中国人工智能学会
Chinese Association for Artificial Intelligence

CICAI

CICAI 2022

INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE
国际人工智能会议

2022 年 08 月 27-28 日

会议日程

THE CONFERENCE AGENDA

Schedule (August 27, 2022) @ Zhongwu Hall, Room 105, Yanxi Hotel Conference Center

09:00-11:55 Tutorial Theme 1: Graph-based Machine Learning

Time	Title	Speaker
09:00-09:35	Generalization bound of GNNs	Renjie Liao, University of British Columbia
09:35-10:10	Graph: Its Concept and Application in Point Cloud Processing	Dong Tian, InterDigital
10:10-10:45	Graph Learning for Collective Intelligence	Siheng Chen, Shanghai Jiao Tong University
10:45-11:20	Recent Development of Heterogeneous Graph Neural Networks	Chuan Shi, Beijing University of Posts and Telecommunications
11:20-11:55	Hypergraph Computing: Method and Practice	Yue Gao, Tsinghua University

Schedule (August 27, 2022) @ Meeting Room E, Room 105, Yanxi Hotel

09:00-11:00 Tutorial Theme 2: Human Computer Interaction and Robotics

Time	Title	Speaker
09:00-09:30	Human-Robot Interaction for Dexterous Manipulation	Bin Fang, Tsinghua University
09:30-10:00	Brain Machine Interfaces—the Era of Avatar	Yiwen Wang, Hong Kong University of Science and Technology
10:00-10:30	Physiological Sensing Techniques on Modern Smart Devices	Yuntao Wang, Tsinghua University
10:30-11:00	Designing Conversational AI for Human-Human Interaction	Yun Huang, University of Illinois at Urbana Champaign

Schedule (August 27, 2022) @ Zhaohua Hall, Yanxi Hotel Conference Center

09:00-11:00 Tutorial Theme 3: Art and Artificial Intelligence

Time	Title	Speaker
09:00-09:30	Image Style Transfer	Weiming Dong, Institution of Automation, CAS
09:30-10:00	A Brief History of Interactive Music Systems	Zhiyao Duan, University of Rochester
10:00-10:30	Responsible AI and Design Innovation	Yun Wang, Beihang University
10:30-11:00	Towards the Implementation of an Automatic Composition System for Pop Songs	Di Lu, Central Conservatory of Music

11:00-12:30 Lunch @ *Tutorial Room*

13:30-15:30 Tutorial Theme 4: Intelligence in Natural

Language Understanding and Processing

Time	Title	Speaker
13:30-14:00	Comparative Explanation of Recommendations	Hongning Wang, University of Virginia
14:00-14:30	The Human-Machine Dialog Technology: The Companion Journey in the Industry and Academia	Junlan Feng, China Mobile
14:30-15:00	Towards Efficient Natural Language Processing	Xipeng Qiu, Fudan University
15:00-15:30	Controllable Text Generation Beyond Auto-Regressive Models	Nanyun Peng, University of California Los Angeles

13:30-16:25 Tutorial Theme 5: AI Digital Avatar

Time	Title	Speaker
13:30-14:05	Human Performance Capture with Few RGB Cameras	Xiaowei Zhou, Zhejiang University
14:05-14:40	Monocular Camera based Human Modeling and Animation	Juyong Zhang, University of Science and Technology of China
14:40-15:15	Learning to Reconstruct 3D Garment from Single Images	Xiaoguang Han, The Chinese University of Hong Kong
15:15-15:50	Towards AI Avatar	Yebin Liu, Tsinghua University
15:50-16:25	Inhabiting the virtual	Siyu Tang, ETH Zurich

