



CSCWD 2024

The 27th IEEE International Conference on Computer Supported Cooperative Work in Design

> Tianjin · China May 8 – 10 2024





Design of complex artifacts and systems requires the cooperation of multidisciplinary design teams. The 2024 27th IEEE International Conference on Computer Supported Cooperative Work in Design (CSCWD 2024) provides a forum for researchers and practitioners involved in different but related domains to confront research results and discuss key problems. The scope of CSCWD 2024 includes the research and development of collaboration technologies and their applications to the design of processes, products, systems, and services in industries and societies. Collaboration technologies include theories, methods, mechanisms, protocols, software tools, platforms, and services that support communication, coordination and collaboration among people, software and hardware systems. Related fields of research include human-computer interaction, business process management, collaborative virtual environments, enterprise modeling, security and privacy, as well as social aspects and human factors related to collaboration and design.



CONTENTS

1. (Committee	01
2. F	Program	02
3. ł	Keynote Speakers	03
4. 3	Seminar	07
5. I	Full Program	13

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Technical Program at a Glance

		W	ednesda	y May 8,	, 2024 (B	eijing Tiı	me)				
9:00 - 17:00		Registration – Crowne Plaza Tianjin Meijiangnan									
11:30 - 13:00		Lunch									
15:00 - 16:40		Smart Internet of Things and Industrial Big Data Seminar									
	Technical Sessions										
13:00 - 15:00	Session	A1	B1	C1	D1	E1	F1	G1	H1	1	J1
	Room	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10
15:00 - 15:15	Coffee/Tea Break										
15.15 17.15	Session	A2	B2	C2	D2	E2	F2	G2	H2	12	J2
15.15 - 17.15	Room	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10
18:00 - 21:00	Reception Dinner										

		т	hursday	May 9, 2	. 024 (Bei	jing Tim	e)				
8:30 - 8:50		Opening Ceremony									
8:50 - 9:40	Keynot	Keynote Speech 1: Prof. Hong Mei (Chairs: Prof. Xiuzhen Cheng, Prof. Rui Mao)									
9:40 - 10:30	Keynot	e Speecl	1 2 : Prof.	Andrew	Kusiak ((Chairs: Pr	of. Junw	ei Han, Pr	of. Geyon	g Min)	
10:30 - 10:45		Coffee/Tea Break									
10:45 - 11:35	Keynot	e Speecl	1 3: Prof.	Guangm	ing Shi (Chairs: Pi	rof. Huch	uan Lu, P	rof. Xiaojia	ang Cher	ו)
11:35 - 12:25	Keynot	e Speecl	h 4 : Prof.	Xingwei	Wang (C	hairs: Pro	of. Rongh	nua Liang,	Prof. Con	g Tian)	
12:25 - 13:30					L	unch					
	Technical Sessions										
13:30 - 15:30	Session	A3	B3	C3	D3	E3	F3	G3	H3	13	J3
	Room	R1	R2	R3	R4	R5	R6	R7	R8	R9	R11
15:30 - 15:45	Coffee/Tea Break										
15.45 - 17.45	Session	A4	B4	C4	D4	E4	F4	G4	H4	14	J4
13.43 - 17.43	Room	R1	R2	R3	R4	R5	R6	R7	R8	R9	R11
19:00 - 21:00	Banquet										

			Friday M	ay 10, 20	024 (Beij	ing Time)				
					Technic	al Sessi	ons				
8:00 - 10:00	Session	A5	B5	C5	D5	E5	F5	G5	H5	15	J5
	Room	R1	R2	R3	R4	R5	R6	R7	R8	R9	R11
10:00 - 10:15					Coffee	/Tea Bre	ak				
10:15 -12:15	Session	A6	B6	C6	D6	E6	F6	G6	H6	16	J6
	Room	R1	R2	R3	R4	R5	R6	R7	R8	R9	R11
12:15 – 13:30	Lunch										
12.20 15.20	Session	A7	B7	C7	D7	E7	F7	G7	H7	17	J7
15.50 - 15.50	Room	R1	R2	R3	R4	R5	R6	R7	R8	R9	R11

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Hong Mei

Professor Academician of the Chinese Academy of Sciences IEEE/ACM Fellow Peking University

Topic

How to Construct Artificial Collective Intelligence

Abstract

The exploration of the Artificial Collective Intelligence (ACI) paradigm gleans insights from natural swarm intelligence within biological systems like ant colonies and bee hives. Despite their individual limitations, these systems illustrate a remarkable collective problem-solving capacity. The broader scope of ACI's integration into technological and human systems propels industrial digital transformation, notably through design-as-a-service and manufacturing-as-a-service models. By employing digital twin technologies and personalized production, these models fortify operational resilience and enhance competitive positioning in the marketplace. This shift to service-oriented models showcases the potential of digital innovations in harnessing collective intelligence, revolutionizing traditional industries and informing future advancements. Incorporating real-world examples with theoretical analysis, the transformative potential of ACI is highlighted, driving enhanced collaboration, increased efficiency, and fostering industry-wide innovation.

Biographical Sketch

Prof. Hong Mei received a Bachelor's degree and a Master's degree in Computer Science from Nanjing University of Aeronautics & Astronautics (NUAA) in 1984 and 1987 respectively, and a Doctorate degree in Computer Science from Shanghai Jiao Tong University in 1992. He is a professor of computer science with Shanghai Jiao Tong University, China and Peking University, China. From 1987 to 1989, he was working at NUAA as a research assistant. In 1992, he joined in Peking University (PKU) as a post-doctoral research fellow. From 1994 to present, he was working at the Department of Computer Science and Technology and the School of Electronics Engineering and Computer Science in PKU and became an associate professor in 1994 and full professor in 1997. In 2005, he became a Chang Jiang Scholars Program; professor of Ministry of Education. In 2011, he was elected as a member of Chinese Academy of Sciences. In 2013, he was elected as a Fellow of the World Academy of Sciences: for the advancement of science in developing countries. In 2014, he was elevated to IEEE Fellow. In 2018, he was elected as a foreign member of Academia Europaea. He was the dean of School of Electronics Engineering and Computer Science at PKU from 2006-2014. He was a vice president of Shanghai Jiao Tong University from 2013-2016, and a vice president and executive vice president of Beijing Institute of Technology from 2016-2019. In 2022, he was elevated to ACM Fellow. Now he is the director of Key Laboratory of High Confidence Software Technologies of Ministry of Education (MOE) at PKU. His main research interests' range over software engineering and system software. He is a fellow of the TWAS, an academician of Chinese Academy of Sciences, and a foreign member of the Academia Europaea.



Andrew Kusiak

Professor IIE Fellow Editor-in-Chief, Journal of Intelligent Manufacturing The University of Iowa

Topic

Fusion of Design and Manufacturing: X-as-a-service Perspective

Abstract

An industrial enterprise includes a collection of physical assets and services reflecting the functionality needed to develop and manufacture products. Digitization of products and manufacturing offers a unique opportunity to explore new modalities of this functionality. The concepts leading to the design-as-a-service and manufacturing-as-a-service paradigm are explored. The synergy and contrast between the concepts in support of digitization in design and manufacturing is analyzed and illustrated with examples, from digital twins and product personalization to resiliency in design and manufacturing. The proposed ideas are to increase competitiveness of the industry of the future.

Biographical Sketch

Andrew Kusiak is currently a Professor with the Department of Industrial and Systems Engineering and the Director of the Intelligent Systems Laboratory, The University of Iowa, Iowa City, IA, USA. He was the Chair of the Department of Industrial Engineering and the Department of Mechanical and Industrial Engineering. He is the author or coauthor of numerous books and hundreds of technical articles published in journals sponsored by professional societies, such as Association for the Advancement of Artificial Intelligence (AAAI), ASME, Institute of Industrial and Systems Engineers (IISE), IEEE, Institute for Operations Research and the Management Sciences (INFORMS), and other societies. His current research interests include applications of computational intelligence in manufacturing, renewable energy, automation, sustainability, and healthcare., Dr. Kusiak is a fellow of the Institute of Industrial Engineers and the Editor-in-Chief of the Journal of Intelligent Manufacturing (Springer Nature). He has served in several elected professional society positions as well as editorial boards of over 50 journals, including the editor position of five different IEEE Transactions. He is a frequent speaker at international meetings, conducts professional seminars, and consults for industrial corporations.



