

MICCAI 2024 Program-at-a-glance (Tentative)

	Sunday, October 6, 2024	Monday, October 7, 2024			Tuesday, October 8, 2024			Wednesday, October 9, 2024			Thursday, October 10, 2024				
8:00	AM Satellite Event										AM Satellite Event				
8:30		Opening Ceremony + Chairs report + MICCAI Society Spotlight + Reviewer Awards			Oral 7: Health Equity: Low Resource Settings	Oral 8: Image Registration	CLINICCAI (Diamand room)	Oral 13 Neuroimaging	Oral 14: Computational pathology	AM Satellite Event Continued					
9:00		Keynote 1			Keynote 2			Keynote 3							
9:30								Coffee break							
10:00	AM Satellite Event Continued	Poster session 1, with Coffee break: Image Segmentation 1, Health Equity, and Surgical Scene Understanding			Poster session 3, with Coffee break Transparency, Fairness and Uncertainty 1, Image Formation and Reconstruction 1, and Computer Aided Diagnosis 1			CLINICCAI (Diamand room)	Poster session 5, with Coffee break Image Registration, Computer Aided Diagnosis 2, and Transparency, Fairness and Uncertainty 2		ERC & EIBIR session / European funding opportunities for MICCAI research	AM Satellite Event Continued			
10:30		Oral 1: Generative modelling: Image reconstruction and synthesis			Oral 2: Surgical Scene Understanding		Debate on AI								
11:00		WIM event			Lunch Break	Ph.D Thesis and EC Challenge event	Lunch Break			RISE event	Lunch Break				
11:30							Lunch Break			Lunch Break					
12:00	PM Satellite Event	Oral 3 + Spotlights: Machine learning strategies for MICCAI	Oral 4 + Spotlights: Health Equity: Care for All	Open Data (Diamand room)	Oral 9 + Spotlights: Image Segmentation	Oral 10 + Spotlights: Foundation models and multimodal data for MICCAI	CLINICCAI (Diamand room)	Oral 15 + Spotlights: Clinical translation: Neuro, spine and ultrasound	Oral 16 + Spotlights: Computer Assisted Interventions	From MICCAI to AFRICAI	PM Satellite Event				
12:30		Poster Session 2, with Coffee Break: Machine Learning: Learning Strategies and Clinical applications: Neuroimaging and Ultrasound			Poster Session 4, with Coffee Break: Image Segmentation 2, Surgical Data Science, and Foundation models and Multimodal Data	Industry sponsor event		Poster session 6, with Coffee Break Computer Assisted Interventions and Surgery, Image Formation and Reconstruction 2, and Clinical Translation							
13:00		PM Satellite Event continued			Oral 5: Computer aided diagnosis	Oral 6: Clinical translation: Functional imaging and oncology		Oral 11: Transparency, fairness and uncertainty	Oral 12: Surgical Data Science			Special Interest Group (SIG) Event		PM Satellite Event continued	
13:30								MICCAI Paper Awards							
14:00	Welcome Reception with local posters	MSB Academia & Industry Panel Discussion and Networking event			Gala Dinner + Enduring Impact and fellow distinguished awards			Closing ceremony and 2025 preview							
14:30															
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21:00															

MICCAI 2024 Main Conference Accepted Paper Session Assignment (Last update August 29, 2024)

Paper ID	Title/Authors	Assigned Session(s)
6	Spatio-temporal Contrast Network for Data-efficient Learning of Coronary Artery Disease in Coronary CT Angiography <i>Xinghua Ma, Mingye Zou, Xinyan Fang, Yang Liu, Gongning Luo, Wei Wang, Kuanquan Wang, Zhaowen Qiu, Xin Gao, Shuo Li</i>	Poster 5
14	TP-DRSeg: Improving Diabetic Retinopathy Lesion Segmentation with Explicit Text-Prompts Assisted SAM <i>Wenxue Li, Xinyu Xiong, Peng Xia, Lie Ju, Zongyuan Ge</i>	Poster 4
26	Tail-Enhanced Representation Learning for Surgical Triplet Recognition <i>Shuangchun Gui, Zhenkun Wang</i>	Poster 1
40	MH-pFLGB: Model Heterogeneous personalized Federated Learning via Global Bypass for Medical Image Analysis <i>Luyuan Xie, Manqing Lin, ChenMing Xu, Tianyu Luan, Zhipeng Zeng, Wenjun Qian, Cong Li, Yuejian Fang, Qingni Shen, Zhonghai Wu</i>	Poster 2
50	FM-ABS: Promptable Foundation Model Drives Active Barely Supervised Learning for 3D Medical Image Segmentation <i>Zhe Xu, Cheng Chen, Donghuan Lu, Jinghan Sun, Dong Wei, Yefeng Zheng, Quanzheng Li, Raymond Kai-yu Tong</i>	Poster 1
53	Cardiac Copilot: Automatic Probe Guidance for Echocardiography with World Model <i>Haojun Jiang, Zhenguo Sun, Ning Jia, Meng Li, Yu Sun, Shaqi Luo, Shiji Song, Gao Huang</i>	Poster 2
65	Embracing Massive Medical Data <i>Yu-Cheng Chou, Zongwei Zhou, Alan Yuille</i>	Poster 1
67	Missing as Masking: Arbitrary Cross-modal Feature Reconstruction for Incomplete Multimodal Brain Tumor Segmentation <i>Zhilin Zeng, Zelin Peng, Xiaokang Yang, Wei Shen</i>	Poster 4
73	Towards a Benchmark for Colorectal Cancer Segmentation in Endorectal Ultrasound Videos: Dataset and Model Development <i>Yuncheng Jiang, Yiwu Hu, Zixun Zhang, Jun Wei, Chun-Mei Feng, Xuemei Tang, Xiang Wan, Yong Liu, Shuguang Cui, Zhen Li</i>	Poster 5
74	UinTSeg: Unified Infant Brain Tissue Segmentation with Anatomy Delineation <i>Jiameng Liu, Feihong Liu, Kaicong Sun, Yuhang Sun, Jiawei Huang, Caiwen Jiang, Islem Rekik, Dinggang Shen</i>	Poster 2
77	XCoOp: Explainable Prompt Learning for Computer-Aided Diagnosis via Concept-guided Context Optimization <i>Yequan Bie, Luyang Luo, Zhixuan Chen, Hao Chen</i>	Poster 5
78	DiffExplainer: Unveiling Black Box Models Via Counterfactual Generation <i>Yingying Fang, Shuang Wu, Zihao Jin, Shiyi Wang, Caiwen Xu, Simon Walsh, Guang Yang</i>	Poster 5

