

* The following papers have been accepted as oral presentations in the special session. For details of the program, including invited talks in each special session, please refer to the information provided for each special session.

Parallel SS 15:00-17:00 (Thu 20 Nov)

SS5 Room: Auditorium

Title: Computer Vision and Language Understanding: Transformers in Image Analysis and Text Understanding in Medicine

Presentation ID	Paper ID	Title	Authors
	PS1-1	257 Efficient Transformer-based SAR Ship Detection with Hybrid Cross-Fusion Modules	Xinchí Zhao
	PS1-2	584 MRI data	Bharti Rana, Akanksha Upadhyay
	PS1-3	605 BMS ³ : Bayesian Modeling Based SwinUNet Segmentation on Self-distillation Architecture	Jiecheng Liao, Ruijie Hu, Junhao Lu, Weifeng Su, Shi He, Yixuan Ji, Liangfu Chen
	PS1-4	741 Microscopy Images	Kazuki Shimizu, Yukako Tohsato
	PS1-5	1036 Screening	Zhang
	PS1-6	1193 GUIDE: Generative Understanding Injection for Dense Estimation via Enhanced Shape Coherence	SHENGYE YANG, Jie Liu, Qingyang Zhang

SS7 Room: Meeting

Title: Imitation learning and latent models applicable to real-world robotics

Presentation ID	Paper ID	Title	Authors
	PS2-1	366 Parameter-Space Policy Composition for Sim-to-Real Transfer in Quadruped Locomotion Control	Satoshi Yamamori, Yuta Goto, Satoshi Yagi, Jun Morimoto
	PS2-2	487 Audio-Guided Dynamic Modality Fusion with Stereo-Aware Attention for Audio-Visual Navigation	Jia Li, Yinfeng Yu, Liejun Wang, Fuchun Sun, Wendong Zheng
	PS2-3	910 Hindsight Experience Replay	Zhenyao Bi, Ping Zhong, Bolei Chen
	PS2-4	1129 Human-in-the-loop Generative Policy Learning from Demonstrations and Preferences	Uchibe Eiji

SS4 Room: B250

Title: Toward a Society Implementing Brain-Inspired AGI

Presentation ID	Paper ID	Title	Authors
	PS3-1	890 Interpretable Anomaly Detection in a Hippocampal Formation-Inspired Spatial Cognition Model	Takeshi Nakashima, Akira Taniguchi, Tadahiro Taniguchi, Hiroshi Yamakawa
	PS3-2	1025 Alignment with Psychological Concept Network	Hiroaki Hamada, Hiro Taiyo Hamada, Yuto Harada
	PS3-3	1084 Decentralized Belief Propagation in LLM Agents: A Brain-Inspired Approach to AI Safety Analysis	Yusuke Hayashi, nan

SS8 Room: C209

Title: Deep Learning Applications for Smart Agriculture

Presentation ID	Paper ID	Title	Authors
	PS4-1	318 Object Detection of UAV Aerial Images	Yan Gui, Ruojun Guo, Jianming Zhang, Fengling Li
	PS4-2	802 Addressing Capture Bias in Tomato Disease Classification with Deep Transfer Learning	Petinin, Xiangtao Li, Ka-Chun Wong
	PS4-3	980 NDRL: Cotton Irrigation and Nitrogen Application with Nested Dual-Agent Reinforcement Learning	Ruifeng Xu, Liang He
	PS4-4	1125 Detection	Hongli Yuan, Ying Shi, Xi Guan, Jin Zheng, Yeye Wei, Rui Mao

SS6 Room: C210

Canceled

Special Session (SS2) 17:20-19:00 (Fri 21 Nov) Room: Auditorium

Title: Generative AI and Deep Learning for Advancing Affective Human-Robot Interaction