Guangming Shi

Professor IEEE Fellow Vice Director, Peng Cheng Lab

Topic

High-speed Imaging System with a Large Dynamic Range and Low Cost

Abstract

The imaging technology for targets with high-speed motion and scenes with large variation of illumination intensity has great needs in scientific research and national security. By designing sensitive optical sensor chips with high speed and big dynamic range, some traditional imaging methods can meet this requirement to a certain extent, but the cost is extremely high and it cannot reach the goal of ultra-high-speed target imaging. Inspired by the biological vision pulse imaging mode that is sensitive to moving target, the research group designs a kind of time-varying analog differential imaging chip with low cost. Combined with ordinary cameras and intelligent processing algorithms, the designed imaging system realized the imaging of high-speed target in the scenes with a large dynamic range. This report introduces the principle, structure and image processing algorithm of this imaging system.

Biographical Sketch

Guangming Shi is a professor and doctoral advisor of the School of Artificial Intelligence, Xidian University. He received the M.S. degree in computer control, and the Ph.D. degree in electronic information technology from Xidian University, Xi'an, China, in 1988, and 2002, respectively. He had studied and cooperated with the research group in UIUC of U.S. and University of Hong Kong. He was the Vice President of Xidian University during 2018-2022. Currently, he is Vice Director of Peng Cheng Lab in China. His research interest includes Artificial Intelligence, Intelligent Communications for Semantic, Imaging, Human-Computer Interaction and so on. He is an IEEE/IET/AIAA/CCF Fellow and the chair of IEEE CASS Xi'an Chapter, He was awarded Cheung Kong Scholar Chair Professor by the Ministry of Education in 2012. And he won the second prize of the National Natural Science Award in 2017.



Xingwei Wang

Professor CCF Fellow Vice President, Northeastern University

Topic

Towards Fine-gained Services: NFV-assisted Tracking and Positioning using Microservices for Internet of Robots

Abstract

Robotics as a Service (RaaS) emerges as a new paradigm to motivate diversified potential of the "remote controlled economy" for flexible and efficient service provision with the help of cloud computing. The Multirobot Cooperation (MRC) technology has been widely used in various intelligent logistics scenarios, such as warehouses, factories, airports and subway stations, benefiting from the advantages of high operational efficiency and low labor cost. While promising, the corresponding challenge is that the service functions deployed on Logistics Robots (LRs) are more prone to failures such as resource exhaustion and error configuration in the Multi-robot System (MRS). In this way, it becomes extremely important to discover and locate abnormal services as soon as possible so as to reduce or even avoid economic loss. Since the benefits of MRS can be achieved by massive generation of service functions that are decoupled from the hardware and deployed on-demand, this paper aims at proposing a Network Function Virtualization (NFV) based complete service chain tracking and positioning process with a more fine-grained level of LRs. Specifically, a micro-service-based system framework for high-accurate service tracking and fault function positioning is constructed, in which two main micro-service functions are designed for service chain tracking and positioning to maintain the stability and reliability of the MRS. On one hand, the tracking micro-service proposes an improved Hopcroft-Karp algorithm to determine the optimal probing and tracking path for MRC. On the other hand, the positioning micro-service proposes a delay-aware dichotomy probing algorithm to minimize the number of probe packets. Experimental results indicate that the proposed system framework and mechanisms outperform the state-of-the-art methods in terms of tracking and positioning accuracy in the MRS.

Biographical Sketch

Xingwei Wang, Vice President of Northeastern University, Professor, Recipient of the National Outstanding Youth Science Fund, China State Council Government Special Allowance Recipients; Member of the National Engineering Professional Degree Graduate Education Guidance Committee; Fellow of China Computer Federation, Fellow of China Institute of Communications; Chairman of CCF Internet Special Committee; Director of Liaoning Key Laboratory of Intelligent Internet Theory and Application. His research areas include Internet, cloud computing and cyberspace security, etc. He has received 2 second prizes for national scientific and technological progress, 1 second prize of national teaching achievement and 8 first prizes at the provincial and ministerial levels.



Smart Internet of Things and Industrial Big Data Seminar

Seminar Chairs

Tie Qiu

Xiaobo Zhou

Tianjin University

Tianjin University

Guest Speakers

(in alphabetical order by last name) (按姓氏拼音排序)

Xiuzhen Cheng	Shandong University
Xiaojiang Chen	Northwest University
Junwei Han	Northwestern Polytechnical University
Zhetao Li	Jinan University
Ronghua Liang	Zhejiang University of Science and Technology
Huchuan Lu	Dalian University of Technology
Rui Mao	Shenzhen University
Geyong Min	University of Exeter
Cong Tian	Xidian University
Fu Xiao	Nanjing University of Posts and Telecommunications

Seminar



Xiuzhen Cheng

Shandong University Prof. Xiuzhen Cheng is a professor of Computer Science at Shandong University. From 2002 to 2020, she was a faculty member at The George Washington University, USA. She served as a Program Director at NSF from April 2006 to October 2006 (full time) and from April 2008 to April 2010 (part-time). Her research focuses on the broad area of distributed and trusted computing, particularly in blockchain computing, edge computing, and IoT security. Dr. Cheng is the founder and steering committee chair of the International Conference on Wireless Algorithms, Systems, and Applications (WASA, launched in 2006), and the founding EiC of the High-Confidence Computing Journal (launched in 2021). She served/is serving on the editorial boards of several technical journals (e.g. IEEE Transactions on Computers and IEEE Transactions on Wireless Communications) and the technical program committees of many professional conferences/workshops (e.g. ACM Mobihoc, ACM Mobisys, IEEE INFOCOM, IEEE ICDCS, IEEE/ACM IWQoS). She also chaired several international conferences (e.g. ACM Mobihoc'14). Dr. Cheng is a Fellow of IEEE, a Fellow of CSEE (Chinese Society for Electrical Engineering), and a Fellow of AAIA (Asia-Pacific Artificial Intelligence Association). Her current H-Index is 67, and the total number of Google Citations is 20K+.

Prof. Xiaojiang Chen received the Ph.D. degree in computer software and theory from Northwest University, Xi'an, China, in 2010. He is currently a Professor with the School of Information Science and Technology, Northwest University. His current research interests include localization and performance issues in wireless ad hoc, mesh, sensor networks, and machine learning.



Xiaojiang Chen Northwest University





Junwei Han

Northwestern Polytechnical University

> Dr. Zhetao Li is a professor in College of Information Science and Technology, Jinan University. He received the B.Eng. degree in Electrical Information Engineering from Xiangtan University in 2002, the M.Eng. degree in Pattern Recognition and Intelligent System from Beihang University in 2005, and the Ph.D. degree in Computer Application Technology from Hunan University in 2010. He is a member of IEEE and CCF.



Prof. Junwei Han is currently the Dean and a Professor in

University. His research interests include artificial intelligence, remote sensing image analysis, and brain pattern recognition. He has published more than 150 papers in top journals such as IEEE TPAMI, IJCV and so on and more than 30 papers in top conferences such as CVPR, ICCV, ACM Multimedia, MICCAI, IJCAI, etc. He is an Associate Editor for several international journals including IEEE TPAMI, IEEE TMM, and so on. He is a

Northwestern

Polytechnical

of Automation,

Fellow of IEEE and IAPR.

School

Zhetao Li Jinan University





Ronghua Liang

Zhejiang University of Science and Technology

Prof. Ronghua Liang received the Ph.D. in computer science from Zhejiang University. He worked as a research fellow at the University of Bedfordshire, UK, from April 2004 to July 2005 and as a visiting scholar at the University of California, Davis, US, from March 2010 to March 2011. He is currently a Professor of Zhejiang University of Science and Technology, China. His research interests include Visual Analytics and Computer Vision.