09:00-17:00 2-day Demo Exhibitions

	Title
1	GLRNet: Gas Leak Recognition via Temporal Difference in Infrared Video
2	ATC-WSA: Working State Analysis for Air Traffic Controllers
3	3D-Producer: A Hybrid and User-Friendly 3D Reconstruction System
4	3D Human Pose Estimation Based on Multi-feature Extraction
5	Visual Localization through Virtual Views
6	A Synchronized Multi-view System for Real-time 3D Hand Reconstruction
7	Monocular Real-time Human Geometry Reconstruction
8	Contactless Cardiogram Reconstruction Based on the Wavelet Transform via Continuous wave Radar
9	Intelligent Data Extraction System for RNFL Examination Reports
10	Gesture Interaction for Gaming Control Based on an Interferometric Radar
11	EasyPainter: Customizing Your Own Paintings
12	An Accelerating Allen Brain Institute's Large-scale Computational Model of Mice Primary Visual Cortex
13	NeRFingXR: An interactive XR Tool based on NeRFs
14	A Brain-controlled Mahjong Game with Artificial Intelligence Augmentation
15	VAFA: a Visually-Aware Food Analysis System for Socially-Engaged Diet Management
16	XIVA: An Intelligent Voice Assistant with Scalable Capabilities for Educational Metaverse
17	Artistic Portrait Applet, Robot, and Printer
18	Sim-to-Real Hierarchical Planning and Control System for Six-legged Robot
19	Weld Defect Detection and Recognition System Based on Static Point Cloud Technology

18:00-21:00 Reception Dinner

@ Waterside, Yanqi Hotel 1st Floor

Schedule (August 28, 2022) @ *Haiyan Hall*

09:00-09:10 CICAI Welcome and Opening Remarks

09:10-09:50 Keynote 1

Qiang Yang

Fellow of Canadian Academy of Engineering

Title: Trustworthy Federated Learning

Qiang Yang

09:50-10:40 Oral Session 1

Time	Title	Authors
09:50-10:00	Sequential Fusion of Multi-view Video Frames for 3D Scene Generation	Weilin Sun, Xiangxian Li, Yuqing Wang, Yuze Zheng, Xiangxu Meng, Lei Meng
10:00-10:10	MHPro: Multi-Hypothesis Probabilistic Modeling for Human Mesh Recovery	Haibiao Xuan, Jinsong Zhang, Kun Li
10:10-10:20	3D Face Cartoonizer: Generating Personalized 3D Cartoon Faces from 2D Real Photos with a Hybrid Dataset	Ming Guo, Shunfei Wang, Zhibo Wang, Ming Lu, Xiufen Cui, Xiao Ling, Feng Xu
10:20-10:30	SMOF: Squeezing More Out of Filters Yields Hardware-Friendly CNN Pruning	Yanli Liu, Bochen Guan, Weiyi Li, Qinwen Xu, Shuxue Quan
10:30-10:40	Cross-Camera Deep Colorization	Yaping Zhao, Haitian Zheng, Mengqi Ji, Ruqi Huang

10:40-10:50 Coffee Break

10:50-11:40 Oral Session 2

Time	Title	Authors
10:50-11:00	Second-order Global Attention Networks for Graph Classification and Regression	Fenyu Hu, Zeyu Cui, Shu Wu, Qiang Liu, Jinlin Wu, Liang Wang, Tieniu Tan
11:00-11:10	Multi-Relational Cognitive Diagnosis for Intelligent Education	Kaifang Wu, Yonghui Yang, Kun Zhang, Le Wu, Jing Liu, Xin Li
11:10-11:20	Interactive Fusion Network with Recurrent Attention for Multimodal Aspect-based Sentiment Analysis	Jun Wang, Qianlong Wang, Zhiyuan Wen, Ruifeng Xu
11:20-11:30	Dynamic Network Embedding by Using Sparse Deep Autoencoder	Huimei Tang, Zengyang Shao, Yutao Zhang, Lijia Ma, Qiuzhen Lin
11:30-11:40	Deep Graph Convolutional Networks Based on Contrastive Learning: Alleviating Over smoothing Phenomenon	Rui Jin, Yibing Zhan, Rong Zhang