Presentation ID	Paper ID	Title	Authors
		Parameter-Efficient Fine-Tuning Based on Decomposed Convolutional Kernel in Mixture-of-Experts	
	MS1-1	234 Architecture	Jinwei Yu, Hwei Yu
		Enhancing Multimodal Emotion Recognition via Multi-Feature Encoding and Attention-Based	
	MS1-2	436 Fusion	Xu Lin, Ke Wang, Hui Kang, Xinying Wang
	MS1-3	748 Style-Aware Music-to-Dance Generation via Multi-Stage Unit Decomposition and Recombination	Jinjia Zhou, Yufei Gao, Qian Wu, Keren He
	MS1-4	794 GRAIL: Guided Retrieval via Layer-wise Discrepancy from Extrapolated Final Distributions	Kexin Liu, Hongkuan Zhang, Zhaoyang Liu, Shuwang Zhou

Special Session (SS1) 17:00-18:40 (Sat 22 Nov) Room: Auditorium

Title: Sustainable Smart Villages – Harnessing Edge AI and TinyML for Low-Resource Communities

Presentation ID	Paper ID	Title	Authors
	MS2-1	48 Gating-TinyLLaVA: A Compact Multimodal Model with Dual Visual Encoders	Xuanang Zhang, Yuezhong Wu, Lingjiao Chen, Xi Chen
	MS2-2	316 A Voice-based Gender and Age Recognition System on Devices with Low Computational Resources	Haoxuan Li, Yonghui Rao
	MS2-3	795 Sparse Spectral Transformer: Dynamic Frequency-Aware Attention for Scalable Multimodal Fusion	Ruoyao Cai
		LERIS: an Energy-Efficient and Resource-Optimized Inference System for CNNs and MLPs in Edge AI	
	MS2-4	856 Applications	Phuc Van Le, Thanh-Dat Van Nguyen, Tran Ngoc Thinh, Huynh Phuc Nghi, Long Tan Le
	MS2-5	1119 Design of Collective Housing Based on Airflow and Geometric Forms	Satoru Morita

Special Session (SS3) 17:00-18:40 (Sun 23 Nov) Room: Auditorium

Title: Reliable, Robust and Secure Machine Learning Algorithms

Presentation ID	Paper ID	Title	Authors
		\$Ada-TransGNN for Air Quality Prediction\$: An Air Quality Prediction Model Based On Adaptive	
	MS3-1	239 Graph Convolutional Networks	Dan Wang, Feng Jiang, Zhanquan Wang
		Fitness-Driven Evolutionary Federated Learning: Adaptive Client Selection and Dynamic	
	MS3-2	341 Population for Communication Efficiency	Yichun Yu, Yuqing Lan, Xiaoyi Yang, Zhihuan Xing, Han Zheng, Dan Yu
	MS3-3	981 Matrix Completion with Fuzzy Sampling for Network Traffic Measurement	Chusheng Liu, Yifei Zhang, Nina Shu, Chunsheng Liu, Chunlai Ma, Chao Chang, Tao Wu
	MS3-4	407 Performance Evaluation of Validity Indices on Evolutionary K-Means Clustering	Abiodun Motunrayo Ikotun, Faustin Habyarimana, Absalom El-Shamir Ezugwu

Oral 1 10:20-12:00 (Fri 21 Nov)

Title: Student Best Paper Award Session

Presentation ID	Paper ID	Title	Authors
O1-1	78	Item Popularity Attention for Mitigating Popularity Bias	Zhewei Ding, Runxiong Liu, Mingwei Lin, Shenbao Yu, Jiayin Lin
O1-2	565	MVGT: A Multi-view Graph Transformer Based on Spatial Relations for EEG Emotion Recognition	Yanjie Cui, Xiaohong Liu, Jing Liang, Yamin Fu
O1-3	932	Diverse Neural Sequences in QIF Networks: An Analytically Tractable Framework for Synfire Chains and Hippocampal Replay	Genki Shimizu, Taro Toyoizumi
O1-4	1022	Block-structured Bayesian source estimation model for magnetoencephalography signals	Kai Miyazaki, Okito Yamashita, Yoichi Miyawaki
O1-5	1141	Multi-granularity Complex Question Answering Over Temporal Knowledge Graphs	Jiahui Yang, Yifu Gao, Linbo Qiao, Ruchen Yi, Lang Yuan

Oral 2 13:00-15:00 (Fri 21 Nov)