Prof. Huchuan Lu is the Outstanding Young Scholar Supported by National Natural Science Foundation of China, Young and middle-aged leading innovators of the Ministry of National Science and Technology of China, Dean of the School of Innovation and Entrepreneurship at Dalian University of Technology. His research interests include computer vision and pattern recognition. He has published around 150 papers on top conferences like CVPR, ICCV and ECCV, and IEEE Transactions. He has got more than 45000 citations on Google Scholar. He has been awarded multiple international scholarship prizes, including CVPR2020 Best Paper Award Nominee, ICCV2011 Most Remembered Poster, IET Image Processing 2014 Best Paper Award, ICIP2012 Best Student Paper Award Finalist. He got multiple Champions in the Visual Object Tracking (VOT) challenge from 2018 to 2022. He has been Area Chairs of ICCV, CVPR, ECCV, ACCV, ICPR and Associate Editors of the IEEE Transaction on Cybernetics (TCYB) and IEEE Transaction on Circuits and Systems for Video Technology (TCSVT).



Huchuan Lu Dalian University of Technology





Rui Mao Shenzhen University Prof. Rui Mao received BS (1997) and MS (2000) in computer science from the University of Science and Technology of China, and MS(2006) in statistics and Ph.D.(2007) in computer science from the University of Texas at Austin. After three years work at the Oracle USA Corporation, he joined Shenzhen University in 2010. He is now a Distinguished Professor at the College of Computer Science and Software Engineering, Shenzhen University, and Executive Director of the Shenzhen Institute of Computing Sciences. His research mainly focuses on metric-space data processing.

Prof. Gevong Min is the Chair in High Performance Computing and Networking in the Department of Computer Science at the University of Exeter, UK. His research interests include Computer Networks, Cloud and Edge Computing, Mobile and Ubiquitous Computing, Systems Modelling and Performance Engineering. His recent research has been supported by European Horizon-2020, UK EPSRC, Royal Society, Royal Academy of Engineering, and industrial partners. He has published more than 200 research papers in leading international journals including IEEE/ACM Transactions on Networking, IEEE Selected Areas in Communications. Journal on IEEE Transactions on Computers, IEEE Transactions on Parallel and Distributed Systems, and IEEE Transactions on Wireless Communications, and at reputable international conferences, such as SIGCOMM-IMC, INFOCOM, and ICDCS. He is an Associated Editor of several international journals, e.g., IEEE Transactions on Computers, and IEEE Transactions on Cloud Computing. He served as the General Chair or Program Chair of a number of international conferences in the area of Information and Communications Technologies.



Geyong Min University of Exeter





Cong Tian Xidian University Prof. Cong Tian received the B.S., M.S., and Ph.D. degrees in computer science from Xidian University, Xi'an, China, in 2004, 2007, and 2009, respectively. She was a Visiting Postdoctoral Researcher with Hosei University, Tokyo, Japan from 2010 to 2011. She is currently a Professor with the Institute of Computing Theory and Technology (ICTT), Xidian University. Her research interests include theories in model checking, temporal logics, and automata, formal verification of software systems, and software engineering.

Prof. Fu Xiao received the PhD degree in computer science and technology from the Nanjing University of Science and Technology, Nanjing, China, in 2007. He is currently a professor and a PhD supervisor with the School of Computer, Nanjing University of Posts and Telecommunications. He has authored papers in research related international conferences, including INFOCOM, Mobihoc, and ICC, the IEEE Journal on Selected Areas in Communications, IEEE/ACM Transactions on Networking. IEEE Transactions on Mobile Computing, ACM Transactions on Embedded Computing Systems, and IEEE Transactions on Vehicular Technology. His research interest includes the Internet of Things.



Fu Xiao

Nanjing University of Posts and Telecommunications

Full Program

	A1: Collaboration Technology Applications in Social Networks and Entertainment (1) Room: R1 Time: 13:00 - 15:00
13	Gaofeng Zhang, Yanhe Fu, Gang Xu, Xing Wang, Jia Hao and Ru Yi. Opportunistic Network Routing Algorithm Based on Overlapping Communities and Communication Willingness
14	Gaofeng Zhang, Jia Hao, Gang Xu, Xing Wang, Yanhe Fu and Ru Yi. Opportunistic Network Routing Based on Node Sociality and Location Information
18	Zhijun Zhou, Qing Xie, Mengzi Tang, Yuhan Wang, Lin Li and Yongjian Liu. Debiased Contrastive Learning for Graph Collaborative Filtering
21	Yutao Song, Nankai Lin, Lingbao Li and Shengyi Jiang. A Vision Enhanced Framework for Indonesian Multimodal Abstractive Text-Image Summarization
24	Zhiyuan Liu, Wei Liu, Xinyang Tong, Qi Shen, Qiang Zheng, Hengrui Hu, Hong Liu and Xiaojie Wang. ABCF: An Adaptive Balanced Multimodal Website Classification Framework
30	Han Wang and Chunhua Gu. DCCL: Distance-coefficient guided Clustering with Contrastive Learning for Few-shot Text Classification
70	Bingshu Shi, Meiling Liu, JiYun Zhou and Kaiqun Fu Sentiment. Summarization Generation Based on Multi Instance Learning and Graph Convolution on Social Media

	A2: Collaboration Technology Applications in Social Networks and Entertainment (2) Room: R1 Time: 15:15 - 17:15
113	Ahmed Elmahalawy, Lin Li, Xiaohua Wu, Xiaohui Tao and Jianming Yong. Computational Personality Analysis with Interpretability Empowered Prediction
228	Lin Zhao, Ji Xiang, Xiaobo Guo, Yunzhi Liang, Zeyi Liu and Xin Wang. CA-GCN: A Confidence-aware uncertain knowledge graph embedding model based on graph convolutional networks
231	Rui Xia, Lisong Wang, Taili Li and Pingping Shi. Social Influence Prediction using Neighborhood Information across Various Ranges
237	Yuliang Chen, Xi Lin, Gaolei Li, Lixing Chen, Jing Wang, Siyi Liao and Jianhua Li. Trading Trust for Privacy: Socially-Motivated Personalized Privacy-Preserving Collaborative Learning in IoT
391	Haimei Qin, Yaqi Jing, Yunqiang Duan and Lei Jiang. MAFE: Multi-modal Alignment via Mutual Information Maximum Perspective in Multi-modal Fake News Detection
402	Zhenyi Fan, Hongbin Zhang, Guangyu Lin, Lianglun Cheng, Zhuowei Wang and Chong Chen. Hierarchical Multi-Frequency Transform for Sequential Recommendation
427	Shiqiao Huang, Weiwen Zhang, Nankai Lin and Mianshen Xu. GPF: Generative Prediction Fusion for Multi-Label Emotion Classification

	A3: Collaboration Technology Applications in Social Networks and Entertainment (3) Room: R1 Time: 13:30 - 15:30
455	Chenyun Yu, Zihao Wang, Ye Zheng and Liankai Cai. TinyCMR: A Lightweight Learning Framework for Efficient Cross-Modal Retrieval
460	Yunong Zhang and Jiaming Zhou. Uniform-Distribution (UD) Based Time Intervals of GRC (Global Reserve Currency) Transition Year Predicted Narraowly as [2024, 2040] and Generally [2k00, 2k50]
467	Wantong Du, Wanli Min, Yushui Geng, Hu Liang and Hehu Zhou. Cross modal sentiment classification of social media based on meta heuristic algorithm
494	Zhijun Li, Zhenyu Yang, Yiwen Li and Xiaoyang Li. Opinion-Tree-guided Contrastive Learning for Aspect Sentiment Quadruple Prediction
495	Yiwen Li, Zhenyu Yang, Xiaoyang Li and Zhijun Li. CAFI: News Recommendation with Candidate Perception of Fine-Grained Interaction Information
496	Xiaoyang Li, Zhenyu Yang, Yiwen Li and Zhijun Li. Topic-based Multi-layer Knowledge Filtering for Emotion Recognition in Conversation
525	Huanqing Cui, Silin Lv, Di Yang and Yi Fan Wu. TLGPA: Two-Level Graph Partitioning Algorithm under Multi-Machine Multi-Card System