11:40-12:00 Inauguration Ceremony of CAAI Artificial Intelligence Research

12:00-13:00 Lunch @ *Waterside, Yanqi Hotel 1st Floor*

13:30-14:10 Keynote 2 @ *Haiyan Hall*

Dacheng Tao

Fellow of Australian Academy of Science

Title: More Is Different: ViTAE elevates the art of computer vision

Dacheng Tao

14:10-14:50 Oral Session 3

Time	Title	Authors
14:10-14:20	Visual Perception Inference on Raven's Progressive Matrices by Semi-Supervised Contrastive Learning	Aihua Yin, Weiwen Lu, Sidong Wang, Hongzhi You, Ru-Yuan Zhang, Da-Hui Wang, Zonglei Zhen, Xiaohong Wan
14:20-14:30	A Genetic Algorithm for Causal Discovery Based on Structural Causal Model	Zhengyin Chen, Kun Liu, Wenpin Jiao
14:30-14:40	Deep Skill Chaining withDiversity for Multi-agent Systems	Zaipeng Xie, Cheng Ji, Yufeng Zhang
14:40-14:50	A Novel In-sensor Computing Architecture based on Single Photon Avalanche Diode and Dynamic Memristor	Jiyuan Zheng, Shaoliang Yu, Jiamin Wu, Yuyan Wang, Chenchen Deng, Zhu Lin

14:50-15:00 Coffee Break

15:00-15:40 Oral Session 4

Time	Title	Authors
15:00-15:10	Connecting Patients with Pre diagnosis: A Multiple Graph Regularized Method for Mental Disorder Diagnosis	Tianqi Zhao, Ming Kong, Kun Kuang, Zhengxing Huang, Qiang Zhu, Fei Wu
15:10-15:20	Audio-Visual Multi-Person Keyword Spotting via Hybrid Fusion	Yuxin Su, Ziling Miao, Hong Liu
15:20-15:30	Maintaining Structural Information by Pairwise Similarity for Unsupervised Domain Adaptation	Jian Liu, Yahong Han
15:30-15:40	EdgeVR360: Edge-assisted Multiuser-oriented Intelligent 360-degree Video Delivery Scheme over Wireless Network	Zihao Chen, Longhao Zou, Gabriel-Miro Muntean, Xu Wang, Long Xu

15:40-17:00 Poster Exhibitions

17:00-17:15 Conference Awards and Ending

Posters

ID	Title	Authors
1	Illumination-guided Transformer-based Network for Multispectral Pedestrian Detection	Fuchen Chu, Jiale Cao, Zhuang Shao, Yanwei Pang
2	Human-Object Interaction Detection:A Survey of Deep Learning-based Methods	Fang Li, Shunli Wang, Shuaibing Wang, Lihua Zhang
3	Context Alignment Network for Video Moment Retrieval	Chaolei Tan, Jianfang HU, Weishi Zheng
4	A Multi-Branch Cascade Transformer Network (MBCTNet) for Hand Gesture Segmentation in Cluttered Background	Zhenchao Cui, Guoyu Zhou, Jing Qi, Huimin Wang, Xilun Ding
5	Multi-model Lightweight Action Recognition with Group shuffle Graph Convolutional Network	Suguo Zhu, Yibing Zhan, Zhao Guo
6	Underwater Object Detection Using Restructured SSD	Daewon Choi, Hao Li, Andi Huang, Guoqiang Zhong
7	Self-attention based High Order Sequence Features of Dynamic Functional Connectivity Networks with rs-fMRI for Brain Disease Classification	Zhixiang Zhang, Biao Jie
8	Causal Inference with Sample Balancing for Out-Of Distribution Detection in Visual Classification	Yuqing Wang, Xiangxian Li, Haokai Ma, Zhuang Qi, Xiangxu Meng, Lei Meng
9	Low-light image enhancement under mixed noise model with Tensor Representation	Weipeng Yang, Hongxia Gao, Shasha Huang, Shicheng Niu, Hongsheng Chen, Guoheng Liang
10	Relative Position Relationship Learning Network for Scene Graph Generation	Zhi Chen, Yibing Zhan
11	Developing Relationships: A Heterogeneous Graph Network with Learnable Edge Representation for Emotion Identification in Conversations	Zhenyu Li, Geng Tu, Ruifeng Xu
12	Lane Change Decision-making of Autonomous Driving Based on Interpretable Soft Actor-critic Algorithm with Safety Awareness	Di Yu, Kang Tian, Yuhui Liu, Manchen Xu
13	Aero-Engine Remaining Useful Life Prediction Via Tensor Decomposition Method	Jincen Jiang, Xiting Wang, Zhongzhi Hu
14	Research Progress of Hypergraph Neural Networks and Its Application to Action Recognition	Cheng Wang, Nan Ma, zhixuan Wu, Jin Zhang, Yongqiang Yao
15	Stochastic and Dual Adversarial GAN-boosted Zero-Shot Knowledge Graph	Xuejiao Liu, Yaowei Guo, Meiyu Huang, Xueshuang Xiang
16	VERTEX: VEhicle Reconstruction and TEXture Estimation From a Single Image Using Deep Implicit Semantic Template Mapping	Xiaochen Zhao, Zerong Zheng, Chaonan Ji, Zhenyi Liu, Siyou Lin, Tao Yu, Jinli Suo, Yebin Liu
17	Data-driven Hybrid Neural Network under Model-driven Supervised Learning for Structural Dynamic Impact Localization	Yingxin Luan, Teng Li, Ran Song, Wei Zhang
18	Clustering-based curriculum construction for sample balanced Federated learning	Zhuang Qi, Yuqing Wang, Zitan Chen, Ran Wang, Xiangxu Meng, Lei Meng
19	Spatial-temporal Contextual Feature Fusion Network for Movie Description	Yihui Liao, Lu Fan, Huiming Ding, Zhifeng Xie
20	A Transformer-based Network for Deformable Medical Image Registration	Yibo Wang , Wen Qian, Mengqi Li, Xuming Zhang
21	An Intelligent Assessment System for Human Motor Functions of Stroke Patients	Jingyao Chen, Chen Wang, Pu Zhang, Zengguang Hou, Pingye Deng, Ningcun Xu, Chutian Zhang
22	Linguistic Interval-valued Spherical Fuzzy Sets and Related Properties	Yanzhe Liu, Ye Zhang, Xiaosong Cui, Li Zou
23	Reinforcement Learning based Plug-and-Play Method for Hyperspectral Image Reconstruction	YingKai Zhang, Ying Fu