Title: Best Paper Award Session

Presentation ID	Paper ID	Title	Authors
O2-1	30	SDSP: Scalable and Diverse Synthetic Pairwise Text Generation from Web Corpus Using Large Language Model	Xiaoxu Wu, Xi Li, Wentao Wu, Aleksei Timofeev, Yinfei Yang, Meng Cao, Ping Huang, Si Li, Jiulong Shan
O2-2	136	Revisiting 16-bit Neural Network Training: A Practical Approach for Resource-Limited Learning	Juyoung Yun, Sol Choi, Francois Rameau, Byungkun Kang, Zhoulai Fu
O2-3	610	Smart Video Capsule Endoscopy: Raw Image-Based Localization for Enhanced GI Tract Investigation	Oliver Bause, Julia Werner, Paul Palomero Bernardo, Oliver Bringmann
O2-4	919	DFIR-Metric: A Benchmark Dataset for Evaluating Large Language Models in Digital Forensics and Incident Response	Bilel Cherif, Tamas Bisztray, Richard A. Dubniczky, Aaisha Aldahmani, Saeed Alshehhi, Norbert Tihanyi
O2-5	1060	EEG-based Phase-amplitude Coupling in Computational Modeling During Audiovisual Bistable Perception	sahar Zakeri, Osamu Araki
O2-6	1064	Reward-Independent Messaging for Decentralized Multi-Agent Reinforcement Learning	Naoto Yoshida, Tadahiro Taniguchi

Oral 3 10:20-11:40 (Sat 22 Nov)

Title: Deep Learning: Architectures and Optimization

Presentation ID	Paper ID	Title	Authors
O3-1	2	Emergence of Fixational and Saccadic Movements in a Multi-Level Recurrent Attention Model for Vision	Pengcheng Pan, Shogo Yonekura, Yasuo Kuniyoshi
O3-2	373	Comparison-based Beam Search for Constructive NCO Approaches	Xinwei Chen, Huiyuan Tian, Li Zhang, Runhe Huang, Shijian Li
O3-3	495	Optimization Design of Adaptive Loss Function Using Evolutionary Neural Networks	Xiang Meng, Zhaoyang Hai, Xiabi Liu, Yan Pei
O3-4	648	Collaborative Perceiver: Elevating Vision-based 3D Object Detection via Local Density-Aware Dense Spatial Occupancy	Jicheng Yuan, Manh Duc-Nyugen, Qian Liu, Manfred Hauswirth, Danh Le-Phuoc

Oral 4 13:00-14:40 (Sat 22 Nov)

Title: Computational Neuroscience and Brain Analysis

Presentation ID	Paper ID	Title	Authors
O4-1	129	Fine and dynamic functional modules of local field potentials in the lateral prefrontal cortex of monkeys	Kotaro Hironaka, Kazuhiro Sakamoto, Norihiko Kawaguchi, Hajime Mushiake, Kazushi Ikeda
O4-2	654	Prompting Large Language Models for fMRI-Based Brain Semantic Decoding	Anna Sato, Ichiro Kobayashi
O4-3	792	A Predictive Map Model of Place Cells Learned from Grid Cell Activity in Continuous Spatial Environments	Yusuke Kuniyoshi, Tadashi Yamazaki
O4-4	952	Biophysical Simulation of the Effects of Transcranial Magnetic Stimulation (TMS) on a Cortical Column	Masaharu Yonezawa, Kaaya Alira, Tadashi Yamazaki
O4-5	1013	Multi-Session Meditative EEG Classification with Noise-Robust Self-Supervision	Zuxin Song, Fei Cheng, Mingyu Gou, Tianzhen Chen, Bao-Liang Lu, Jiang Du, Wei-Long Zheng

Oral 5 10:20-12:00 (Sun 23 Nov)

