing Modalities <i>Yixin Wang, Yang Zhang, Yang Liu, Zihao Lin, Jiang Tian, Cheng Zhong, Zhongchao Shi, Jianping Fan, Zhiqiang He</i>	Thu-S1	Thu-S1&3-Neur-R095	D
Accurate parameter estimation in fetal diffusion-weighted MRI - learning from fetal and newborn data <i>Davood Karimi, Lana Vasung, Fedel Machado-Rivas, Camilo Jaimes, Shadab Khan, Ali Gholipour</i>	Thu-S1	Thu-S1&3-Neur-R096	A
Deep Fiber Clustering: Anatomically Informed Unsupervised Deep Learning for Fast and Effective White Matter Parcellation <i>Yuqian Chen, Chaoyi Zhang, Yang Song, Nikos Makris, Yogesh Rathi, Weidong Cai, Fan Zhang, Lauren J. O'Donnell</i>	Thu-S1	Thu-S1&3-Neur-R096	D
Recurrent Multigraph Integrator Network for Predicting the Evolution of Population-Driven Brain Connectivity Templates <i>Oytun Demirbilek, Islem Rekik</i>	Thu-S1	Thu-S1&3-Neur-R097	A
Multi-Head GAGNN: A Multi-Head Guided Attention Graph Neural Network for Modeling Spatio-Temporal Patterns of Holistic Brain Functional Networks <i>Jiadong Yan, Yuzhong Chen, Shimin Yang, Shu Zhang, Mingxin Jiang, Zhongbo Zhao, Tuo Zhang, Yu Zhao, Benjamin Becker, Tianming Liu, Keith Kendrick, Xi Jiang</i>	Thu-S1	Thu-S1&3-Neur-R097	D
Efficient neural network approximation of robust PCA for automated analysis of calcium imaging data <i>Seungjae Han, Eun-Seo Cho, Inkyu Park, Kijung Shin, Young-Gyu Yoon</i>	Thu-S1	Thu-S1&3-Neur-R098	B
Building Dynamic Hierarchical Brain Networks and Capturing Transient Meta-states for Early Mild Cognitive Impairment Diagnosis <i>Mianxin Liu, Han Zhang, Feng Shi, Dinggang Shen</i>	Thu-S1	Thu-S1&3-Neur-R098	D
Detecting Brain State Changes by Geometric Deep Learning of Functional Dynamics on Riemannian Manifold <i>Zhuobin Huang, Hongmin Cai, Tingting Dan, Yi Lin, Paul Laurienti, Guorong Wu</i>	Thu-S1	Thu-S1&3-Neur-R098	E

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Boundary-aware Transformers for Skin Lesion Segmentation <i>Jiacheng Wang, Lan Wei, Liansheng Wang, Qichao Zhou, Lei Zhu, Jing Qin</i>	Thu-S2	Thu-S2&4-Seg-R099	B
Multi-compound Transformer for Accurate Biomedical Image Segmentation <i>Yuanfeng Ji, Ruimao Zhang, Huijie Wang, Zhen Li, Lingyun Wu, Shaoting Zhang, Ping Luo</i>	Thu-S2	Thu-S2&4-Seg-R099	D
Learning Consistency- and Discrepancy-Context for 2D Organ Segmentation <i>Lei Li, Sheng Lian, Zhiming Luo, Shaozi Li, Beizhan Wang, Shuo Li</i>	Thu-S2	Thu-S2&4-Seg-R099	E
Joint Segmentation and Quantification of Main Coronary Vessels Using Dual-branch Multi-scale Attention Network <i>Hongwei Zhang, Dong Zhang, Zhifan Gao, Heye Zhang</i>	Thu-S2	Thu-S2&4-Seg-R100	B
Superpixel-guided Iterative Learning from Noisy Labels for Medical Image Segmentation <i>Shuailin Li, Zhitong Gao, Xuming He</i>	Thu-S2	Thu-S2&4-Seg-R100	D
Semi-supervised Meta-learning with Disentanglement for Domain-generalised Medical Image Segmentation <i>Xiao Liu, Spyridon Thermos, Alison O'Neil, Sotirios A. Tsaftaris</i>	Thu-S2	Thu-S2&4-Seg-R100	E
Convolution-Free Medical Image Segmentation using Transformers <i>Davood Karimi, Serge Didenko Vasylechko, Ali Gholipour</i>	Thu-S2	Thu-S2&4-Seg-R101	A
CarveMix: A Simple Data Augmentation Method for Brain Lesion Segmentation <i>Xinru Zhang, Chenghao Liu, Ni Ou, Xiangzhu Zeng, Xiaoliang Xiong, Yizhou Yu, Zhiwen Liu, Chuyang Ye</i>	Thu-S2	Thu-S2&4-Seg-R101	D
Coarse-to-fine Segmentation of Organs at Risk in Nasopharyngeal Carcinoma Radiotherapy <i>Qiankun Ma, Chen Zu, Xi Wu, Jiliu Zhou, Yan Wang</i>	Thu-S2	Thu-S2&4-Seg-R102	B
A Novel Hybrid Convolutional Neural Network for Accurate Organ Segmentation in 3D Head and Neck CT Images <i>Zijie Chen, Cheng Li, Junjun He, Jin Ye, Diping Song, Shanshan Wang, Lixu Gu, Yu Qiao</i>	Thu-S2	Thu-S2&4-Seg-R102	D
ReSGAN: Intracranial Hemorrhage Segmentation with Residuals of Synthetic Brain CT Scans <i>Miika Toikkanen, Doyoung Kwon, Minho Lee</i>	Thu-S2	Thu-S2&4-Seg-R102	E
Noisy Labels are Treasure: Mean-Teacher-Assisted Confident Learning for Hepatic Vessel Segmentation <i>Zhe Xu, Donghuan Lu, Yixin Wang, Jie Luo, Jagadeesan Jayender, Kai Ma, Yefeng Zheng, Xiu Li</i>	Thu-S2	Thu-S2&4-Seg-R103	B