ID	Title	Authors
24	Low Light Video Enhancement Based on Temporal-Spatial Complementary Feature	Zhang Gengchen, Yuhang Zeng, Ying Fu
25	A new adaptive TV-Based BM3D algorithm for image denoising	Bo Chen, Yuru Zhang, Haoming Chen, Wensheng Chen, Binbin Pan
26	Adversarial and Implicit Modality Imputation with Applications to Depression Early Detection	Yuzhou Nie, Hailun Liang, Hongteng Xu, Chengyue Huang
27	Part-wise Topology Graph Convolutional Network for Skeleton-Based Action Recognition	Xiaowei Zhu, Qian Huang, Chang Li, Lulu Wang, Zhuang Miao
28	Weakly Supervised Learning of Instance Segmentation with Confidence Feedback	Yu Yang, Fang Wan, Qixiang Ye, Xiangyang Ji
29	Blind Surveillance Image Quality Assessment via Deep Neural Network Combined with the Visual Saliency	Wei Lu, Wei Sun, Wenhan Zhu, Xiongkuo Min, Zicheng Zhang, Tao Wang, Guangtao Zhai, Xiaokang Yang
30	Story Generation Based on Multi-Granularity Constraints	Zhenpeng Guo, Jiaqiang Wan, Hongan Tang, Yunhua Lu
31	Dual Windows Are Significant: Learning from Mediastinal Window and Focusing on Lung Window	Qiuli Wang, Xin Tan, Liu Chen, Lizhuang Ma
32	An Automatic Surface Defect Detection Method with Residual Attention Network	Lei Yang, Suli Bai, Hanyun Huang, Shuyi Kong
33	H-ViT: Hybrid Vision Transformer for Multi-modal Vehicle Re-identification	Wenjie Pan, Hanxiao Wu, Jianqing Zhu, Huanqiang Zeng, Xiaobin Zhu
34	A Snapshot Gradient Tracking for Distributed Optimization over Digraphs	Keqin Che, Shaofu Yang
35	Interaction-aware Temporal Prescription Generation via Message Passing Neural Network	Cong Wang, Zhi Zheng, Tong Xu, Zikai Yin, Enhong Chen
36	CycleResume: A Cycle Learning Framework with Hybrid Attention for Fine-grained Talent-Job Fit	Zichen Zhang, Yong Luo, Yonggang Wen, Xinwen Zhang
37	Multi-view subspace clustering with joint tensor representation and indicator matrix learning	Jing Wang, Xiaoqian Zhang, Zhigui Liu, Zhuang Yue, Zhengliang Huang
38	Evolutionary Multitasking for Coarse-to-Fine Point Cloud Registration with Chaotic Opposition Search Strategy	Yue Wu, Hangqi Ding, Maoguo Gong, Hao Li, Qiguang Miao, Wenping Ma
39	Multi-View 3D Morphable Face Reconstruction via Canonical Volume Fusion	Jingqi Tian, Zhibo Wang, Ming Lu, Feng Xu
40	Matching and Localizing: A Simple Yet Effective Framework for Human-Centric Spatio-Temporal Video Grounding	Chaolei Tan, Jianfang HU, Weishi Zheng
41	Attentive Cascaded Pyramid Network for Online Video Stabilization	Yufei Xu, Qiming Zhang, Jing Zhang, Dacheng Tao
42	Exploring Hierarchical Prototypes for Few-Shot Segmentation	Yaozong Chen, Wenming Cao
43	Cross-domain Trajectory Prediction with CTP-Net	Pingxuan Huang, Zhenhua Cui, Jing Li, Shenghua Gao, Bo Hu, Yanyan Fang
44	LS-YOLO: Lightweight SAR Ship Targets Detection Based on Improved YOLOv5	Yaqi He, Zixin Li, Yulong Wang
45	An optical satellite controller based on diffractive deep neural network	Shaohua Liu, Hongkun Dou, Hongjue Li, Yue Deng
46	DGMLP: Deformable Gating MLP Sharing for Multi-Task Learning	Yangyang Xu, Lefei Zhang
47	ETH-TT: A Novel Approach For Detecting Ethereum Malicious Accounts	Ziang Yuan , Beijing University of Posts and Telecommunications), Tan Yang, Jiantong Cao