Title: Generative AI and Information Security

Presentation ID	Paper ID	Title	Authors
O5-1	69	CLIP-Guided Adversarial Example Detection via Latent Mutual Information	Jun Ma, PengJu Wang, Jing Liu
O5-2	301	Orthogonal Frequency-Spatial Gradient Fusion Attack for Boosting Adversarial Transferability	Qingpei Zhao, Zhenyu Liang, Siqi Huang, Shijie Zhao, Anjie Peng, Hui Zeng
O5-3	403	Mind Map-Guided Meta-Prompting for ADHD Intervention with Large Language Models	Yingqi Wang, Xuguang Qiu, Kehui Song, Rize Jin, Hongbo Zhao
O5-4	516	Enhancing Prompting with Deep Understanding and Extended Reasoning for Solving Mathematical Problems	Zhiwei Yang, Rongxin Huo, Jiahua Yang, Longtao Wang, Yuxuan Zhou
O5-5	594	PFMF-Net: Progressive Feedback Network with Multi-Feature for Image Tampering Localization	Shihao Lu, De Li, Xun Jin, Xian Yang

Oral 6 13:00-14:40 (Sun 23 Nov)

Title: AI for Healthcare and Data Analysis

Presentation ID	Paper ID	Title	Authors
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O6-1	492	Superpixel-Enhanced Quaternion Feature Fusion and Contextualization Graph Contrastive Learning for Cervical Cancer Diagnosis	Jiajun Ma, Guoheng Huang, Xiaochen Yuan, Xuhang Chen, Jiawang Chen, Lianglun Cheng, Chi-Man Pun, Guo Zhong, Qingjian Ye
O6-2	512	Quantifying Motor Adaptation: A Hybrid AI Approach for Interpreting Short-Term Gait Variability	Basma Jalloul, Bassem Bouaziz, Walid Mahdi, Achraf Ammar, Wolfgang Schöllhorn
O6-3	539	Multi-view Cancer Subtype Identification based on a Dual-channel Encoder and Cauchy-Schwarz Divergence	Wenzhe Liu, Yong Zhang, Kun Liu, Jiongcheng Zhu
O6-4	612	A Hybrid Sampling Algorithm Based on Generative Adversarial Networks and Reinforcement Learning for Medical Insurance Fraud Detection	Yaping Zhao, Longfeng Wang, Gustave Florentin Nkoulou Mvondo, Xing Yang
O6-5	1108	ISSD-NET : Intra-Student Self-Distillation with Adaptive q-vMF Loss for Enhanced Semi-Supervised Medical Segmentation	Guoheng Huang, Haowen Li, Guoheng Huang, Xiaochen Yuan, Yan Li, Chi-Man Pan, Baiying Lei, Zhixing Huang

Poster 1 15:20-17:20 (Fri 21 Nov)