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102	Few Slices Suffice: Multi-Faceted Consistency Learning with Active Cross-Annotation for Barely-supervised 3D Medical Image Segmentation <i>Xinyao Wu, Zhe Xu, Raymond Kai-yu Tong</i>	Oral 3: Machine learning strategies for MICCAI Poster 2
103	Learning Representations by Maximizing Mutual Information Across Views for Medical Image Segmentation <i>Weihaio Weng, Xin Zhu</i>	Poster 1
115	TaGAT: Topology-Aware Graph Attention Network For Multi-modal Retinal Image Fusion <i>Xin Tian, Nantheera Anantrasirichai, Lindsay Nicholson, Alin Achim</i>	Poster 2
117	Aligning Human Knowledge with Visual Concepts Towards Explainable Medical Image Classification <i>Yunhe Gao, Difei Gu, Mu Zhou, Dimitris Metaxas</i>	Poster 3
132	3DGPS: A 3D Differentiable-Gaussian-based Planning Strategy for Liver Tumor Cryoablation <i>Ce Wang, Xiaoyu Huang, Yaqing Kong, Qian Li, You Hao, Xiang Zhou</i>	Poster 4
134	Variational Field Constraint Learning for Degree of Coronary Artery Ischemia Assessment <i>Qi Zhang, Xiujian Liu, Heye Zhang, Chenchu Xu, Guang Yang, Yixuan Yuan, Tao Tan, Zhifan Gao</i>	Poster 1
139	Superpixel-Guided Segment Anything Model for Liver Tumor Segmentation with Couinaud Segment Prompt <i>Fei Lyu, Jingwen Xu, Ye Zhu, Grace Lai-Hung Wong, Pong C. Yuen</i>	Poster 4
141	Data Augmentation with Multi-armed Bandit on Image Deformations Improves Fluorescence Glioma Boundary Recognition <i>Anqi Xiao, Keyi Han, Xiaojing Shi, Jie Tian, Zhenhua Hu</i>	Poster 6
143	A Foundation Model for Brain Lesion Segmentation with Mixture of Modality Experts <i>Xinru Zhang, Ni Ou, Berke Doga Basaran, Marco Visentin, Mengyun Qiao, Renyang Gu, Cheng Ouyang, Yaou Liu, Paul M. Matthews, Chuyang Ye, Wenjia Bai</i>	Poster 5
148	A Multi-Information Dual-Layer Cross-Attention Model for Esophageal Fistula Prognosis <i>Jianqiao Zhang, Hao Xiong, Qiangguo Jin, Tian Feng, Jiquan Ma, Ping Xuan, Peng Cheng, Zhiyuan Ning, Zhiyu Ning, Changyang Li, Linlin Wang, Hui Cui</i>	Poster 5
150	Toward Universal Medical Image Registration via Sharpness-Aware Meta-Continual Learning <i>Bomin Wang, Xinzhe Luo, Xiahai Zhuang</i>	Poster 5

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151	ShapeMamba-EM: Fine-Tuning Foundation Model with Local Shape Descriptors and Mamba Blocks for 3D EM Image Segmentation <i>Ruohua Shi, Qiufan Pang, Lei Ma, Lingyu Duan, Tiejun Huang, Tingting Jiang</i>	Poster 1
158	EchoNet-Synthetic: Privacy-preserving Video Generation for Safe Medical Data Sharing <i>Hadrien Reynaud, Qingjie Meng, Mischa Dombrowski, Arijit Ghosh, Thomas Day, Alberto Gomez, Paul Leeson, Bernhard Kainz</i>	Poster 6
165	Advancing Text-Driven Chest X-Ray Generation with Policy-Based Reinforcement Learning <i>Woojung Han, Chanyoung Kim, Dayun Ju, Yumin Shim, Seong Jae Hwang</i>	Spotlight 3: Machine learning strategies for MICCAI Poster 4
173	Advancing Brain Imaging Analysis Step-by-step via Progressive Self-paced Learning <i>Yanwu Yang, Hairui Chen, Jiesi Hu, Xutao Guo, Ting Ma</i>	Poster 5
179	Depth-Aware Endoscopic Video Inpainting <i>Francis Xiatian Zhang, Shuang Chen, Xianghua Xie, Hubert P. H. Shum</i>	Poster 4
187	Comprehensive Generative Replay for Task-Incremental Segmentation with Concurrent Appearance and Semantic Forgetting <i>Wei Li, Jingyang Zhang, Pheng-Ann Heng, Lixu Gu</i>	Poster 4
192	Subject-Adaptive Transfer Learning Using Resting State EEG Signals for Cross-Subject EEG Motor Imagery Classification <i>Sion An, Myeongkyun Kang, Soopil Kim, Philip Chikontwe, Li Shen, Sang Hyun Park</i>	Poster 2
193	Poisson Ordinal Network for Gleason Group Estimation Using Bi-Parametric MRI <i>Yinsong Xu, Yipei Wang, Ziyi Shen, Iani J.M.B. Gayo, Natasha Thorley, Shonit Punwani, Aidong Men, Dean Barratt, Qingchao Chen, Yipeng Hu</i>	Poster 5
195	Diffusion-based Domain Adaptation for Medical Image Segmentation using Stochastic Step Alignment <i>Wen Ji, Albert C. S. Chung</i>	Oral 3: Machine learning strategies for MICCAI Poster 2
208	Biomechanics-informed Non-rigid Medical Image Registration and its Inverse Material Property Estimation with Linear and Nonlinear Elasticity <i>Zhe Min, Zachary M. C. Baum, Shaheer U. Saeed, Mark Emberton, Dean C. Barratt, Zeike A. Taylor, Yipeng Hu</i>	Poster 5
213	Surface-based and Shape-informed U-fiber Atlasing for Robust Superficial White Matter Connectivity Analysis <i>Yuan Li, Xinyu Nie, Jianwei Zhang, Yonggang Shi</i>	Poster 2
215	HistoSyn: Histomorphology-Focused Pathology Image Synthesis <i>Chong Yin, Siqi Liu, Vincent Wai-Sun Wong, Pong C. Yuen</i>	Poster 1