	A4: Collaboration Technology Applications in Social Networks and Entertainment (4) Room: R1 Time: 15:45 - 17:45
498	Haichao Fu, Liangjun Zang, Baojie Tian and Songlin Hu. MT-MNA: Multiple Network Alignment with Absent Priori Annotation
546	Ruisheng Wang and Weiwen Zhang. Taming the Low-Quality Path for Reinforcement Learning- Based Knowledge Graph Reasoning
562	Meng Lin, Qinghao Huang, Qianqian Lu, Xianjing Guo and Tao Guo. Attribute-enhanced Selection of Proper Demonstrations for Harmful Meme Detection
603	Li-E Wang, Rongwen Wei, Hengtong Chang, Xianxian Li, Zhigang Sun and Tianran Liu. Multi- perspective Information and Multi-task Contrastive Learning for Sequential Recommendations
619	Chengbin Zheng, Zhicheng Yang and Yang Lu. GMAE: Representation Learning on Graph via Masked Graph Autoencoders
626	Baojie Tian, Liangjun Zang, Jizhong Han and Songlin Hu. Capture Long-Range Dependency with Meta-Path Transformer for De-Anonymization of Q&A Sites
778	Ziyin Gu, Qingmeng Zhu, Hao He, Zhipeng Yu, Tianxing Lan and Shuo Yuan. Multi-Level Knowledge-Enhanced Prompting for Empathetic Dialogue Generation

	A5: Collaboration Technology Applications in Social Networks and Entertainment (5) Room: R1 Time: 08:00 - 10:00
781	Ziyin Gu, Qingmeng Zhu, Hao He, Tianxing Lan and Zhipeng Yu. Analysis of Emotional Cognitive Capacity of Artificial Intelligence
797	Zhenyu Hu, Jingya Zhou, Congcong Zhang and Yingdan Shi. Explainable Cross-Domain Collaborator Recommendation
520	Qianqian Lu, Shilong Li, Kun Li, Wei Zhou and Liangjun Zang. Adaptive Mixture of Domain-aware Experts for Detecting Social Bots
541	Ningtao Ma, Ru Yi, Mingyang Sun and Liangyu Ruan. Single Image Haze Removal Using Haze Color Prior
553	Xinxin Wang, Ru Yi, Mingyang Sun and Zhaozheng Zhang. Low-light Image Enhancement Algorithm Based on Improved Multi-scale Retinex with Adaptive Brightness Compensation
32	Yuanxiang Xu, Yuan Feng, Shengyu Song and Jiahao Liu. A model for sea ice segmentation based on feature pyramid network and multi-head self-attention
80	Xunjia Yin, Xiaoming Wu and Xiangzhi Liu. SOD-YOLO: A New Small Object Traffic Sign Recognition Network

A6: Collaboration Technology Applications in Healthcare and Homecare (1)
Room: R1 Time: 10:15 - 12:15

23	Yantao Shao, Tianxiang He, Keji Mao, Kai Fang, Yan Mao and Wei Wang. Optimizing Future Predictions in Children's Health: Implementing OGPA-enhanced Deep Learning for Precise Child Height Forecasting in the Social Media Age
156	Chenxu Han, Xuelei He, Xiaowe He, Zhixin Huang, Chuang Zhang and Yong Huang. MLWF-Net: Multiple lung windows based fusion network for segmentation of small infected areas in COVID- 19 CT slices
199	Mingya Zhang, Na Zhao, Yuqian Zhuang, Liang Wang and Xianping Tao. FaLdViT: A Simple Yet effective framework to detect Cephalometric landmarks
211	Xin Li, Zhongjie Li and Feiyang Xu. Eye-tracking based Detection of Developmental Dyslexia in Children Using Convolutional-Transformer Network
244	Rui Li, Xin Zhang, Yanpeng Wu and Zongyi Shao. Cell detection algorithm for alveolar lavage fluid based on YOLO-GAS algorithm
285	Jianzong Wang, Pengcheng Li, Xulong Zhang, Ning Cheng and Jing Xiao. Medical Speech Symptoms Classification via Disentangled Representation
288	Dongsheng Ji and Caidan Zhuoma. Study on the Impact of Different Anchor Quantities in pneumonia X-ray Object Detection Based on the YOLO Series
319	Xiao Zhao Deng, Dan Wang and Lin Yang. The Impact of Perceived Risk on Online Medical Users' Privacy Protection Behavior

	A7: Collaboration Technology Applications in Healthcare and Homecare (2) Room: R1 Time: 13:30 - 15:30	
345	Yue Shen, Wanshu Fan, Zhongbin Han and Dongsheng Zhou. Multi-Level Feature-Guided Network for Few-shot Medical Image Segmentation	
371	Tianyou Chang, Shizhan Chen, Guodong Fan and Zhiyong Feng. A Vision-language Model Based on Prompt Learner for Few-shot Medical Images Diagnosis	
394	Zhizhuo Zhao, Wenpeng Lu, Yong Li, Hao Wu, Weiyu Zhang and Xueping Peng. Thinking the Importance of Patient's Chief Complaint in TCM Syndrome Differentiation	
395	Tengjin Weng, Yang Shen, Zhidong Zhao, Zhiming Cheng and Shuai Wang. Accurate Segmentation of Optic Disc and Cup from Multiple Pseudo-labels by Noise-aware Learning	
418	Yishuo Li, Zhufeng Shao, Weimin Chen, Shoujin Wang, Yuehan Du and Wenpeng Lu. Significance- aware Medication Recommendation with Medication Representation Learning	
423	Li Zhang, Yue-Feng Li and Yu Zhang. SIDF: A Desensitization Framework for Sensitive Information in Chinese Medical Report Images	
436	Qingzhi Zou, Jing Zhao, Ming Li, Ling Chen, Lin Yuan, Ronghuan Zhang and Yushuai Hu. Medical Image Segmentation Use Convolutional Attention Augmentation TransUNet with Skip Connection Enhancement	
463	Sibo Wei, Xueping Peng, Hongjiao Guan, Lina Geng, Ping Jian, Hao Wu and Wenpeng Lu. Multiview Contrastive Learning for Medical Question Summarization	

B1: Collaboration Technology Applications in Healthcare and Homecare (3) Room: R2 Time: 13:00 - 15:00	
513	Yufei Gao, Zhe Chen, Lei Shi, Qingxian Wang and Yameng Zhang. MedMatch: Design of Semi- supervised learning Model with Curriculum Pseudo-Labels for Medical Image Classification
515	Yufei Han, Haoyuan Chen, Linwei Yao, Kuan Li and Jianping Yin. MAT-VIT:A Vision Transformer with MAE-Based Self-Supervised Auxiliary Task for Medical Image Classification
533	Geng Zhang and Hong Lai. QTN-MLP: Quantum Tensor Network-enhanced MLP for Medical Image Classification
544	Lin Shi, Yushi Li, Yu Han, Jia Wang, Fangyu Wu, Chenke Yin and Haichao Zhang. Two-branch Network with Feature Fusion for Time Since Deposition Estimation of Bloodstains
549	Xiaoyong Tang, Xiangyu Yang, Wenzheng Liu, Tan Deng, Ronghui Cao, Zeyuan Tu and Xingjiang Hu. RFR-ABROF: A Multi-Strategy Collaborative Classification Prediction Model Based on Rotation Forest for PM2.5
565	Huiting Li, Weiyu Zhang, Yong Shang and Wenpeng Lu. Collaborative Prediction of Drug-target Interaction using Sequence-based CNN and Transformer
609	Kexian Tang, Shuyu Wang, Hao Yang, Huilin Lai, Jingyi Sun and Ye Luo. Reliable Cosine Matching via Neighborhood Consensus for Fundus Image Registration
550	Mingyang Sun, Ru Yi, Xinxin Wang and Ningtao Ma. Enhancing Low-Light Images: A Novel Approach Combining Anisotropic Diffusion and Retinex