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P1-1	175	MSER-Whisper : Mongolian Speech Emotion Recognition Based on the Whisper	Ren Qing-Dao-Er-Ji, Qian Bo, Shuai Yuan, Yatu Ji, Nier Wu
P1-2	203	LNAHGN: LLM-Guided Neighbor Aggregation for Heterogeneous Graph Neural Network	Chenhao Zhang, Fengge Wu, Hang Gao
P1-3	214	Implicit Hate Speech Detection via Soft Prompt-tuning	Han Wang, Yi Zhu, Yun Li, Chaowei Zhang, Yunhao Yuan, Jipeng Qiang
P1-4	268	Synergistic-RAG: A Framework for Reliable LLM Generation via Hybrid Retrieval and Semantic Refinement	Xueying Liu, Jing Yun, Bo Li, Yuying Zhang, Xiaoguo Shi
P1-5	354	Towards Urban Semantic Cognition: Investigating the Capability of LLMs in Understanding Urban Areas	Mingzhe Liu, Zihang Xu, Kangting Xu, Tongyu Zhu, Leilei Sun
P1-6	383	ReLOpt: A Retriever-Augmented Framework for Optimizing Code with Long-range Dependencies	Lei Qiu, Fang Lyu, Ming Zhong, Lulin Wang, Xiaobing Feng
P1-7	432	Hierarchical Emotion Transformer for Multimodal Joint Emotion Category and Intensity Recognition	Bao-Liang Lu, Tian-fang Ma, Wei-Bang Jiang, Wei-Long Zheng
P1-8	444	CoFi-VisRAG: Coarse-to-Fine Visual Retrieval-Augmented Generation for Multimodal Documents	Chunming Liu, Yanping Zhang, Zibo Yi, Minghao Hu, Tongtong Duan, Sijia Wang, Guotong Geng, Wei Luo, Zhunchen Luo
P1-9	538	ACReNet: A Knowledge-Enhanced Neural Framework for High-Precision Audio Reconstruction from Basilar-Membrane Motion	He Xu, Wei Zhang
P1-10	546	CSEQL-Llama: A Text-to-CSEQL Framework Based on Multi-Agent Collaborative Data Synthesis and Parameter-Efficient Fine-Tuning	Ye Li, Jinfeng Peng, Lirong Yang, Yuwei Li, Fan Shi, Pengfei Xue, Chengxi Xu
P1-11	636	Mitigate Hallucinations in LLM's Understanding of Dynamic Graph: an In-depth Evaluation and Enhancement	Yuou Chen, Ruixing Zhang, Yunqi Liu, Tongyu Zhu, Mingzhe Liu, Weifeng lv
P1-12	676	DMBL: Dual-Stage Multimodal Balanced Learning for Multimodal Sentiment Analysis	Yiyang Tang, Qian Chen, Nanjie Zheng, Ning Luo
P1-13	701	Entropy-Aware Fusion Speculative Decoding for Reliable and Efficient Domain Text Generation	Qing Xiao, Zheng Chen, Chenlin Wang, Yun Bian
P1-14	745	QR-MSRF: Query Rewriting with Multi-Stage Retrieval Feedback in Retrieval-Augmentation Generation	Guangdong Zhang, Zhigang Zhao, Chuantao Li, Jintao Li, Yan Liu, Yuxin Wang, Chuanxiang Li
P1-15	900	Large Language Model-Driven Multi-Agent Collaborative Framework for Chinese Grammatical Error Correction	Xiaoqiang Wang, Chengrui Qi, Nier Wu
P1-16	926	Turbo-TTS: Enhancing Diffusion Model TTS with an Improved ODE Solver	Xulong Zhang, Jiashu Wang, Xiaoyang Qu, Hui Tian, Jianzong Wang
P1-17	935	AoPSFT: Subplan-Aware Fine-Tuning for Interpretable Multi-Turn Reasoning Agents	Xufeng Zhou, Jiakai Geng, Chiyu Cai, Linjing Li, Daniel Dajun Zeng
P1-18	951	MSISA: A Modality-Specific Interaction Network with Semantic Alignment for Multimodal Sentiment Analysis	Yuanyi Zhao, Mingze Zhang
P1-19	972	Exemplar-Guided Planning: Enhanced LLM Agent for KGQA	Bin Zhou, Jingao Xu, Shuoyoucheng Ma, Xin Song, Rong Jiang, Hongkui Tu