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219	A Bayesian Approach to Weakly-supervised Laparoscopic Image Segmentation <i>Zhou Zheng, Yuichiro Hayashi, Masahiro Oda, Takayuki Kitasaka, Kensaku Mori</i>	Poster 4
221	EndoUIC: Promptable Diffusion Transformer for Unified Illumination Correction in Capsule Endoscopy <i>Long Bai, Tong Chen, Qiaozhi Tan, Wan Jun Nah, Yanheng Li, Zhicheng He, Sishen Yuan, Zhen Chen, Jinlin Wu, Mobarakol Islam, Zhen Li, Hongbin Liu, Hongliang Ren</i>	Poster 3
223	Endo-4DGS: Endoscopic Monocular Scene Reconstruction with 4D Gaussian Splatting <i>Yiming Huang, Beilei Cui, Long Bai, Ziqi Guo, Mengya Xu, Mobarakol Islam, Hongliang Ren</i>	Poster 4
225	EndoDAC: Efficient Adapting Foundation Model for Self-Supervised Depth Estimation from Any Endoscopic Camera <i>Beilei Cui, Mobarakol Islam, Long Bai, An Wang, Hongliang Ren</i>	Poster 4
233	An Organism Starts with a Single Pix-Cell: A Neural Cellular Diffusion for High-Resolution Image Synthesis <i>Marawan Elbatel, Konstantinos Kamnitsas, Xiaomeng Li</i>	Poster 5
234	FD-SOS: Vision-Language Open-Set Detectors for Bone Fenestration and Dehiscence Detection from Intraoral Images <i>Marawan Elbatel, Keyuan Liu, Yanqi Yang, Xiaomeng Li</i>	Oral 4: Health Equity: Care for all Poster 2
236	Spatial Context Awareness in Surgery through Sound Source Localization <i>Matthias Seibold, Ali Bahari Malayeri, Philipp Frnstahl</i>	Poster 4
240	StereoDiffusion: Temporally Consistent Stereo Depth Estimation with Diffusion Models <i>Haozheng Xu, Chi Xu, Stamatia Giannarou</i>	Poster 1
242	Transforming Surgical Interventions with Embodied Intelligence for Ultrasound Robotics <i>Huan Xu, Jinlin Wu, Guanglin Cao, Zhen Chen, Zhen Lei, Hongbin Liu</i>	Oral 16: Computer Assisted Interventions Poster 6
244	Open-Set Semi-Supervised Medical Image Classification with Learnable Prototypes and Outlier Filter <i>Along He, Tao Li, Yitian Zhao, Junyong Zhao, Huazhu Fu</i>	Poster 2
245	FRCNet: Frequency and Region Consistency for Semi-supervised Medical Image Segmentation <i>Along He, Tao Li, Yanlin Wu, Ke Zou, Huazhu Fu</i>	Spotlight 9: Image Segmentation Poster 4
249	TARDRL: Task-Aware Reconstruction for Dynamic Representation Learning of fMRI <i>Yunxi Zhao, Dong Nie, Geng Chen, Xia Wu, Daoqiang Zhang, Xuyun Wen</i>	Poster 2

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250	Learning 3D Gaussians for Extremely Sparse-View Cone-Beam CT Reconstruction <i>Yiqun Lin, Hualiang Wang, Jixiang Chen, Xiaomeng Li</i>	Poster 6
251	Controllable and Efficient Multi-Class Pathology Nuclei Data Augmentation using Text-Conditioned Diffusion Models <i>Hyun-Jic Oh, Won-Ki Jeong</i>	Poster 5
253	PEPSI: Pathology-Enhanced Pulse-Sequence-Invariant Representations for Brain MRI <i>Peirong Liu, Oula Puonti, Annabel Sorby-Adams, W. Taylor Kimberly, Juan E. Iglesias</i>	Poster 4
254	Continually Tuning a Large Language Model for Multi-domain Radiology Report Generation <i>Yihua Sun, Hee Guan Khor, Yuanzheng Wang, Zhuhao Wang, Hongliang Zhao, Yu Zhang, Longfei Ma, Zhuozhao Zheng, Hongen Liao</i>	Poster 5
262	Attention-Enhanced Fusion of Structural and Functional MRI for Analyzing HIV-Associated Asymptomatic Neurocognitive Impairment <i>Yuqi Fang, Wei Wang, Qianqian Wang, Hong-Jun Li, Mingxia Liu</i>	Poster 5
263	LaTiM: Longitudinal representation learning in continuous-time models to predict disease progression <i>Rachid Zeghlache, Pierre-Henri Conze, Mostafa El Habib Daho, Yihao Li, Hugo Le Boité, Ramin Tadayoni, Pascale Massin, Béatrice Cochener, Alireza Rezaei, Ikram Brahim, Gwenolé Quellec, Mathieu Lamard</i>	Poster 5
271	ASA: Learning Anatomical Consistency, Sub-volume Spatial Relationships and Fine-grained Appearance for CT Images <i>Jiaxuan Pang, DongAo Ma, Ziyu Zhou, Michael B. Gotway, Jianming Liang</i>	Poster 2
281	Tri-modal Confluence with Temporal Dynamics for Scene Graph Generation in Operating Rooms <i>Diandian Guo, Manxi Lin, Jialun Pei, He Tang, Yueming Jin, Pheng-Ann Heng</i>	Poster 4
286	LKM-UNet: Large Kernel Vision Mamba UNet for Medical Image Segmentation <i>Jinhong Wang, Jintai Chen, Danny Chen, Jian Wu</i>	Poster 4
290	Masks and Manuscripts: Advancing Medical Pre-training with End-to-End Masking and Narrative Structuring <i>Shreyank N Gowda, David A. Clifton</i>	Poster 4
293	PRISM: A Promptable and Robust Interactive Segmentation Model with Visual Prompts <i>Hao Li, Han Liu, Dewei Hu, Jiacheng Wang, Ipek Oguz</i>	Spotlight 15: Clinical translation: Neuro, spine and ultrasound Poster 6