B2: Collaboration Technology Applications in Healthcare and Homecare (4) Room: R2 Time: 15:15 - 17:15	
624	Yuanshun Huang and Guihua Duan. A Privacy-Preserving Decision Tree Evaluation Scheme for Multiple Wearable Devices
631	Felipe Ortuzar, Pedro O. Rossel and Francisco J. Gutierrez. A Reference Architecture to Support the Collaborative Development of Virtual Reality Exposure Therapy Software
636	Yufei Gao, Shuxi Li, Jing Xu, Zixing Ma, Mengyang He and Yameng Zhang. MLPSeg: Incorporating Multi-Local Perception with Context Cross Attention Based Transformer for Nuclei Segmentation
683	Jie Yan, Meng Zhao, Yong Ding, Hai Liang, Changsong Yang and Yujue Wang. Verifiable and Privacy-Preserving Online Diagnosis Based on Multiclass SVM and CKKS Leveled Homomorphic Encryption
712	Yi Liu, Steven Goh, Tobias Low, Zach Quince and Shoryu Teragawa. A Lightweight Deep Learning Model for EEG Classification Across Visual Stimuli
720	Xin Zhang, Xueping Peng, Weiyu Zhang, Long Zhao, Weimin Chen and Wenpeng Lu. Multi-Channel Hypergraph Network for Sequential Diagnosis Prediction in Healthcare
732	Huachuan Qiu, Anqi Li, Lizhi Ma and Zhenzhong Lan. PsyChat: A Client-Centric Dialogue System for Mental Health Support
733	Haokai Gao, Xiangru Li and Ruizheng Shi. A Novel Two-Stage Stacking Model for Breast Cancer Survival Prediction
B3: Collaboration Technology Applications in Healthcare and Homecare (5) Room: R2 Time: 13:30 - 15:30	
1	Zichen Song, Shuo Ma and Weijia Li. Robustness Boost: MIR-Based Feature Enhancement in Deep Learning Models
175	Yuxiang Lin, Wentao Wang, Hui Peng and Guangrong Chen. Tracking Control of Quadruped Robot Based on Visual Perception
748	Ruizheng Shi, Xiangru Li and Haokai Gao. A novel deep learning model CSAM-ResNet based on attention mechanism and residual learning for breast histopathology image classification
802	Ding Ding, Pascal Remeijsen, Zian Song, Mark A. Neerincx and Willem-Paul Brinkman. Technology-supported social skills training systems: A systematic literature review

696 Danyi Chen, Weinian Cao, Shengxiang Rao and Lijun Luo. Eight-neighborhood sparse contour extraction in binary images

759 Haifeng Zhao, Quanshuang He and Deyin Liu. Towards Efficient Sparse Transformer based Medical Image Registration

115Hao Yue, Xiaoliang Wang, Liu Yuzhen, Zhou Tang, Jiasheng Yin and Yuanyuan Ai. Enhancing Weak
Feature Detection in Convolutional Analysis of Traditional Chinese Medicine Tongue Diagnosis

446 Junrong Du, Lei Song, Zimeng Fan, Xuanang Gui, Lili Guo and Xuzhi Li. A fine-tuning framework for cross-domain RUL prediction based on relevant health indicators

	B4: Collaboration Methods, Mechanisms, Processes, and Protocols (1) Room: R2 Time: 15:45 - 17:45
47	Haofei Wang, Li-Ping Wang, Liang Feng Zhang and Huaxiong Wang. Two-Server Verifiable Federated Learning: Unconditional security and Practical efficiency
54	Dingyang Duan, Daren Zha, Zeyi Liu and Yu Chen. Dynamic Graph Embedding via Self-Attention in the Lorentz Space
60	Zhuhua Bai, Weiqing Li, Guolin Yang, Fantong Meng, Renke Kang and Zhigang Dong. A Coarse-to- Fine Framework for Point Voxel Transformer
64	Chunqiao Jin and Shuangyuan Yang. Named Entity Recognition Method Based on Multi-Teacher Collaborative Cyclical Knowledge Distillation
76	Yisheng Zhong and Liping Wang. PROFL: A Privacy-Preserving Federated Learning Method with Stringent Defense Against Poisoning Attacks
78	Fenghao Li, Ying Shen, Liming Wang, Huanbo Zhang and Ling Zhang. SR-RDW : A Multi-user Redirected Walking Method Based on State Recovery for Alignment
88	Zeyu Dong, Chuanguang Yang, Yuqi Li, Libo Huang, Zhulin An and Yongjun Xu. Class-wise Image Mixture Guided Self-Knowledge Distillation for Image Classification
90	Jiahao Liu, Yuan Feng, Shengyu Song and Yuanxiang Xu. A Study of Deep Learning Algorithms for Long-term Prediction and Correlation Identification of Arctic Ice

	B5: Collaboration Methods, Mechanisms, Processes, and Protocols (2) Room: R2 Time: 08:00 - 10:00
92	Min Wang and Yan Gao. A Multi-Label Text Classification Model with Enhanced Label Information
95	Mengran Liu, Hui Xu, Qinyue Wu and Chenbing Dong. An Improved Beluga Whale Optimization Algorithm by Collaborative Strategies for Multi-Threshold Image Segmentation
101	Yihang Zhou, Chuanguang Yang, Yuqi Li, Libo Huang, Zhulin An and Yongjun Xu. Online Relational Knowledge Distillation for Image Classification
114	Guojian Xiao, Siyuan Qin, Kuan Li, Juan Chen and Jianping Yin. EAtuner: Comparative Study of Evolutionary Algorithms for Compiler Auto-tuning
117	Zhengqi Wu, Hui Li, He Bai and Xinyuan Pei. A Scalable and Resilient Protocol for Synchronous Collaboration
120	Haodi Zhang, Junyu Yang, Wenxi Huang, Min Cai, Jiahong Li, Chen Zhang and Kaisu Wu. Recognizing Textual Entailment by Hierarchical Crowdsourcing with Diverse Labor Costs
142	Jiaming Zhang, Songtao Guo and Pengzhan Zhou. FedGDC-P: Communication-efficient Personalized Graph Federated Learning Based On Dataset Condensation
148	Chenliang Zhu, Jie Yang, Peiwei Deng, Junzhe Lin, Lianfen Huang and Hezhi Lin. STPointNet for Human Action Recognition in MmWave Point Clouds

	B6: Collaboration Methods, Mechanisms, Processes, and Protocols (3) Room: R2 Time: 10:15 - 12:15	
151	Ronghao Liang, Qingtian Zeng, Wenyan Guo, Hua Duan and Weijian Ni. Automatic Extraction of Petri Nets from RFC Protocol Texts	
152	Songtao Ye, Saisai Zheng and Yizhang Xia. Channel Attention-Based Method for Searching Task-Specific Multi-Task Network Structures	
159	Ping Gu and Yong Lu. A Hybrid Active Sampling Algorithm for Imbalanced Learning	
164	Weigang Wang, Wei Jing and Ziyuan Cui. ScoreReader: A handwritten score recognition toolkit for examination papers	
165	Guangzong Si and Qing Ding. Bi-Directional Safety Protection for Vulnerable Road Users: A Roadside Unit-Based Cooperative Perception Network	
169	Kun Han and Long Tan. An Event-driven Clustering Routing Algorithm in mobile CRSNs	
173	Shang Wang, Meiju Yu, Mingzhu Zhao and Haotian Wang. Blockchain-Based Cloud Data Auditing Scheme in Multi-Cloud Storage Service Environment	
188	Fang Liu, Shiqun Yin, Guang Li and Yajun He. Nested named entity recognition based on span and efficient global pointer	
B7: Collaboration Methods, Mechanisms, Processes, and Protocols (4) Room: R2 Time: 13:30 - 15:30		
190	Zhengyang Mao, Peng Li, Guangzhong Liao, Lei Nie, Haizhou Bao and Qin Liu. Two-Sided Online Task Assignment Based on Worker Portraits in Mobile CrowdSensing	
210	Sihan Mao, Jianguang Zhang, Xiaodong Hu and Xiaolin Zheng. Byzantine-Robust Compressed and Momentum-based Variance Reduction in Federated Learning	
226	Kecheng Tang, Jian-Tao Zhou and Xu Guo. An Uncovered Neurons Information-Based Fuzzing Method for DNN	
238	Yiduo Cheng, Xu Yuan, Dunhui Yu and Mingjun Zhao. Multi task online allocation based on path planning strategy in Spatial crowdsourcing environment	
263	Changnan Jiang, Chunhe Xia, Mengyao Liu, Chen Chen, Huacheng Li, Tianbo Wang and Pengfei Li. FedDRC: A Robust Federated Learning-based Android Malware Classifier under Heterogeneous Distribution	
267	Bo Cui and Li Dang. Incentive Mechanism of Blockchain-Based Reverse Auction for Federated Learning	
272	Ningning Zhu, Fuqing Zhao and Jie Cao. A Hyperheuristic and Reinforcement Learning Guided Meta-heuristic Algorithm Recommendation	
283	Mingjie Wang, Bicheng Fang, Jinfeng Jiang and Hongfei Fan. A Novel Request-Invitation-Approval Scheme for Flexible Semantic Conflict Prevention in Real-Time Collaborative Programming	