P1-20	1134	DHI: Leveraging Diverse Hallucination Induction for Enhanced Contrastive Factuality Control in Large Language Models	Jiani Guo, Xiangke Zeng, Jie Wu, Zuchao Li
P1-21	1148	Entity Similarity RAG: Enhancing LLM Answers with Precise Knowledge Graph Retrieval	Zhenghan Wang, Bo Peng, Hanzhe Tu, Xu Li
P1-22	13	Embedding-Based Sparse Retrieval in E-Commerce Search	Tao Feng, Lei Wang, Jiyuan He, Sheng Xu, Yunchuan Lin, Yuxin Cheng, Wei Yin, Di Wang
P1-23	38	Time Cost for Cluster Consensus of Multi-agent Systems with Switching Control	Guanghui Wen, Jiaqi Chang, Haifeng Dai
P1-24	49	HSE-GFN: Multimodal Knowledge Graph Entity Alignment via Hierarchical Structure Encoding and Gated Fusion	Fuwen Tang, Yanhui Zhu, Zhixuan Zhang, Fangteng Man, Xujian Ying, Hao Chen, Zhipeng Gan
P1-25	123	Breaking the Heterophily Mixing Barrier in Graph Learning: A Mixed-Curvature Product Manifold Approach	Lizhi Liu
P1-26	189	Efficient Inter-Task Attention for Multitask Transformer Models	Christian Bohn, Thomas Kurbel, Klaus Friedrichs, Hasan Tercan, Tobias Meisen
P1-27	200	Asymptotic Accuracy Analysis of Fast Simulation-Calibration Model Bridge	Keisuke Yamazaki
P1-28	210	Deep Graph Knowledge Tracing with Multi-head Self-attention and Forgetting Mechanism	Luqiang Xu, Qiancheng Liu
P1-29	306	Successive Mouse Movement: Dual-Phase Adaptation with Pre-balancing and Test-Time Learning	Jingyi Feng, Yong Luo, Anke Tang, Xuxu Liu
P1-30	337	SEDEG: Sequential Enhancement of Decoder and Encoder's Generality for Class Incremental Learning with Small Memory	Shaoling Pu, Hongyang Chen, Lingyu Zheng, Zhongwu Sun
P1-31	420	Variance-Aware Scaling Loss for Enhanced Differentiable Architecture Search	Boyu Wang, Yong Zhong
P1-32	445	Making Robust Generalizers Less Rigid with Loss Concentration	Matthew J. Holland, Toma Hamada
P1-33	446	DG-IVF: A Dual-Gated IMU-Vision Fusion Method for Efficient HAR	Timin Li, Dongmei Li, Yuepeng Chen, Yihe Wang, Xuefeng Feng, Ye Ma, Dongwei Liu, Ji Wu, Chenyi Guo
P1-34	580	Multi-head Low-Rank Adaptation for Parameter-Efficient Fine-Tuning	Xuan Deng, Juan Xu, PiJi Li
P1-35	600	Context-Aware Policy-Guided Gradient Search for Offline Model-Based Optimization	Mingcheng Chen, Haoran Zhao, Weinan Zhang, Yong Yu
P1-36	671	HarmonyTrain: A Hybrid Parallel Training Method for Deep Learning Models in Dual-Heterogeneous Environments	Jintao Li, Chuantao Li, Chunxiao Wang, Zhigang Zhao, Guangdong Zhang, Zhiwei Zhou, Yuxin Wang, Yan Xu, Fulai Liu, Anbang Li
P1-37	746	Mitigating Oversmoothing in GNNs Across Diverse Graph Domains	MONIKA VARSHNEY, TANIMA DUTTA
P1-38	797	AstroSpectra-MNIST: An Astronomical Spectral Dataset for Benchmarking Machine Learning Algorithms	Qiankun Wu, Yungao Shi, Ke Wang, Ping Guo
P1-39	826	Frequency Spatial Hybrid Joint Source-Channel Coding with Channel Adaptive Attention Mechanism	Enze Cui, Shengjie Zhao, Weichao Chen
P1-40	836	Cross-Entropy Loss of Approximated Deep Neural Networks	Jiří Šíma, Petra Vidnerová