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297	Quest for Clone: Test-time Domain Adaptation for Medical Image Segmentation by Searching the Closest Clone in Latent Space <i>Hritam Basak, Zhaozheng Yin</i>	Poster 1
298	Insight: A Multi-Modal Diagnostic Pipeline using LLMs for Ocular Surface Disease Diagnosis <i>Chun-Hsiao Yeh, Jiayun Wang, Andrew D. Graham, Andrea J. Liu, Bo Tan, Yubei Chen, Yi Ma, Meng C. Lin</i>	Poster 4
300	Epicardium Prompt-guided Real-time Cardiac Ultrasound Frame-to-volume Registration <i>Long Lei, Jun Zhou, Jialun Pei, Baoliang Zhao, Yueming Jin, Yuen-Chun Jeremy Teoh, Jing Qin, Pheng-Ann Heng</i>	Poster 6
306	Quantitative Assessment of Thyroid Nodules through Ultrasound Imaging Analysis <i>Young-Min Kim, Myeong-Gee Kim, Seok-Hwan Oh, Guil Jung, Hyeon-Jik Lee, Sang-Yun Kim, Hyuk-Sool Kwon, Sang-Il Choi, Hyeon-Min Bae</i>	Oral 15: Clinical translation: Neuro, spine and ultrasound Poster 6
308	Cross-Dimensional Medical Self-Supervised Representation Learning Based on a Pseudo-3D Transformation <i>Fei Gao, Siwen Wang, Fandong Zhang, Hong-Yu Zhou, Yizhou Wang, Churan Wang, Gang Yu, Yizhou Yu</i>	Poster 2
310	Depth-Driven Geometric Prompt Learning for Laparoscopic Liver Landmark Detection <i>Jialun Pei, Ruize Cui, Yaoqian Li, Weixin Si, Jing Qin, Pheng-Ann Heng</i>	Oral 2: Surgical Scene Understanding Poster 4
311	ORacle: Large Vision-Language Models for Knowledge-Guided Holistic OR Domain Modeling <i>Ege Özsoy, Chantal Pellegrini, Matthias Keicher, Nassir Navab</i>	Oral 12: Surgical Data Science Poster 6
320	FM-OSD: Foundation Model-Enabled One-Shot Detection of Anatomical Landmarks <i>Juzheng Miao, Cheng Chen, Keli Zhang, Jie Chuai, Quanzheng Li, Pheng-Ann Heng</i>	Poster 3
321	Cross Prompting Consistency with Segment Anything Model for Semi-supervised Medical Image Segmentation <i>Juzheng Miao, Cheng Chen, Keli Zhang, Jie Chuai, Quanzheng Li, Pheng-Ann Heng</i>	Poster 2
322	Differentiable Soft Morphological Filters for Medical Image Segmentation <i>Lisa Guzzi, Maria A. Zuluaga, Fabien Lareyre, Gilles Di Lorenzo, Sébastien Goffart, Andrea Chierici, Juliette Raffort, Hervé Delingette</i>	Poster 1
333	MediCLIP: Adapting CLIP for Few-shot Medical Image Anomaly Detection <i>Ximiao Zhang, Min Xu, Dehui Qiu, Ruixin Yan, Ning Lang, Xiuzhuang Zhou</i>	Poster 5
334	Multi-modal Data Binding for Survival Analysis Modeling with Incomplete Data and Annotations <i>Linhao Qu, Dan Huang, Shaoting Zhang, Xiaosong Wang</i>	Poster 5

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336	WSSADN: A Weakly Supervised Spherical Age-Disentanglement Network for Detecting Developmental Disorders with Structural MRI <i>Pengcheng Xue, Dong Nie, Meijiao Zhu, Ming Yang, Han Zhang, Daoqiang Zhang, Xuyun Wen</i>	Poster 2
338	Towards Precise Pose Estimation in Robotic Surgery: Introducing Occlusion-Aware Loss <i>Jihun Park, Jiuk Hong, Jihun Yoon, Bokyung Park, Min-Kook Choi, Heechul Jung</i>	Poster 1
339	CriDiff: Criss-cross Injection Diffusion Framework via Generative Pre-train for Prostate Segmentation <i>Tingwei Liu, Miao Zhang, Leiye Liu, Jialong Zhong, Shuyao Wang, Yongri Piao, Huchuan Lu</i>	Poster 2
345	Physical-priors-guided Aortic Dissection Detection using Non-Contrast-Enhanced CT images <i>Zhengyao Ding, Yujian Hu, Hongkun Zhang, Fei Wu, Shifeng Yang, Xiaolong Du, Yilang Xiang, Tian Li, Xuesen Chu, Zhengxing Huang</i>	Poster 6
362	Slice-Consistent Lymph Nodes Detection Transformer in CT Scans via Cross-slice Query Contrastive Learning <i>Qinji Yu, Yirui Wang, Ke Yan, Le Lu, Na Shen, Xianghua Ye, Xiaowei Ding, Dakai Jin</i>	Poster 5
366	FedFMS: Exploring Federated Foundation Models for Medical Image Segmentation <i>Yuxi Liu, Guibo Luo, Yuesheng Zhu</i>	Poster 4
368	Federated Multi-Centric Image Segmentation with Uneven Label Distribution <i>Francesco Galati, Rosa Cortese, Ferran Prados, Marco Lorenzi, Maria A. Zuluaga</i>	Poster 4
372	Detecting noisy labels with repeated cross-validations <i>Jianan Chen, Vishwesh Ramanathan, Tony Xu, Anne L. Martel</i>	Poster 5
373	Online 3D reconstruction and dense tracking in endoscopic videos <i>Michel Hayoz, Christopher Hahne, Thomas Kurmann, Max Allan, Guido Beldi, Daniel Candinas, Pablo Márquez-Neila, Raphael Sznitman</i>	Poster 4
375	MM-Retinal: Knowledge-Enhanced Foundational Pretraining with Fundus Image-Text Expertise <i>Ruiqi Wu, Chenran Zhang, Jianle Zhang, Yi Zhou, Tao Zhou, Huazhu Fu</i>	Poster 3
376	Vision-Based Neurosurgical Guidance: Unsupervised Localization and Camera-Pose Prediction <i>Gary Sarwin, Alessandro Carretta, Victor Staartjes, Matteo Zoli, Diego Mazzatenta, Luca Regli, Carlo Serra, Ender Konukoglu</i>	Spotlight 16: Computer Assisted Interventions Poster 6
380	Latent Spaces Enable Transformer-Based Dose Prediction in Complex Radiotherapy Plans <i>Edward Wang, Ryan Au, Pencilla Lang, Sarah A. Mattonen</i>	Poster 2
383	Disease-informed Adaptation of Vision-Language Models	