Title/Authors	Session	Room number in SpatialChat	Spot in Room
Multi-phase Liver Tumor Segmentation with Spatial Aggregation and Uncertain Region Inpainting <i>Yue Zhang, Chengtao Peng, Liying Peng, Huimin Huang, Ruofeng Tong, Lanfen Lin, Jingsong Li, Yen-Wei Chen, Qingqing Chen, Hongjie Hu, Zhiyi Peng</i>	Thu-S2	Thu-S2&4-Seg-R103	D
Modality-aware Mutual Learning for Multi-modal Medical Image Segmentation <i>Yao Zhang, Jiawei Yang, Jiang Tian, Zhongchao Shi, Cheng Zhong, Yang Zhang, Zhiqiang He</i>	Thu-S2	Thu-S2&4-Seg-R103	E
TumorCP: A Simple but Effective Object-Level Data Augmentation for Tumor Segmentation <i>Jiawei Yang, Yao Zhang, Yuan Liang, Yang Zhang, Lei He, Zhiqiang He</i>	Thu-S2	Thu-S2&4-Seg-R104	B
Selective Learning from External Data for CT Image Segmentation <i>Youyi Song, Lequan Yu, Baiying Lei, Kup-Sze Choi, Jing Qin</i>	Thu-S2	Thu-S2&4-Seg-R104	D
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HRENet: A Hard Region Enhancement Network for Polyp Segmentation <i>Yutian Shen, Xiao Jia, Max Q.-H. Meng</i>	Thu-S2	Thu-S2&4-Seg-R106	D
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Automatic Polyp Segmentation via Multi-scale Subtraction Network <i>Xiaoqi Zhao, Lihe Zhang, Huchuan Lu</i>	Thu-S2	Thu-S2&4-Seg-R107	B
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TEDS-Net: Enforcing Diffeomorphisms in Spatial Transformers to Guarantee Topology Preservation in Segmentations <i>Madeleine K. Wyburd, Nicola K. Dinsdale, Ana I. L. Namburete, Mark Jenkinson</i>	Thu-S2	Thu-S2&4-Seg-R108	B
Style Curriculum Learning for Robust Medical Image Segmentation <i>Zhendong Liu, Van Manh, Xin Yang, Xiaoqiong Huang, Karim Lekadir, Victor Campello, Nishant Ravikumar, Alejandro F. Frangi, Dong Ni</i>	Thu-S2	Thu-S2&4-Seg-R108	D
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DC-Net: Dual Context Network for 2D Medical Image Segmentation <i>Rongtao Xu, Changwei Wang, Shibiao Xu, Weiliang Meng, Xiaopeng Zhang</i>	Thu-S2	Thu-S2&4-Seg-R110	D
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TransBTS: Multimodal Brain Tumor Segmentation Using Transformer <i>Wenxuan Wang, Chen Chen, Meng Ding, Hong Yu, Sen Zha, Jiangyun Li</i>	Thu-S2	Thu-S2&4-Seg-R111	D
Improved Brain Lesion Segmentation with Anatomical Priors from Healthy Subjects <i>Chenghao Liu, Xiangzhu Zeng, Kongming Liang, Yizhou Yu, Chuyang Ye</i>	Thu-S2	Thu-S2&4-Seg-R111	E