P1-41	960	Distorted Distributional Policy Evaluation for Offline Reinforcement Learning	Ryo Iwaki, Takayuki Osogami
P1-42	1033	Modularity Regularized Locality Preserving Projection	Ibuki Masuda, Yasunori Futamura, Jianbo Lin, Anh Khoa Augustin Lu, Ryo Tamura, Tsuyoshi Miyazaki, Tetsuya Sakurai
P1-43	1067	TULiP: Test-time Uncertainty Estimation via Linearization and Weight Perturbation	Takafumi Kanamori, Yuhui Zhang, Dongshen Wu, Yuichiro Wada
P1-44	1088	MCL-UC: Meta-Learning for Uncertainty-Aware Calibration in Complementary Label Learning	Chenhao Ye
P1-45	1091	Analysis of Majority Binary Neural Networks based on Simple Feature Quantities	Ryota Toyama, Toshimichi Saito
P1-46	1183	Non-negative Matrix Factorization for Joint Clustering and Topic Modeling with Minority Topics	Seyedeh Fatemeh Ebrahimi, Jaakko Peltonen
P1-47	148	A Novel Plug-and-Play method for LiDAR and 4D Radar Fusion	Pengfei Qi, Jinlai Zhang, Yan Su, Xiang Zou, Yi Huang, Yonggang Tong, Kaiming Wang, Qiqi Li, Lin Hu
P1-48	171	PointSC: A Novel Simplicial Complex-Based Neural Network for Point Cloud Classification	Xianwei Zheng, Xuran Yao, Zheng Yao, Xutao Li
P1-49	204	3SDeblur: Three-Stage Image Defocus Deblurring Guided by Residual Prior	Yihang Chen, Zhan Li, Boyang Yao, Xiaohan Li, Wenzhuo Wang, Qingliang Chen
P1-50	255	GaussianFocus: Constrained Attention Focus for 3D Gaussian Splatting	Zexu Huang, Min Xu, Stuart Perry
P1-51	272	DDRASR: Double Dimension Retractable Attention Super-Resolution	Haoyu Tian, Jiangbo Xu, Gaolin Yang, Zijian Xue
P1-52	339	DTMPose: Depth Transform-enhanced Mamba Pose Estimation Framework for Efficient 2D Keypoint Detection	Guanting Dong, Kei Kawamura
P1-53	639	GGMNet: Gradient Imagery-Guided Multi-Scale Feature Fusion for Remote Sensing Change Detection	Eksan Payzullam, Baokun Su, Guoxia Wang, Changle Yin, Gang Shi
P1-54	725	DPFD-DETR: Directional Prior guided Frequency Decomposition with Axial-Spatial Context Alignment	Chao Zhang, Wenhong Wu, Hengmao Niu, Bao Shi, Nier Wu
P1-55	774	DedustNet: A Large-scale Benchmark and Baseline for Sand Dust Video Enhancement	Linghui Ma, Gang Zhou, Mengzhen Xue, Gulisidan Abulizi, Li Zhang, Zhenhong Jia
P1-56	787	Automated Knot Detection and Pairing for Wood Analysis in the Timber Industry	Guohao Lin, Shidong Pan, Rasul Khanbayov, Changxi Yang, Ani Khaloian-Sarnaghi, Andriy Kovryga
P1-57	808	Enhancing Hyperspectral Remote Salient Object Detection via Spectral Recalibration, Multi-Scale Decoding, and Global Context Modeling	Pengxuan Liu, Wuzhen Shi, Yang Wen
P1-58	822	FSMNet: A Frequency-Aware and Stroke-Enhanced Multiscale Hash Network for Oracle Image Retrieval	Yanni Zuo, Zhongyuan Yang, Yongge Liu, Kurban Ubul
P1-59	841	PDS-YOLO: An improved insulator defect detection model based on YOLOv8	Jing Li, Haonan Sun
P1-60	853	RealCraft: Attention Control as A Tool for Zero-shot Consistent Video Editing	Shutong Jin, Ruiyu Wang, Florian Pokorny
P1-61	925	Mengzhen Xue, Gang Zhou, Linghui Ma, Li Zhang, Yanyun Zhou, Zhenhong Jia	MSVDNet: A Multi-Scale Video Desnowing Network for Real World
P1-62	1086	MINT: Memory-Infused Prompt Tuning at Test-time for CLIP	Jiaming Yi, Ruirui Pan, Jishen Yang, Xiulong Yang
P1-63	1113	WT-RT-DETR: A Wavelet Detector for Real-time Wood Defect Detection	Nannan Hu, Yufeng Zhao, Junjie Wang, Jinwei Zhang, Qifei Wang, Xianqi Meng, Guicong Zhang, Yuxin Song
P1-64	84	Efficient Medical Image Segmentation with Rectified Flow-Based Diffusion Transformer	Shunichi Kato, Masaki Nishimura, Takaya Ueda, Yu Song, Ikuko Nishikawa
P1-65	149	CMFDNet: Cross-Mamba and Feature Discovery Network for Polyp Segmentation	Feng Jiang, Zongfei Zhang, Xin Xu
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P1-67	447	Frequency Specific Effects of Oscillatory Inputs on Timing and Chaotic Time-Series Learning in Spiking Reservoir Computing	Jihoon Park, Yuji Kawai, Minoru Asada
P1-68	473	A Unified Framework for Fine-Grained Brain Network Representation Learning	Zuping Zhang, Xin Liu
P1-69	506	HMB-MCI: Multimodal detector of Mild Cognitive Impairment through Spontaneous Language Analysis	Zihui Deng, Boyuan Li, Wei Liu, Baha Ihnaini
P1-70	598	Advancing Complex-Valued Neural Networks with Product Units for MRI Reconstruction	Ziyuan Li, Uwe Jaekel, Babette Dellen
P1-71	756	Can Diffusion Models Bridge the Domain Gap in Cardiac MR Imaging?	Xin Ci Wong, Duygu Sarikaya, Kieran Zucker, Marc De Kamps, Nishant Ravikumar
P1-72	816	Evaluating on-off motor intermittency during virtual stick balancing using Bayesian data assimilation	Haruki Shimokado, Akihiro Nakamura, Yasuyuki Suzuki, Taishin Nomura
P1-73	848	Multi-modal Segmentation via Medical Image-Text Fusion with Hierarchical Cross-Attention	Xuezheng Sun, Tao Wan, Jiankun Xu, Zengchang Qin
P1-74	907	Efficient EEG Decoding with Multi-dimensional Interactions	Ruidong Ma, Xianghong Lin, Yaxi Lv, Lining Yan, Chengyang Xie
P1-75	992	Neural-CAT-SNN: Spike-driven Neural Decoder with Multi-scale Temporal Dynamic and Reparameterized Linear Attention	Yuqi Yang, Tengjun Liu, Haiyan Zhang, Nenggan Zheng, Shaomin Zhang
P1-76	1005	CAS-IQA: Teaching Vision-Language Models for Synthetic Angiography Quality Assessment	Bo Wang, De-Xing Huang, Xiao-Hu Zhou, Mei-Jiang Gui, Nu-Fang Xiao, Jian-Long Hao, Ming-Yuan Liu, Zeng-Guang Hou
P1-77	1011	Implicit Neural Representations for Brain Image Registration between Human and Marmoset	Keisuke Fujimoto, Shin Ishii, Rui Gong, Ken Nakae, Noritaka Ichinohe, Henrik Skibbe
P1-78	1160	Novel Neuron-Stability Weighted Dynamic Evolving Spiking Neural Network (NSW-deSNN) for Classification of fMRI Data	Maryam Doborjeh, Zohreh Doborjeh, Nikola Kasabov
P1-79	65	Isnooping: An Enhanced Traffic-based Multidimensional Privacy Snooping Attack	HaoDong Yue, Haozhen Zhang, Xi Xiao, Le Yu, Guangwu Hu, Qingsong Zou, Qing Li, Hao Li
P1-80	107	MPFT: Multi-Perspective Frequency Learning for Non-Stationary Time Series Forecasting	Jinglin Li, Tao Xie, kun Li, Weiwei Ye, Ning Gui