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48	Monocular 3D Face Reconstruction with joint 2D and 3D constraints	Huili Cui, Jing Yang, Yukun Lai, Kun Li
49	Where Are the Children with Autism Looking in Reality?	Xiaoyu Ren, Huiyu Duan, Xiongkuo Min, Yucheng Zhu, Wei Shen, Linlin Wang, Fangyu Shi, Lei Fan
50	Research on Multi-temporal Cloud Removal using D-S Evidence Theory and Cloud Segmentation Model	Xinwei Wang, Kailai Sun, Qianchuan Zhao, Jianhong Zou
51	Power Grid Bus Cluster Based on Voltage Phasor Trajectory	Kaiyue Xu, Ying Qiao, Daowei Liu
52	A new method for assigning hesitation based on an intuitionistic fuzzy set distance metric	Changlin Xu, Yaqing Wen
53	Following the Lecturer: Hierarchical Knowledge Concepts Prediction for Educational Videos	Xin Zhang, Qi Liu, Wei Huang, Weidong He, Tong Xiao, Ye Huang
54	Nested Named Entity Recognition from Medical Texts: A Multi-task Learning Approach	Junzhe Jiang, Mingyue Cheng, Qi Liu, Zhi Li, Enhong Chen
55	Suspension Control of Maglev Train Based on Extended Kalman Filter and Linear Quadratic Optimization	Fengxing Li, Yougang Sun, Hao Xu, Guobin Lin, Zhenyu He
56	Adaptive Differential Evolution Algorithm with Multiple Gaussian Learning Models	Genghui Li, Qingyan Li, Zhenkun Wang
57	SASD: A Shape-Aware Saliency Object Detection Approach for RGB-D Images	Lingling Zi, Xin Cong
58	Chinese Word Sense Embedding with SememeWSD and Synonym Set	Yangxi Zhou, Junping Du, Zhe Xue, Ang Li, Zeli Guan
59	Dynamic Clustering Federated Learning for Non-IID Data	Ming Chen, Jinze Wu, Yu Yin, Zhenya Huang, Qi Liu, Enhong Chen
60	Multi-Objective Meta-Return Reinforcement Learning for Sequential Recommendation	Yemin Yu, Kun Kuang, Jiangchao Yao, Zeke Wang, Kunyang Jia, Hongxia Yang, Fei Wu
61	Event-based Obstacle Sensing and Avoidance for an UAV through Deep Reinforcement Learning	Xinyu Hu, Zhihong Liu, Xiangke Wang, Lingjie Yang, Guanzheng Wang
62	Purchase Pattern based Anti-Fraud Framework In Online E-Commerce Platform Using Graph Neural Network	Liu Yan, Wang Sanpeng
63	DEEP TWIN SUPPORT VECTOR NETWORKS	Mingchen Li , Zhiji Yang
64	Physical Logic Enhanced Network for Small-Sample Bi Layer Metallic Tubes Bending Springback Prediction	Chang Sun, Zili Wang, Shuyou Zhang, Le Wang, Jianrong Tan
65	Region-based Dense Adversarial Generation for Medical Image Segmentation	Ao Shen, Liang Sun, Mengting Xu, Daoqiang Zhang
66	Scene Text Recognition with Single-Point Decoding Network	Lei Chen, Haibo Qin, Shixue Zhang, Chun Yang, Xucheng Yin
67	A Hybrid Pattern Knowledge Graph-based API Recommendation Approach	Guan Wang, Weidong Wang, Dian Li
68	Incomplete Cigarette Code Recognition via Unified SPA Features and Graph Space Constraints	Huiming Ding, Zhifeng Xie, Jundong Lai, Yanmin Xu, Lizhuang Ma
69	Lightweight Image Compression Based on Deep Learning	Mengyao Li, Zhengyong Wang, Liquan Shen, Qing Ding, Liangwei Yu, Xuhao Jiang
70	A Large-Scale Tobacco 3D Bin Packing Model Based on Dual-Task Learning of Group Blocks	Haosong Wang
71	Dictionary Learning based Reinforcement Learning with Non-convex Sparsity Regularizer	Haoli Zhao, Junkui Wang, Xingming Huang, Zhenni Li, Shengli Xie