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Comprehensive Importance-based Selective Regularization for Continual Segmentation Across Multiple Sites <i>Jingyang Zhang, Ran Gu, Guotai Wang, Lixu Gu</i>	Thu-S2	Thu-S2&4-Seg-R115	A
A hybrid attention ensemble framework for zonal prostate segmentation <i>Mingyan Qiu, Chenxi Zhang, Zhijian Song</i>	Thu-S2	Thu-S2&4-Seg-R115	C
A Unified Hyper-GAN Model for Unpaired Multi-contrast MR Image Translation <i>Heran Yang, Jian Sun, Liwei Yang, Zongben Xu</i>	Thu-S2	Thu-S2&4-ML-R116	A
Anatomy of Domain Shift Impact on U-Net Layers in MRI Segmentation <i>Ivan Zakazov, Boris Shirokikh, Alexey Chernyavskiy, Mikhail Belyaev</i>	Thu-S2	Thu-S2&4-ML-R116	D

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Semantic Consistent Unsupervised Domain Adaptation for Cross-modality Medical Image Segmentation <i>Guodong Zeng, Till D. Lerch, Florian Schmaranzer, Guoyan Zheng, Jürgen Burger, Kate Gerber, Moritz Tannast, Klaus Siebenrock, Nicolas Gerber</i>	Thu-S2	Thu-S2&4-ML-R118	D
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Personalized Respiratory Motion Model Using Conditional Generative Networks for MR-Guided Radiotherapy <i>Liset Vázquez Romaguera, Tal Mezheritsky, Samuel Kadoury</i>	Thu-S3	Thu-S1&3-CAI-R078	B
Multimodal Sensing Guidewire for C-arm Navigation with Random UV Enhanced Optical Sensors using Spatio-temporal Networks <i>Andrei Svecic, Gilles Soulez, Frederic Monet, Raman Kashyap, Samuel Kadoury</i>	Thu-S3	Thu-S1&3-CAI-R078	D

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MorphSet: Improving Renal Histopathology Case Assessment Through Learned Prognostic Vectors <i>Pietro Antonio Cicalese, Syed Asad Rizvi, Victor Wang, Sai Patibandla, Pengyu Yuan, Samira Zare, Katharina Moos, Ibrahim Batal, Marian Clahsen-van Groningen, Candice Roufousse, Jan Becker, Chandra Mohan, Hien Van Nguyen</i>	Thu-S3	Thu-S1&3-Micr-R081	A
From Pixel to Whole Slide: Automatic Detection of Microvascular Invasion in Hepatocellular Carcinoma on Histopathological Image via Cascaded Networks <i>Hanbo Chen, Kang Wang, Yuyao Zhu, Jiangpeng Yan, Yan Ji, Jingjing Li, Dong Xie, Junzhou Huang, Shuqun Cheng, Jianhua Yao</i>	Thu-S3	Thu-S1&3-Micr-R081	C
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Hierarchical graph pathomic network for progression free survival prediction <i>Zichen Wang, Jiayun Li, Zhufeng Pan, Wenyuan Li, Anthony Sisk, Huihui Ye, William Speier, Corey W. Arnold</i>	Thu-S3	Thu-S1&3-Micr-R082	C

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Hierarchical Phenotyping and Graph Modeling of Spatial Architecture in Lymphoid Neoplasms <i>Pingjun Chen, Muhammad Aminu, Siba El Hussein, Joseph Khoury, Jia Wu</i>	Thu-S3	Thu-S1&3-Micr-R085	B
Annotation-efficient Cell Counting <i>Zuhui Wang, Zhaozheng Yin</i>	Thu-S3	Thu-S1&3-Micr-R085	D
A Deep Learning Bidirectional Temporal Tracking Algorithm for Automated Blood Cell Counting from Non-invasive Capillaroscopy Videos <i>Luojie Huang, Gregory N. McKay, Nicholas J. Durr</i>	Thu-S3	Thu-S1&3-Micr-R085	E
Instance-aware Feature Alignment for Cross-domain Cell Nuclei Detection in Histopathology Images <i>Zhi Wang, Xiaoya Zhu, Lei Su, Gang Meng, Junsheng Zhang, Ao Li, Minghui Wang</i>	Thu-S3	Thu-S1&3-Micr-R086	B
A Multi-attribute Controllable Generative Model for Histopathology Image Synthesis <i>Jiarong Ye, Yuan Xue, Peter Liu, Richard Zaino, Keith C. Cheng, Xiaolei Huang</i>	Thu-S3	Thu-S1&3-Micr-R086	D
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A computational geometry approach for modeling neuronal fiber pathways <i>S. Shailja, Angela Zhang, B.S. Manjunath</i>	Thu-S3	Thu-S1&3-Micr-R087	B