	C1: Collaboration Methods, Mechanisms, Processes, and Protocols (5) Room: R3 Time: 13:00 - 15:00
314	Chen Chen, Guorong Ye, Hao Wang, Jianqiao Li, Hangguan Shan and Pu Li. Lightweight Dangerous Driving Action Recognition Using Graph Convolutional Broad Learning
320	Yifan Zhou, Yue Ding and Dong Wang. LDAG: Modeling Long-term interests by Directed Acyclic Graph Neural Network for Sequential Recommendation
321	Chaoxiong Yi, Songlei Jian, Yusong Tan and Yusen Zhang. MACA: Memory-aware convolution accelerating for CNNs inference on edge devices
349	Yupeng Zhang, Shunkang Hu and Zenghua Zhao. A Unified Routing Framework for Resource- Constrained Mobile Ad Hoc Networks
363	Xiaohao Liu, Hualin Zeng, Wenli Zhang and Long Yang. Collaborative Denoising Shilling Attack for Recommendation Systems
378	Rui Xia, Lisong Wang, Taili Li and Pingping Shi. Low Light Enhancement in Street Scenes Based on Diffusion Model
430	Wenjun Zhou, Yao Liu, Nan Wang, Yifan Wang and Bo Peng. CoSiNet: Dual-Branch Collaborative Siamese Network for Visual Object Tracking
453	Chen Ling, Bin Liu, Wei Xia, Shuangze He, Zhengwei Jiang and Qiuyun Wang. Automated Anti- malware Detection Rules Converter Based on SIMIOC

	C2: Collaboration Methods, Mechanisms, Processes, and Protocols (6) Room: R3 Time: 15:15 - 17:15
458	Kun Liu and Linfeng Liu. Cascaded Multi-level Features Fusion Network using Collaborative Training for Snow Removal
473	Jizhe Yu, Yu Liu, Hongkui Wei and Kaiping Xu. Towards More Accurate Tiny Object Tracking: Benchmark and Algorithm
475	Bo Zhu, Li Jia and Jianfang Li. A Hybrid Estimation of Distribution Algorithm with Monarch Butterfly Optimization
480	Tianhong Wang, Yue Teng, Chunjiang Zhang, Yiping Gao and Xinyu Li. A Hybrid Genetic Algorithm for Flexible Job Shop Scheduling Problem with Batch Processing Machines
519	Shukai Liu, Danyi Chen, Fei Teng, Changqing Yin and Huijuan Zhang. Few-Shot Learning for Hyperspectral Imaging via Spectral-Spatial Feature Reconstruction
536	Xuanli Liu, Mengjie Lv, Weibei Fan, Xueli Sun, Zhenjiang Dong and Fu Xiao. Reliability of Half Hypercube Networks under Cluster Faults
587	Fake Fang, Libo Feng, Jiale Xie, Yifan Liu, Xian Deng, Peng Wu, Junhong Liu, Zehui Yuan and Peiyin Luo. BCFL: A Trustworthy and Efficient Federated Learning Framework Based on Blockchain In IoT
601	Tianyue Chen, Xiaojin Chen, Yongqiang Qian, Lang Zheng, Haiyang Li, Jingbo Zhao and Yaojun Wang. AgriPrompt: A Method to Enhance ChatGPT for Agricultural Question Answering

	C3: Collaboration Methods, Mechanisms, Processes, and Protocols (7) Room: R3 Time: 13:30 - 15:30
627	Ye Liu, Yan Pan and Jian Yin. Deep Hashing with Triplet Loss of Hash Centers and Dissimilar Pairs for Image Retrieval
794	Ruixuan Zhao, Chuyi Chen, Ruoyu Li, Shenghang Liu and Hongan Wang. Neural ODE-Guided Imputation Computing for Building IoT Time Series with High Missing Gaps
808	Jin Su, Chunming Li and Yuanqing Xia. Analysis and Evaluation of Manned/Unmanned Collaborative Emergency Rescue Equipment System.
675	You Chen, Hua Dai, Mingfeng Jiang, Qu Lu, Pengyue Li, Bohan Li and Geng Yang. KCPMA: k-degree Contact Pattern Mining Algorithms for Moving Objects
704	Kai Chen, Qian Yang, Jiankai Wang, Duohe Ma, Liming Wang and Zhen Xu. What You See Is The Tip Of The Iceberg: A Novel Technique For Data Leakage Prevention
738	Jun Li, Shuqin Zhang, Hongsong Zhu, Yu Chen and Jizhao Liu. An Efficient Vehicular Intrusion Detection Method Based on Edge Intelligence
755	Qingyu Xu, Jiguo Yu, Anming Dong and Zihao Shang. An algorithm for detecting surface defects in industrial strip steel based on receptive field and feature information supplementation
756	Hanwen Zhang, Qingyi Si, Peng Fu, Zheng Lin and Weiping Wang. Are Large Language Models Table-based Fact-Checkers?

	C4: Collaborative Computing (Clouds, Grids, Web Services, Blockchains) (1) Room: R3 Time: 15:45 - 17:45
779	Tong Zhang, Weiping Pan and Hao Li. Collaborative Training for Compensation of Inference Errors in NOR Flash Computing in memory Chips
38	Wanjun Chen, Qiqi Chen, Jiexun Shen, Guosheng Kang, Jianxun Liu, Buqing Cao and Lihong Zhang. Interactive Web API Recommendation via Exploring Mashup-API Interactions and Functional Description Documents
48	Baowei Wang, Zhengyu Hu, Yi Yuan, Bin Li and Yuxiao Zhang. BlockArb: The Decentralized Arbitration Mechanism for Data Trading
62	Bingxian Li, Lin Zhu and Long Tan. A Distributed Deep Reinforcement Learning-based Optimization Scheme for Vehicle Edge Computing Task Offloading
63	Baowei Wang, Wenjue Huang, Bin Li, Yi Yuan, Fan Yang and Zhengyu Hu. Blockchain-based Medical Image Data Trading Platform with Copyright and Privacy Protection
72	Yifan Pei, Peiyan Yuan, Xiaoyan Zhao and Haojuan Zhang. A Cloud-Edge Collaborative System for Object Detection Based on KubeEdge
85	Fu Peiguo, Zhang Li, Ming Liu, Jiang Wen and Sun Liyuan. Research on a Cross-platform Communication Situation Assessment Method Based on Specific Events
103	Hanqing Gao, Junfeng Zhao, Wenhao Li and Zhengxin Li. MicroMCM: Fine-grained Root Cause Localization for Microservice Systems Based on Multiple Causal Inference Methods