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72	Instance-Level Spatial-Aware GAN for Cross-Spectral Face Hallucination	Wenpeng Xiao, Cheng Xu, Xuemiao Xu, Huaidong Zhang
73	BSAM: Bidirectional Scene-Aware Mixup for Unsupervised Domain Adaptation in Semantic Segmentation	Congying Xing, Li Gao, Lefei Zhang
74	FIGCI: Flow-Based Information-Geometric Causal Inference	Shengyuan Zhang, Jingyu Wu, Zejian Li, Li Liu, Jun Liao, Lingyun Sun
75	Research on control sensor allocation of industrial robots	Bin Yang, Zhouzhou Huang, Wenyu Yang
76	Integrative Analysis of Multi-view Histopathological Image Features for the Diagnosis of Lung Cancer	Zongxiang Pei, Yingli Zuo, Liang Sun, Meiling Wang, Wei Shao, Daoqiang Zhang
77	Triple GNN: A Pedestrian-Scene-Object Joint Model for Pedestrian Trajectory Prediction	Xinshengzi Huang, Qiong Liu, You Yang
78	Browsing Behavioral Intent Prediction on Product Recommendation Pages of E-commerce Platform	Zebin Cai, Zhen Yankun, Mingrui He, Liuqing Chen, Lingyun Sun, Tingting Zhou, Yichun Du
79	Amodal Layout Completion in Complex Outdoor Scenes	Jingyu Wu, Zejian Li, Shengyuan Zhang, Lingyun Sun
80	Emotional Semantic Neural Radiance Fields for Audio Driven Talking Head	Haodong Lin, Zhonghao Wu, Zhenyu Zhang, Chao Ma, Xiaokang Yang
81	Deep Dynamic-range Compression of Infrared Video Camera	Bingcai Sun, Ying Zhang
82	Weighted competitive-collaborative representation based classifier for imbalanced data classification	Yanting Li, Shuai Wang, Junwei Jin, C. L. Philip Chen
83	Benchmarking Deep Reinforcement Learning based Energy Management Systems for Hybrid Electric Vehicles	Yuankai Wu, Renzong Lian, Wang Yong, Yi Lin
84	Adaptive Combination of Filtered-x NLMS and Affine Projection Algorithms for Active Noise Control	Xichao Wang, Shifeng Ou, Yunhe Pang
85	Detecting Alzheimer's disease based on acoustic features extracted from pre-trained models	Kangdi Mei, Zhiqiang Guo, Zhaoci Liu, Lijuan Liu, Xin Li, Zhenhua Ling
86	Intelligence Quotient Scores Prediction in rs-fMRI via Graph Convolutional Regression Network	Hao Zhang, Ran Song, Dawei Wang, Liping Wang, Wei Zhang
87	Differential Evolution Constrained Optimization for peak reduction	Min Wang, Ting Wen, XiaoYu Jiang, Anan Zhang
88	A Coarse-to-Fine Convolutional Neural Network for Light Field Angular Super-Resolution	Gaosheng Liu, Huanjing Yue, Jingyu Yang
89	VSA: Adaptive Visual and Semantic Guided Attention on Few-Shot Learning	Jin Chai, Yisheng Chen, Weinan Shen
90	Research on Intelligent Decision-Making Irrigation Model of Water and Fertilizer Based on Multi-Source Data Input	Shanshan Li, Yisheng Miao, Xiao Han
91	Clinical Phenotyping Prediction via auxiliary task selection and adaptive shared-space correction	Xiao Yang, Ning Liu, Jianbo Qiao, Haitao Yuan, Teng Ma, Yonghui Xu, Lizhen Cui
92	Online Taxi Dispatching Algorithm Based On Quantum Annealing	Chao Wang, Tongyu Ji, Suming Wang
93	PHN: Parallel heterogeneous network with soft gating for CTR prediction	Su Ri, Hounye Alphonse Houssou, Cong Cao, Muzhou Hou
94	CDNeRF: A Multi-Modal Feature Guided Neural Radiance Fields	Qi Zhang, Qiaoqiao Liu, Hang Zou
95	Learning Evidential Cognitive Diagnosis Networks Robust to Response Bias	Jiawei Liu, Jingyi Hou, Na Zhang, Zhijie Liu, Wei He