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Balanced-MixUp for highly imbalanced medical image classification <i>Adrian Galdran, Gustavo Carneiro, Miguel A. González Ballester</i>	Thu-S3	Thu-S1&3-Micr-R088	B
Topological Receptive Field Model for Human Retinotopic Mapping <i>Yanshuai Tu, Duyan Ta, Zhong-Lin Lu, Yalin Wang</i>	Thu-S3	Thu-S1&3-Micr-R088	C
Multi-modal Multi-instance Learning using Weakly Correlated Histopathological Images and Tabular Clinical Information <i>Hang Li, Fan Yang, Xiaohan Xing, Yu Zhao, Jun Zhang, Yueping Liu, Mengxue Han, Junzhou Huang, Liansheng Wang, Jianhua Yao</i>	Thu-S3	Thu-S1&3-Micr-R089	B
Prototypical models for classifying high-risk atypical breast lesions <i>Akash Parvatikar, Om Choudhary, Arvind Ramanathan, Rebekah Jenkins, Olga Navolotskaia, Gloria Carter, Akif Burak Tosun, Jeffrey L. Fine, S. Chakra Chennubhotla</i>	Thu-S3	Thu-S1&3-Micr-R089	C
DT-MIL: Deformable Transformer for Multi-instance Learning on Histopathological Image <i>Hang Li, Fan Yang, Yu Zhao, Xiaohan Xing, Jun Zhang, Mingxuan Gao, Junzhou Huang, Liansheng Wang, Jianhua Yao</i>	Thu-S3	Thu-S1&3-Micr-R090	B
Spatial Attention-based Deep Learning System for Breast Cancer Pathological Complete Response Prediction with Serial Histopathology Images in Multiple Stains <i>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</i>	Thu-S3	Thu-S1&3-Micr-R090	C
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SyNCCT: Synthetic Non-Contrast Images of the Brain from Single-Energy Computed Tomography Angiography <i>Florian Thamm, Oliver Taubmann, Felix Denzinger, Markus Jürgens, Hendrik Ditt, Andreas Maier</i>	Thu-S3	Thu-S1&3-Neur-R093	A
SegRecon: Learning Joint Brain Surface Reconstruction and Segmentation from Images <i>Karthik Gopinath, Christian Desrosiers, Herve Lombaert</i>	Thu-S3	Thu-S1&3-Neur-R093	C
Surface-Guided Image Fusion for Preserving Cortical Details in Human Brain Templates <i>Sahar Ahmad, Ye Wu, Pew-Thian Yap</i>	Thu-S3	Thu-S1&3-Neur-R094	B
Modality Completion via Gaussian Process Prior Variational Autoencoders for Multi-Modal Glioma Segmentation <i>Mohammad Hamghalam, Alejandro F. Frangi, Baiying Lei, Amber L. Simpson</i>	Thu-S3	Thu-S1&3-Neur-R094	C
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Active Cortex Tractography <i>Ye Wu, Yoonmi Hong, Sahar Ahmad, Pew-Thian Yap</i>	Thu-S3	Thu-S1&3-Neur-R095	C
Disentangled and Proportional Representation Learning for Multi-View Brain Connectomes <i>Yanfu Zhang, Liang Zhan, Shandong Wu, Paul Thompson, Heng Huang</i>	Thu-S3	Thu-S1&3-Neur-R096	B
Quantifying structural connectivity in brain tumor patients <i>Yiran Wei, Chao Li, Stephen John Price</i>	Thu-S3	Thu-S1&3-Neur-R096	C
Highly Reproducible Whole Brain Parcellation in Individuals via Voxel Annotation with Fiber Clusters <i>Ye Wu, Sahar Ahmad, Pew-Thian Yap</i>	Thu-S3	Thu-S1&3-Neur-R097	B
A Matrix Autoencoder Framework to Align the Functional and Structural Connectivity Manifolds as Guided by Behavioral Phenotypes <i>Niharika Shimona D'Souza, Mary Beth Nebel, Deana Crocetti, Joshua Robinson, Stewart Mostofsky, Archana Venkataraman</i>	Thu-S3	Thu-S1&3-Neur-R097	C