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	<i>Jiajin Zhang, Ge Wang, Mannudeep K. Kalra, Pingkun Yan</i>	Poster 2
391	CAR-MFL: Cross-Modal Augmentation by Retrieval for Multimodal Federated Learning with Missing Modalities <i>Pranav Poudel, Prashant Shrestha, Sanskar Amgain, Yash Raj Shrestha, Prashnna Gyawali, Binod Bhattarai</i>	Poster 2
394	Decoding the visual attention of pathologists to reveal their level of expertise <i>Souradeep Chakraborty, Rajarsi Gupta, Oksana Yaskiv, Constantin Friedman, Natallia Sheuka, Dana Perez, Paul Friedman, Gregory Zelinsky, Joel Saltz, Dimitris Samaras</i>	Poster 5
399	MMSummary: Multimodal Summary Generation for Fetal Ultrasound Video <i>Xiaoqing Guo, Qianhui Men, J. Alison Noble</i>	Poster 2
405	SOM2LM: Self-Organized Multi-Modal Longitudinal Maps <i>Jiahong Ouyang, Qingyu Zhao, Ehsan Adeli, Greg Zaharchuk, Kilian M. Pohl</i>	Poster 2
407	SHAN: Shape Guided Network for Thyroid Nodule Ultrasound Cross-Domain Segmentation <i>Ruixuan Zhang, Wenhuan Lu, Cuntai Guan, Jie Gao, Xi Wei, Xuwei Li</i>	Poster 2
410	Feature Selection Gates with Gradient Routing for Endoscopic Image Computing <i>Giorgio Roffo, Carlo Biffi, Pietro Salvagnini, Andrea Cherubini</i>	Poster 5
411	Generating Anatomically Accurate Heart Structures via Neural Implicit Fields <i>Jiancheng Yang, Ekaterina Sedykh, Jason Ken Adhinarta, Hieu Le, Pascal Fua</i>	Poster 4
415	Swin SMT: Global Sequential Modeling for Enhancing 3D Medical Image Segmentation <i>Szymon Plotka, Maciej Chrabaszcz, Przemyslaw Biecek</i>	Spotlight 9: Image Segmentation Poster 4
423	Shortcut Learning in Medical Image Segmentation <i>Manxi Lin, Nina Weng, Kamil Mikolaj, Zahra Bashir, Morten B. S. Svendsen, Martin G. Tolsgaard, Anders N. Christensen, Aasa Feragen</i>	Poster 2
424	Binary Noise for Binary Tasks: Masked Bernoulli Diffusion for Unsupervised Anomaly Detection <i>Julia Wolleb, Florentin Bieder, Paul Friedrich, Peter Zhang, Alicia Durrer, Philippe C. Cattin</i>	Poster 2
441	Cross-Slice Attention and Evidential Critical Loss for Uncertainty-Aware Prostate Cancer Detection <i>Alex Ling Yu Hung, Haoxin Zheng, Kai Zhao, Kaifeng Pang, Demetri Terzopoulos, Kyunghyun Sung</i>	Poster 5

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442	Analyzing Cross-Population Domain Shift in Chest X-Ray Image Classification and Mitigating the Gap with Deep Supervised Domain Adaptation <i>Aminu Musa, Mariya Ibrahim Adamu, Habeebah Adamu Kakudi, Monica Hernandez, Yusuf Lawal</i>	Poster 1
448	Tagged-to-Cine MRI Sequence Synthesis via Light Spatial-Temporal Transformer <i>Xiaofeng Liu, Fangxu Xing, Zhangxing Bian, Tomas Arias-Vergara, Paula Andrea Pérez-Toro, Andreas Maier, Maureen Stone, Jiachen Zhuo, Jerry L. Prince, Jonghye Woo</i>	Poster 6
453	Biophysics-based data assimilation of longitudinal tau and amyloid-β PET scans <i>Zheyu Wen, Ali Ghafouri, George Biros</i>	Oral 6: Clinical translation: Functional imaging and oncology Poster 3
456	Structural Attention: Rethinking Transformer for Unpaired Medical Image Synthesis <i>Vu Minh Hieu Phan, Yutong Xie, Bowen Zhang, Yuankai Qi, Zhibin Liao, Antonios Perperidis, Son Lam Phung, Johan W. Verjans, Minh-Son To</i>	Poster 6
458	Centerline Boundary Dice Loss for Vascular Segmentation <i>Pengcheng Shi, Jiesi Hu, Yanwu Yang, Zilve Gao, Wei Liu, Ting Ma</i>	Poster 4
460	Hierarchical Text-to-Vision Self Supervised Alignment for Improved Histopathology Representation Learning <i>Hasindri Watawana, Kanchana Ranasinghe, Tariq Mahmood, Muzammal Naseer, Salman Khan, Fahad Shahbaz Khan</i>	Poster 4
470	Endora: Video Generation Models as Endoscopy Simulators <i>Chenxin Li, Hengyu Liu, Yifan Liu, Brandon Y. Feng, Wuyang Li, Xinyu Liu, Zhen Chen, Jing Shao, Yixuan Yuan</i>	Poster 4
480	This actually looks like that: Proto-BagNets for local and global interpretability-by-design <i>Kerol Djoumessi, Bubacarr Bah, Laura Kühlewein, Philipp Berens, Lisa Koch</i>	Poster 5
481	Overlay Mantle-Free for Semi-Supervised Medical Image Segmentation <i>Jiacheng Liu, Wenhua Qian, Jinde Cao, Peng Liu</i>	Poster 1
483	Deep Spectral Methods for Unsupervised Ultrasound Image Interpretation <i>Oleksandra Tmenova, Yordanka Velikova, Mahdi Saleh, Nassir Navab</i>	Poster 2
484	Image Distillation for Safe Data Sharing in Histopathology <i>Zhe Li, Bernhard Kainz</i>	Poster 2