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96	Crowd-Oriented Behavior Simulation: Reinforcement Learning Framework Embedded with Emotion Model	Zhiwei Liang
97	Unsupervised Domain Adaptation for Semantic Segmentation with Global and Local Consistency	Xiangxuan Shan, Zijin Yin, Jiayi Gao, Kongming Liang, Zhanyu Ma, Jun Guo
98	Study on Practical Utility of Image Dehazing Algorithms Based on Deep Learning in Computer Vision Scene Understanding	Hui Li, Xinliang Zhang, Jing Lian, Fan Zhang, Yan Zhao
99	An Integrated Navigation Method for UAV Autonomous Landing Based on Inertial and Vision Sensors	Kejun Shang, Xixi Li, Chongliang Liu, Ming Li, Guangfeng Hu
100	Robust Face-Swap Detection Based on 3D Facial Shape Information	Weinan Guan, Wei Wang, Jing Dong, Bo Peng, Tieniu Tan
101	Evolutionary multitasking optimization for multiobjective hyperspectral band selection	Pu Xiong, Xiangming Jiang, Runyu Wang, Maoguo Gong, Hao Li, Yue Wu
102	A Lightweight Detection Method of Smartphone Assembly Parts	Bo Zhang, Wenbai Chen, Xiaohao Wang
103	Compound Label Learning for Affective Image Content Analysis	Qingzhu Zhang, Tongtong Yuan
104	Hierarchical Graph Representation Learning with Structural Attention for Graph Classification	Bin Yu, Xinhang Xu, Chao Wen, Yu Xie, Chen Zhang
105	Automatic diagnose of drug-resistance tuberculosis from CT images based on Deep Neural Networks	Qiuyu Du, Shufan Liang, Jixiang Guo, Zhang Yi, Weimin Li, Chengdi Wang, Xiuyuan Xu
106	Tile Defect Detection Based on the Improved S2C YOLOv5	Limei Li Song, Jiatong Xiao
107	DPIT: Dual-Pipeline Integrated Transformer for Human Pose Estimation	Shuaitao Zhao, Kun Liu, Yuhang Huang, Qian Bao, Dan Zeng, Wu Liu
108	Prompt Learning with Cross-Modal Feature Alignment for Visual Domain Adaptation	Jinxing Liu, Xiao Junjin, Haokai Ma, Xiangxian Li, Zhuang Qi, Xiangxu Meng, Lei Meng
109	Change Detection of Flood Hazard Areas in Multi-Source Heterogeneous Earth Observation Image Time Series Based on Spatiotemporal Enhancement Strategy	Zhihao Wang, Xueqian Wang, Gang Li
110	Saliency Map-based Local White-Box Adversarial Attack Against Deep Neural Networks	Haohan Liu, Xingquan Zuo, HaiHuang, Xing Wan
111	Photovolt Spots Detection Based on Kernel Entropy Component Analysis and Information Gain	Shang jun Jiang, Hui Yi
112	AGFNet: Attention Guided Fusion Network for Camouflaged Object Detection	Zeyu Zhao, Zhihao Liu, Chenglei Peng
113	EO-SLAM: Evolutionary object slam in perceptual constrained scene	Jiahao Chen, Xiuzhi Li
114	ADRC Based Multi-Task Priority Tracking Control of Collaborative Robots	Fan Kun , Yanhong Liu
115	UI Layers Group Detector: Grouping UI Layers via Text Fusion and Box Attention	Shuhong Xiao, Tingting Zhou, Yunnong Chen, Dengming Zhang, Liuqing Chen , Lingyun Sun, Yueshi Yu
116	Audio-visual Fusion Network Based on Conformer for Multimodal Emotion Recognition	Peini Guo, Zhengyan Chen, Yidi Li, Hong Liu
117	Similar Case based Prison Term Prediction	Siying Zhou, Yifei Liu, Yiquan Wu, Kun Kuang, Chunyan Zheng, Fei Wu
118	Hierarchical Recurrent Contextual Attention Network for Video Question Answering	Fei Zhou, Yahong Han