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	C5: Collaborative Computing (Clouds, Grids, Web Services, Blockchains) (2) Room: R3 Time: 08:00 - 10:00
110	Huixuan Zhao, Jinyong Cheng and Rundong Du. A Multi-Scale Infrared and Visible Image Fusion Network Based on Context Perception
111	Qiuyuan Wang, Lanju Kong and Lizhen Cui. A Complete Protection, Certification and Traceability System for Academic Degrees Based on Collaborative Storage on and Off the Chain
116	Tong Yin, Xin Chen, Libo Jiao and Jiaxuan Liao. Joint Dynamic Pricing and Computing Offloading in Edge-to-Cloud Collaboration
129	Wanchun Jiang, Hanyu Chen, Jialiang Chen, Kai Wang, Jiarui Yang, Xiao Han and Xingping Zhang. Cooperative Simulation of RDMA-based Network and Storage
130	Yipei He, Yongqiang Gao and Yunfei Song. Distributed Rendering for Cloud Gaming in Cloud-Edge- End Cooperation Networks
136	Xin Dai, Xin Chen, Libo Jiao, Shougang Du, Xueqi Ren and Zhe Dong. Cost-Efficient Data Offloading and Resource Allocation in 6G Space-Air-Ground Integrated IoT Networks
138	Yuyan Quan, Songtao Guo and Dewen Qiao. RCFL-GAN: Resource-Constrained Federated Learning with Generative Adversarial Networks
146	Lin Zhu, Long Tan and Bingxian Li. Optimization Scheme of Vehicle Edge Computing Task Offloading Based on Digital Twin Assistance

	C6: Collaborative Computing (Clouds, Grids, Web Services, Blockchains) (3) Room: R3 Time: 10:15 - 12:15
154	Song Wei, Limin Ma, Zeyu He and Wei Zhang. Blockchain-based Private Set Intersection Protocol with Attribute-based Access Control
179	Yu Tian, Haojun Xia, Chen Li and Bibo Tu. An Efficient Caching Mechanism for End-host Network Functions
189	Ke Zhang, Zhenwen Peng, Ruixing Zong, Qiong Wang, Xiong Xiao, Zhuo Tang. Communication Optimization in Blockchain Peer-to-Peer Networks
191	Zhenwen Peng, Yingjie Song, Qiong Wang, Xiong Xiao, Zhuo Tang. FedBN: A Communication- Efficient Federated Learning Strategy Based on Blockchain
192	Wenying Peng, Yanming Chen, Haibin Zhu and Yiwen Zhang. End-edge collaborative DNN inference acceleration via E-CARGO and RBC
213	Ziyang Huang, Yanming Chen and Yiwen Zhang. Lyapunov-guided Deep Reinforcement Learning for Vehicle task Stable offloading
230	Wenqiang Li, Aimin Li, Xiaotong Kong, Yuechen Zhang and Zhiyao Li. MF-YOLO: Multimodal Fusion for Remote Sensing Object Detection Based on YOLOv5s
232	Weimin Lai, Zirong Xu and Qiao Yan. Clustered Federated Learning Based on Client's Prototypes

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C7: Collaborative Computing (Clouds, Grids, Web Services, Blockchains) (4) Room: R3 Time: 13:30 - 15:30	
234	Xiaoyan Zhao, Fengxian Hou, Yan Kuang and Peiyan Yuan. Cache Strategy for Joint Content Recommendation and D2D Collaboration
235	Xianning Meng, Hongda Li and Yao Zan. Sharding PoW-based Blockchains with Simple Cross-Shard Transaction Processing
236	Luting Zhang, Yubing Li, Wei Yang, Qingyun Liu and Rong Yang. PFTB: A Prediction-Based Fair Token Bucket Algorithm based on CRDT
243	Zhiheng Zhang and Guowei Wu. Decb: A Decentralized Broker for Sky Computing
248	Yunfei Song, Yongqiang Gao and Yipei He. Joint Task Offloading and Resource Allocation for NOMA-Based Vehicular Networks
260	Hao Xu, Zhangjun Lu, Wei Zhang and Jianhui Jiang. Process-Oriented GCC Failure Analysis based on Fault Injection
307	Qichen Li, Sujie Shao, Chao Yang, Jiewei Chen, Feng Qi and Shaoyong Guo. Communication- efficient Federated Learning Framework with Parameter-Ordered Dropout
322	Huanxiao Zhou, Yushui Geng, Jing Zhao and Xishan Ma. Semantic-Enhanced Attention Network for Image-Text Matching

D1: Collaborative Computing (Clouds, Grids, Web Services, Blockchains) (5) Room: R4 Time: 13:00 - 15:00	
359	Bin Wen, Xiaofei Xing and Guojun Wang. RTB-RM: A Blockchain-Based System for Reliable and Transparent CTI Sharing with Multidimensional Reputation Model
380	Yongkang Ding, Rui Mao, Hanyue Zhu and Liyan Zhang. Improvement of the Clothes-Changing Person Re-identification with Multiple Loss Functions
403	Yanzhi Zhang, Xiaoming Wu, Xiangzhi Liu and Huomin Dong. Bidding Management Platform for Cloud-Chain Convergence
414	Jingyu Zhang, Yongtao Sun, Zhennan Zhang, Weifeng Ren and Lailong Luo. A Reputation-Aware Randomization Consensus Algorithm for Performance Optimization in Blockchain Systems
415	Jingyu Zhang, Jiejun Ou, Di Lan, Bojian Ma and Lailong Luo. InfinityRand: Blockchain Non- Interactive Randomness Beacon Protocol Based on Trapdoor Verifiable Delay Function
461	Chenyi Liang, Zhibin Gao, Bo Wang, Keyi Cheng and Yifeng Zhao. QECLO: A Novel QoS-Aware Joint Optimization of Energy and Latency for VFC Task Offloading
471	Bo Cui and Guoqing Wang. Ponzi Scheme Detection Based on CNN and BiGRU combined with Attention Mechanism
492	Abdul Rasheed Mahesar, Xiaoping Li, Dileep Kumar Sajnani and Kamran Yaseen Rajput. Efficient Workflow Scheduling and Cost Optimization for Deadline-Constrained Microservice Applications in Mobile Edge Computing

	D2: Collaborative Computing (Clouds, Grids, Web Services, Blockchains) (6) Room: R4 Time: 15:15 - 17:15	
508	Zinuo Zhang, Ruoting Xiong, Xinyu Di and Wei Ren. CroAuth: A Cross-domain Authentication Scheme based on Blockchain and Decentralized Identity	
528	Yun Deng and Haihua Tang. Blockchain-based Anonymous Authentication Key Management for Mobile Edge Computing	
532	Lipan Chen, Yujue Wang, Yong Ding, Hai Liang, Changsong Yang and Huiyong Wang. Blockchain- based UAV-assisted Forest Fire Detection and Monitoring System	
551	Yutian Shi and Beilun Wang. A Privacy-Preserving Method for Sequential Recommendation in Vertical Federated Learning	
540	Xiong Zhang and Cheng Xie. Distill Graph Structure Knowledge from Masked Graph Autoencoders into MLP	
552	Yun Deng and Haihua Tang. A Privacy Protection Task Offloading Algorithm in MEC	
567	Lin Wei, Shihao Zhang, Yufei Gao, Huijuan Lian, Guozhen Cheng, Mengyang He and Lei Shi. Workflow task offloading mechanism based on A3C under computing network integration	
568	Lin Wei, Jinyang Li, Yufei Gao, Lei Shi, Huijuan Lian, Guozhen Cheng and Mengyang He. Resource matching algorithm based on multidimensional computing resource measurement in computing power network	
D3: Collaborative Computing (Clouds, Grids, Web Services, Blockchains) (7) Room: R4 Time: 13:30 - 15:30		
575	Peng Wu, Libo Feng and Junhong Liu. A Cross-Chain Privacy Protection and Key Sharing Scheme Based on Relay Chain	
577	Xian Deng, Libo Feng, Peng Wu, Juhong Liu, Fake Fang, Jiaying Zhang, Zehui Yuan and Jiale Xie. A TDE-based Multi-node Data Categorized Transfer Storage Scheme in Consortium Blockchain	
578	Junhong Liu, Libo Feng, Xian Deng, Peng Wu, Xianchi Gao, Fake Fang, Zehui Yuan, Jiale Xie and Zhixing Zhang. CMSCEF: A Cross-chain Mechanism based on Smart Contract Execution Framework	
591	Fengchun Zhang, Liheng Jiang and Juan Chen. ETPAM: An Efficient Task Pre-Assignment and Migration Algorithm in Heterogeneous Edge-Cloud Computing Environments	
596	Tianyang Li, Hongbin Yan and Yuxin Jiang. Attention Mixture based Multi-scale Transformer for Multi-behavior Sequential Recommendation	
598	Tianyang Li, Hongbin Yan and Hanwen Xu. Decision Transformer based Target-aware Feature Selection Network for Behavior-oriented Recommendation	
614	Qianru Shen, Hailun Lin, Huan Liu, Zheng Lin and Weiping Wang. Watch and Read! A Visual Relation-Aware and Textual Evidence Enhanced Model for Multimodal Relation Extraction	
616	Lingjie Pei, Li Pan and Shijun Liu. An Improved Genetic Optimization Algorithm for Scheduling Serverless Application Jobs in Public Cloud Environments	