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Study Group Learning: Improving Retinal Vessel Segmentation Trained with Noisy Labels <i>Yuqian Zhou, Hanchao Yu, Humphrey Shi</i>	Thu-S4	Thu-S2&4-Seg-R099	C
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Multi-Task, Multi-Domain Deep Segmentation with Shared Representations and Contrastive Regularization for Sparse Pediatric Datasets <i>Arnaud Boutillon, Pierre-Henri Conze, Christelle Pons, Valerie Burdin, Bhushan Borotikar</i>	Thu-S4	Thu-S2&4-Seg-R100	C
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LambdaUNet: 2.5D Stroke Lesion Segmentation of Diffusion-weighted MR Images <i>Yanglan Ou, Ye Yuan, Xiaolei Huang, Kelvin Wong, John Volpi, James Z. Wang, Stephen T. C. Wong</i>	Thu-S4	Thu-S2&4-Seg-R101	C
Unsupervised Network Learning for Cell Segmentation <i>Liang Han, Zhaozheng Yin</i>	Thu-S4	Thu-S2&4-Seg-R102	A
Uncertainty-Aware Label Rectification for Domain Adaptive Mitochondria Segmentation <i>Siqi Wu, Chang Chen, Zhiwei Xiong, Xuejin Chen, Xiaoyan Sun</i>	Thu-S4	Thu-S2&4-Seg-R102	C
Pancreas CT Segmentation by Predictive Phenotyping <i>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</i>	Thu-S4	Thu-S2&4-Seg-R104	A
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Hybrid Graph Convolutional Neural Networks for Landmark-Based Anatomical Segmentation <i>Nicolás Gaggion, Lucas Mansilla, Diego H. Milone, Enzo Ferrante</i>	Thu-S4	Thu-S2&4-Seg-R105	C
FoldIt: Haustral Folds Detection and Segmentation in Colonoscopy Videos <i>Shawn Mathew, Saad Nadeem, Arie Kaufman</i>	Thu-S4	Thu-S2&4-Seg-R106	A
Co-Generation and Segmentation for Generalized Surgical Instrument Segmentation on Unlabelled Data <i>Megha Kalia, Tajwar Abrar Aleef, Nassir Navab, Peter Black, Septimiu E. Salcudean</i>	Thu-S4	Thu-S2&4-Seg-R106	C
Federated Contrastive Learning for Volumetric Medical Image Segmentation <i>Yawen Wu, Dewen Zeng, Zhepeng Wang, Yiyu Shi, Jingtong Hu</i>	Thu-S4	Thu-S2&4-Seg-R108	A
Cooperative Training and Latent Space Data Augmentation for Robust Medical Image Segmentation <i>Chen Chen, Kerstin Hammernik, Cheng Ouyang, Chen Qin, Wenjia Bai, Daniel Rueckert</i>	Thu-S4	Thu-S2&4-Seg-R108	C
Projective Skip-Connections for Segmentation Along a Subset of Dimensions in Retinal OCT <i>Dmitrii Lachinov, Philipp Seeböck, Julia Mai, Felix Goldbach, Ursula Schmidt-Erfurth, Hrvoje Bogunovic</i>	Thu-S4	Thu-S2&4-Seg-R109	A
LIFE: A Generalizable Autodidactic Pipeline for 3D OCT-A Vessel Segmentation <i>Dewei Hu, Can Cui, Hao Li, Kathleen E. Larson, Yuankai K. Tao, Ipek Oguz</i>	Thu-S4	Thu-S2&4-Seg-R109	C
NucMM Dataset: 3D Neuronal Nuclei Instance Segmentation at Sub-Cubic Millimeter Scale <i>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</i>	Thu-S4	Thu-S2&4-Seg-R110	B
A Topological-Attention ConvLSTM Network and Its Application to EM Images <i>Jiaqi Yang, Xiaoling Hu, Chao Chen, Chialing Tsai</i>	Thu-S4	Thu-S2&4-Seg-R110	C
On the relationship between calibrated predictors and unbiased volume estimation <i>Teodora Popordanoska, Jeroen Bertels, Dirk Vandermeulen, Frederik Maes, Matthew B. Blaschko</i>	Thu-S4	Thu-S2&4-Seg-R111	A
Style Transfer Using Generative Adversarial Networks for Multi-Site MRI Harmonization <i>Mengting Liu, Piyush Maiti, Sophia Thomopoulos, Alyssa Zhu, Yaqiong Chai, Hosung Kim, Neda Jahanshad</i>	Thu-S4	Thu-S2&4-Seg-R111	C

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