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119	Improving Adversarial Attacks with ensemble-based approaches	Jiya Peng, Guoxu Zhou,
120	TAR-Net: A Triple Attention Residual Network for Power line Extraction from Infrared Aerial Images	Lei Yang, Shuyi Kong, Hanyun Huang, Heng Li
121	Person Re-identification Based on CNN with Multi-Scale Contour Embedding	Hao Chen, Yan Zhao, Lihua Zhang
122	A Novel Device-Free Localization Approach Based on Deep Dictionary Learning	Manman Wang, Benying Tan, Shuxue Ding, Yujie Li
123	Model Predictive Tracking Control for USV with Model Error Learning	Huiping Li, Siyu Chen, Fei Li
124	A Novel Nonlinear Dictionary Learning Algorithm Based on Nonlinear-KSVD and Nonlinear-MOD	Xiaoju Chen, Yujie Li, Shuxue Ding, Benying Tan, Yuqi Jiang
125	Global-view Re-identification with Transformer Tracking	Zhuangzhuang Gao
126	Tooth Defect Segmentation in 3D Mesh Scans using Deep Learning	Hao Chen, Yuhao Ge, Jiahao Wei, Huimin Xiong, Zuozhu Liu, Yang Feng, Jin Hao
127	Image Sampling for Machine Vision	Jiashuai Cui, Fan Li, Liejun Wang

Organizers

General Chairs

Lu Fang,
Tsinghua University

Daniel Povey,
Xiaomi

Guangtao Zhai,
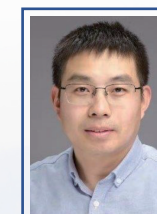Shanghai Jiao Tong University

Program Chairs

Lina J. Karam,
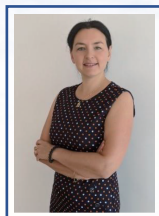LAU, Lebanon

Tao Mei,
JD Explore Academy

Ruiping Wang,
Chinese Academy of Sciences

Publication Chairs
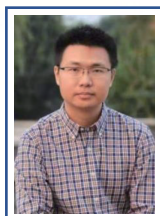
Hui Qiao,
Tsinghua Univerisity

Adriana Tapus,
Polytechnique de Paris, France

Presentation Chair

Mengqi Ji,
Beihang University

Zhou Zhao,
Zhejiang Univerisity

Shan Luo,
King's College London, UK

Demo Chair
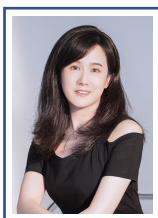
Kun Li,
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