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494	Class-aware Mutual Mixup with Triple Alignments for Semi-Supervised Cross-domain Segmentation <i>Zhuotong Cai, Jingmin Xin, Tianyi Zeng, Siyuan Dong, Nanning Zheng, James S. Duncan</i>	Poster 1
495	IHCSurv: Effective Immunohistochemistry Priors for Cancer Survival Analysis in Gigapixel Multi-stain Whole Slide Images <i>Yejia Zhang, Hanqing Chao, Zhongwei Qiu, Wenbin Liu, Yixuan Shen, Nishchal Sapkota, Pengfei Gu, Danny Z. Chen, Le Lu, Ke Yan, Dakai Jin, Yun Bian, Hui Jiang</i>	Poster 2
498	Coarse-to-Fine Latent Diffusion Model for Glaucoma Forecast on Sequential Fundus Images <i>Yuhan Zhang, Kun Huang, Xikai Yang, Xiao Ma, Jian Wu, Ningli Wang, Xi Wang, Pheng-Ann Heng</i>	Poster 6
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1928	Ensembled Cold-Diffusion Restorations for Unsupervised Anomaly Detection <i>Sergio Naval Marimont, Vasilis Siomos, Matthew Baugh, Christos Tzelepis, Bernhard Kainz, Giacomo Tarroni</i>	Poster 1
1932	Automated Robust Muscle Segmentation in Multi-level Contexts using a Probabilistic Inference Framework <i>Jinge Wang, Guilin Chen, Xuefeng Wang, Nan Wu, Terry Jianguo Zhang</i>	Poster 1
1942	UrFound: Towards Universal Retinal Foundation Models via Knowledge-Guided Masked Modeling <i>Kai Yu, Yang Zhou, Yang Bai, Zhi Da Soh, Xinxing Xu, Rick Siow Mong Goh, Ching-Yu Cheng, Yong Liu</i>	Poster 4

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1946	Spatio-temporal neural distance fields for conditional generative modeling of the heart <i>Kristine Sørensen, Paula Diez, Jan Margeta, Yasmin El Youssef, Michael Pham, Jonas Jalili Pedersen, Tobias Kühl, Ole de Backer, Klaus Kofoed, Oscar Camara, Rasmus Paulsen</i>	Poster 4
1948	PhenDiff: Revealing Subtle Phenotypes with Diffusion Models in Real Images <i>Anis Bourou, Thomas Boyer, Marzieh Gheisari, Kévin Daupin, Véronique Dubreuil, Aurélie De Thonel, Valérie Mezger, Auguste Genovesio</i>	Poster 6
1949	VCLIPSeg: Voxel-wise CLIP-Enhanced model for Semi-Supervised Medical Image Segmentation <i>Lei Li, Sheng Lian, Zhiming Luo, Beizhan Wang, Shaozi Li</i>	Spotlight 9: Image Segmentation Poster 4
1951	GEM: Context-Aware Gaze EstiMation with Visual Search Behavior Matching for Chest Radiograph <i>Shaonan Liu, Wenting Chen, Jie Liu, Xiaoling Luo, Linlin Shen</i>	Poster 1
1953	A New Perspective to Boost Performance Fairness For Medical Federated Learning <i>Yunlu Yan, Lei Zhu, Yuexiang Li, Xinxing Xu, Rick Siow Mong Goh, Yong Liu, Salman Khan, Chun-Mei Feng</i>	Poster 1
1955	Brain-Shift: Unsupervised Pseudo-Healthy Brain Synthesis for Novel Biomarker Extraction in Chronic Subdural Hematoma <i>Baris Imre, Elina Thibeau-Sutre, Jorieke Reimer, Kuan Kho, Jelmer M. Wolterink</i>	Poster 6
1957	Leveraging Coarse-to-Fine Grained Representations in Contrastive Learning for Differential Medical Visual Question Answering <i>Xiao Liang, Yin Wang, Di Wang, Zhicheng Jiao, Haodi Zhong, Mengyu Yang, Quan Wang</i>	Poster 5
1958	IPLC: Iterative Pseudo Label Correction Guided by SAM for Source-Free Domain Adaptation in Medical Image Segmentation <i>Guoning Zhang, Xiaoran Qi, Bo Yan, Guotai Wang</i>	Poster 4
1964	LoCI-DiffCom: Longitudinal Consistency-Informed Diffusion Model for 3D Infant Brain Image Completion <i>Zihao Zhu, Tianli Tao, Yitian Tao, Haowen Deng, Xinyi Cai, Gaofeng Wu, Kaidong Wang, Haifeng Tang, Lixuan Zhu, Zhuoyang Gu, Dinggang Shen, Han Zhang</i>	Poster 3
1977	On Instabilities of Unsupervised Denoising Diffusion Models in Magnetic Resonance Imaging Reconstruction <i>Tianyu Han, Sven Nebelung, Firas Khader, Jakob Nikolas Kather, Daniel Truhn</i>	Poster 1
1980	EchoTracker: Advancing Myocardial Point Tracking in Echocardiography <i>Md Abulkalam Azad, Artem Chernyshov, John Nyberg, Ingrid Tveten, Lasse Lovstakken, Håvard Dalen, Bjørnar Grenne, Andreas Østvik</i>	Poster 5
1997	Label-guided Teacher for Surgical Phase Recognition via Knowledge Distillation <i>Jiale Guan, Xiaoyang Zou, Rong Tao, Guoyan Zheng</i>	Poster 6