P1-81	155	AMFNVD: Addressing Two Kinds of Discrepancy Problems for Fake News Detection on Short Video Platforms	Yan Yang, Zeyun Cheng, Liyuan Zhang, yong Liu
P1-82	212	MARAGAN-IDS: A Bidirectional Residual GAN for Imbalanced Intrusion Detection	Yifan Liu, Jinduo Gao, Wenlei Chai, Yi Liu, Feng Fan
P1-83	237	Audio Replay Spoof Attack Detection by Joint F-ratio Adaptive Filter Bank of Silent Segment and Attention-Enhanced ResNeXt-50 Network	Jianpeng Cheng, Junliu Zhong, Jiaxin Mai, Sai Zhao
P1-84	300	FLARE-SSM: Deep State Space Models with Influence-Balanced Loss for 72-Hour Solar Flare Prediction	Yusuke Takagi, Shunya Nagashima, Komei Sugiura
P1-85	334	STOTFormer: A Transformer-Based Model for Vertical Offset Estimation in Underground Power Optical Cables	Wanchang Jiang, Chunzhen Li
P1-86	398	Greedy Batch Mode Query: An Active Learning Framework for Air Quality Monitoring Station Placement Location Recommendation	Meng Xu, Weijian Hu, Ke Han, Wen Ji
P1-87	443	Threshold-Bound Fuzzy Cognitive Maps for Spatial-Temporal Traffic Forecasting	Jiacheng Tang, Meng Liu, Mengyao Zhao, Xinjie Zhao
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