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2001	Robust Semi-supervised Multimodal Medical Image Segmentation via Cross Modality Collaboration <i>Xiaogen Zhou, Yiyu Sun, Min Deng, Winnie Chiu Wing Chu, Qi Dou</i>	Poster 4
2008	Progressive Growing of Patch Size: Resource-Efficient Curriculum Learning for Dense Prediction Tasks <i>Stefan M. Fischer, Lina Felsner, Richard Osuala, Johannes Kiechle, Daniel M. Lang, Jan C. Peeken, Julia A. Schnabel</i>	Poster 1
2009	Disease Progression Prediction Incorporating Genotype-Environment Interactions: A Longitudinal Neurodegenerative Disorder Study <i>Jin Zhang, Muheng Shang, Yan Yang, Lei Guo, Junwei Han, Lei Du</i>	Poster 3
2012	Unsupervised Latent Stain Adaptation for Computational Pathology <i>Daniel Reisenbüchler, Lucas Luttner, Nadine S. Schaadt, Friedrich Feuerhake, Dorit Merhof</i>	Poster 2
2014	Anatomical Structure-Guided Medical Vision-Language Pre-training <i>Qingqiu Li, Xiaohan Yan, Jilan Xu, Runtian Yuan, Yuejie Zhang, Rui Feng, Quanli Shen, Xiaobo Zhang, Shujun Wang</i>	Poster 3
2017	Algebraic Sphere Surface Fitting for Accurate and Efficient Mesh Reconstruction from Cine CMR Images <i>Jin He, Weizhou Liu, Shifeng Zhao, Yun Tian, Shuo Wang</i>	Poster 1
2020	BPaCo: Balanced Parametric Contrastive Learning for Long-tailed Medical Image Classification <i>Zhiyuan Cai, Tianyunxi Wei, Li Lin, Hao Chen, Xiaoying Tang</i>	Poster 3
2022	D-CoRP: Differentiable Connectivity Refinement for Functional Brain Networks <i>Haoyu Hu, Hongrun Zhang, Chao Li</i>	Poster 2
2030	Advancing UWF-SLO Vessel Segmentation with Source-Free Active Domain Adaptation and a Novel Multi-Center Dataset <i>Hongqiu Wang, Xiangde Luo, Wu Chen, Qingqing Tang, Mei Xin, Qiong Wang, Lei Zhu</i>	Poster 4
2031	RoCoSDF: Row-Column Scanned Neural Signed Distance Fields for Freehand 3D Ultrasound Imaging Shape Reconstruction <i>Hongbo Chen, Yuchong Gao, Shuhang Zhang, Jiangjie Wu, Yuexin Ma, Rui Zheng</i>	Oral 15: Clinical translation: Neuro, spine and ultrasound Poster 6
2040	Across-subject ensemble-learning alleviates the need for large samples for fMRI decoding <i>Himanshu Aggarwal, Liza Al-Shikhley, Bertrand Thirion</i>	Poster 2

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2051	Generating Progressive Images from Pathological Transitions via Diffusion Model <i>Zeyu Liu, Tianyi Zhang, Yufang He, Guanglei Zhang</i>	Poster 2
2052	The MRI Scanner as a Diagnostic: Image-less Active Sampling <i>Yuning Du, Rohan Dharmakumar, Sotirios A. Tsaftaris</i>	Poster 1
2053	A Novel Tracking Framework for Devices in X-ray Leveraging Supplementary Cue-Driven Self-Supervised Features <i>Saahil Islam, Venkatesh N. Murthy, Dominik Neumann, Serkan Cimen, Puneet Sharma, Andreas Maier, Dorin Comaniciu, Florin C. Ghesu</i>	Poster 6
2059	Self-Supervised Contrastive Graph Views for Learning Neuron-level Circuit Network <i>Junchi Li, Guojia Wan, Minghui Liao, Fei Liao, Bo Du</i>	Poster 2
2068	Vestibular schwannoma growth prediction from longitudinal MRI by time-conditioned neural fields <i>Yunjie Chen, Jelmer M. Wolterink, Olaf M. Neve, Stephan R. Romeijn, Berit M. Verbist, Erik F. Hensen, Qian Tao, Marius Staring</i>	Poster 3
2078	Pathological Semantics-Preserving Learning for H&E-to-IHC Virtual Staining <i>Fuqiang Chen, Ranran Zhang, Boyun Zheng, Yiwen Sun, Jiahui He, Wenjian Qin</i>	Poster 6
2081	DnFPlane For Efficient and High-Quality 4D Reconstruction of Deformable Tissues <i>Ran Bu, Chenwei Xu, Jiwei Shan, Hao Li, Guangming Wang, Yanzi Miao, Hesheng Wang</i>	Poster 4
2088	DeepRepViz: Identifying potential confounders in deep learning model predictions <i>Roshan Prakash Rane, JiHoon Kim, Arjun Umesha, Didem Stark, Marc-André Schulz, Kerstin Ritter</i>	Poster 1
2090	3D-SAutoMed: Automatic Segment Anything Model for 3D Medical Image Segmentation from Local-Global Perspective <i>Junjie Liang, Peng Cao, Wenju Yang, Jinzhu Yang, Osmar R. Zaiane</i>	Poster 4
2092	SALI: Short-term Alignment and Long-term Interaction Network for Colonoscopy Video Polyp Segmentation <i>Qiang Hu, Zhenyu Yi, Ying Zhou, Fang Peng, Mei Liu, Qiang Li, Zhiwei Wang</i>	Oral 12: Surgical Data Science Poster 6
2095	CINA: Conditional Implicit Neural Atlas for Spatio-Temporal Representation of Fetal Brains <i>Maik Dannecker, Vanessa Kyriakopoulou, Lucilio Cordero-Grande, Anthony N. Price, Joseph V. Hajnal, Daniel Rueckert</i>	Poster 5

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2135	LB-UNet: A Lightweight Boundary-assisted UNet for Skin Lesion Segmentation <i>Jiahao Xu, Lyuyang Tong</i>	Poster 4
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2150	Medical Cross-Modal Prompt Hashing with Robust Noisy Correspondence Learning <i>Yishu Liu, Zhongqi Wu, Bingzhi Chen, Zheng Zhang, Guangming Lu</i>	Poster 3
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2162	Understanding Brain Dynamics Through Neural Koopman Operator with Structure-Function Coupling <i>Chiyuen Chow, Tingting Dan, Martin Styner, Guorong Wu</i>	Poster 2
2165	Integrative Graph-Transformer Framework for Histopathology Whole Slide Image Representation and Classification <i>Zhan Shi, Jingwei Zhang, Jun Kong, Fusheng Wang</i>	Poster 2
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2187	Few-Shot Lymph Node Metastasis Classification Meets High Performance on Whole Slide Images via the Informative Non-Parametric Classifier <i>Yi Li, Qixiang Zhang, Tianqi Xiang, Yiqun Lin, Qingling Zhang, Xiaomeng Li</i>	Poster 2

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2215	Universal Topology Refinement for Medical Image Segmentation with Polynomial Feature Synthesis <i>Liu Li, Hanchun Wang, Matthew Baugh, Qiang Ma, Weitong Zhang, Cheng Ouyang, Daniel Rueckert, Bernhard Kainz</i>	Poster 1
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2259	MeshBrush: Painting the Anatomical Mesh with Neural Stylization for Endoscopy <i>John J. Han, Ayberk Acar, Nicholas Kavoussi, Jie Ying Wu</i>	Poster 6
2260	Large-Scale 3D Infant Face Model <i>Till N. Schnabel, Yoriko Lill, Benito K. Benitez, Prasad Nalabothu, Philipp Metzler, Andreas A. Mueller, Markus Gross, Baran Gözcü, Barbara Solenthaler</i>	Oral 8: Image Registration Poster 5
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2265	ModelMix: A New Model-Mixup Strategy to Minimize Vicinal Risk across Tasks for Few-scribble based Cardiac Segmentation <i>Ke Zhang, Vishal M. Patel</i>	Poster 1
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2276	Uncovering Cortical Pathways of Prion-like Pathology Spreading in Alzheimer’s Disease by Neural Optimal Mass Transport <i>Yanquan Huang, Tingting Dan, Won Hwa Kim, Guorong Wu</i>	Poster 2
2277	SimBrainNet: Evaluating Brain Network Similarity for Attention Disorders <i>Debashis Das Chakladar, Foteini Simistira Liwicki, Rajkumar Saini</i>	Oral 15: Clinical translation: Neuro, spine and ultrasound Poster 6

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2280	Ensemble of Prior-guided Expert Graph Models for Survival Prediction in Digital Pathology <i>Vishwesh Ramanathan, Pushpak Pati, Matthew McNeil, Anne L. Martel</i>	Poster 5
2281	TADM: Temporally-Aware Diffusion Model for Neurodegenerative Progression on Brain MRI <i>Mattia Litrico, Francesco Guarnera, Mario Valerio Giuffrida, Daniele Ravi, Sebastiano Battiato</i>	Poster 3
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2333	MEDBind: Unifying Language and Multimodal Medical Data Embeddings <i>Yuan Gao, Sangwook Kim, David E Austin, Chris McIntosh</i>	Poster 4
2336	UnWave-Net: Unrolled Wavelet Network for Compton Tomography Image Reconstruction <i>Ishak Ayad, Cécilia Tarpau, Javier Cebeiro, Mai K. Nguyen</i>	Oral 7: Health Equity: Low resource settings Poster 3
2346	Reliable Multi-View Learning with Conformal Prediction for Aortic Stenosis Classification in Echocardiography <i>Ang Nan Gu, Michael Tsang, Hooman Vaseli, Teresa Tsang, Purang Abolmaesumi</i>	Poster 3
2347	Volumetric Conditional Score-based Residual Diffusion Model for PET/MR Denoising <i>Siyeop Yoon, Matthew Tivnan, Rui Hu, Yuang Wang, Young-don Son, Dufan Wu, Xiang Li, Kyungsang Kim, Quanzheng Li</i>	Poster 6
2349	Reliable Source Approximation: Source-Free Unsupervised Domain Adaptation for Vestibular Schwannoma MRI Segmentation <i>Hongye Zeng, Ke Zou, Zhihao Chen, Rui Zheng, Huazhu Fu</i>	Poster 3
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2368	FedMRL: Data Heterogeneity Aware Federated Multi-agent Deep Reinforcement Learning for Medical Imaging <i>Pranab Sahoo, Ashutosh Tripathi, Sriparna Saha, Samrat Mondal</i>	Poster 1
2372	MetaStain: Stain-generalizable Meta-learning for Cell Segmentation and Classification with Limited Exemplars <i>Aishik Konwer, Prateek Prasanna</i>	Poster 1

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2374	Phy-Diff: Physics-guided Hourglass Diffusion Model for Diffusion MRI Synthesis <i>Juanhua Zhang, Ruodan Yan, Alessandro Perelli, Xi Chen, Chao Li</i>	Poster 6
2376	Fuzzy Attention-based Border Rendering Network for Lung Organ Segmentation <i>Sheng Zhang, Yang Nan, Yingying Fang, Shiyi Wang, Xiaodan Xing, Zhifan Gao, Guang Yang</i>	Poster 4
2377	LaB-GATr: geometric algebra transformers for large biomedical surface and volume meshes <i>Julian Suk, Baris Imre, Jelmer M. Wolterink</i>	Poster 2
2384	WiNet: Wavelet-based Incremental Learning for Efficient Medical Image Registration <i>Xinxing Cheng, Xi Jia, Wenqi Lu, Qiufu Li, Linlin Shen, Alexander Krull, Jinming Duan</i>	Poster 5
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