	D4: Collaborative Computing (Clouds, Grids, Web Services, Blockchains) (8) Room: R4 Time: 15:45 - 17:45	
617	Yiqing Liu, Li Pan and Shijun Liu. Q-scheduler: Optimize Job Scheduling in Hadoop with Reinforcement Learning	
630	Jifei Wen, Jingguo Ge, Zheyuan Zhang, Hui Li, Yuepeng E and Bingzhen Wu. A time-sensitive cloud-native network based on eBPF	
665	Dexu Yao, Aimin Li, Deqi Liu and Mengfan Cheng. DM-YOLOv5: An Improved Safety Helmet Detection Algorithm at Complex Construction Scenes	
701	Qian Yang, Jiankai Wang, Kai Chen, Hongjia Li, Haihua Gao and Zhen Xu. A Secure Blockchain- based Reputation Scheme for Data Offloading in Edge Computing	
702	Qu Wang and Hao Wu. Dynamically Weighted Directed Network Link Prediction Using Tensor Ring Decomposition	
706	Jinxiao Yang, Xingang Wang and Qingao Wang. TSFE: Research on Transformer and Feature Enhancement Methods for Image-Text Retrieval	
711	Shuang Liang, Haojun Xia, Chen Li and Bibo Tu. Desktop Virtualization Optimization Methods Based on IDV Architecture	
758	Jialu Cui and Junxing Zhang. D-PIFO: A Dynamic Priority Scheduling Algorithm for Performance- Critical Packets Based on the Programmable Data Plane	
D5: Collaborative Computing (Clouds, Grids, Web Services, Blockchains) (9) Room: R4 Time: 08:00 - 10:00		
763	Dongyang Zhang, Jianhuan Zhuo, Yile Li, Yinliang Yue and Weiping Wang. R2Mine: A Reduced Redundancy Computation Graph Pattern Matching System	
766	Wenlong Ni and Zhixiang Mei. An Optimal Admission Control Policy for Cloud Computing Services with Tandem Queues based on Game Theory	
767	Wenlong Ni and Yufeng Zhang. Threshold Detection of Cloud Computing System with Impatient Users Based on Game Theory	
770	Guohua Lv, Xiyan Wang, Zhonghe Wei, Jinyong Cheng, Guangxiao Ma and Hanju Bao. IDFusion: An Infrared and Visible Image Fusion Network for Illuminating Darkness	
775	Kehong Liu, Qi Wang, Junnan Yin, Letian Du and Tianning Zang. Revisiting Open DNS Resolver Vulnerabilities to Reflection-Based DDoS Threats	
798	Ruiting Zhou, Ziyi Han, Yifan Zeng, Zhi Zhou, Libing Wu and Wei Wang. SAFE: Intelligent Online Scheduling for Collaborative DNN Inference in Vehicular Network	
800	Ciyuan Chen, Junzhou Luo, Dian Shen, Zhuqing Xu and Runqun Xiong. Achieving Low Queueing Latency in Time-Slotted LoRa Networks	
801	Jiameng Li, Xiaojie Wang, Jun Wu and Zhaolong Ning. Intelligent Scheduling of UAVs and Sensors for Information Age Minimization in Wireless Powered Internet of Things	

D6: Collaborative Computing (Clouds, Grids, Web Services, Blockchains) (10) Room: R4 Time: 10:15 - 12:15	
803	Zheyi Sha, Chunfeng Liu, Xiaobo Zhou, Chen Chen, Fengbiao Zan and Tie Qiu. An Entropy-based Field Segmentation Method for Unknown Protocols in Industrial IoT
809	Wenqin Li, Xinrong Zheng, Ruihong Huang, Mingwei Lin, Jun Shen and Jiayin Lin. Enhancing Privacy Protection for Online Learning Resource Recommendation with Machine Unlearning
699	Wei Zheng, Yuqing Sun, Yexin Zhang and Bin Gong. Integrating User Rules into Neural Text Inference
647	Chuang Li, Dongdong Huo, Yu Wang, Sixiang Wang, Yaoyi Deng, Qihui Zhou and Yu Wang. A deep learning based detection scheme towards DDos Attack in permissioned blockchains
529	Hui Zhao, Xiaodong Zhang, Jinshan Shi and Ru Li. Data Lineage Construction Method for Multi- Chain-Based Data Assets Marketplaces
661	Zixuan Wang, Ke Ma and Hongwei Wang. Noise-Robust Neural Network For Wind Turbine Gearbox Fault Diagnosis
667	Chaofeng Yang, Zhiheng Zhao, Hankiz Yilahun and Askar Hamdulla. Source Free Domain Adaptation via Adapting to the Enhanced Style
353	Shijie Peng, Yanying Lin, Wenyan Chen, Yingfei Tang, Xu Duan and Kejiang Ye. EINS: Edge-Cloud Deep Model Inference with Network-Efficiency Schedule in Serverless

D7: Collaboration Technology Applications in Business and Administration Room: R4 Time: 13:30 - 15:30
Feihong Huang and Wei Jiang. Towards an Acceptance Probability-Aware Order Bundle in Crowdsource Food Delivery Service

33	Zhichao Li, Xianghui Yuan, Liwei Jin and Chencheng Zhao. Stock Trend Prediction: an Effective
	Hybird Deep Model Based on Lead and Lag Correlation Graphs

35	Zehui Feng, Dongfu Zhu, Kejie Zhang, Yizhe Jia and Jiefan Qiu. CrowdLab: Collaborative Dataset
	Labeling System Based on Image Segmentation

 Mengyan Liu, Gaopeng Gou, Gang Xiong, Junzheng Shi, Chang Liu and Chen Chen.
 WebPromptM2: A Website Classification Method Leveraging Prompt-Based Learning with Multimodal Features

293 Lei Wang, Wenguang Zheng and Yingyuan Xiao. Graph-based POI Recommendation through Self-Supervised Curriculum Learning

411 Jialin Liu, Zeyu He, Peng Zhou, Xinyan Su and Jun Li. A Counterfactual Neural Causal Model for Interactive Recommendation

714Xiaowei Liu, Wenhui Chen, Mengmeng Sun, Yali Si and Zhen Chen. A Practical Cloud API
Complementary Recommendation Service for Mashup Creation

493 Yiwen Li, Zhenyu Yang, Zhijun Li and Xiaoyang Li. HGTA: News Recommendation Based on Hierarchical Granular Semantic Embeddings and Threshold Attention

E1: Collaboration Technology Applications in Power and Energy Room: R5 Time: 13:00 - 15:00	
50	Yanjing Lei, Zehui Feng, Xiangqing Lin, Di Cao and Jiakai Zhang. NILM-LANN: A Lightweight Attention-based Neural Network in Non-Intrusive Load Monitoring
61	Wei Shi, Yufeng Wang, Jianhua Ma and Qun Jin. LFAS: An electricity load forecasting framework assisted by cooperative multi-task learning-based spike occurrence prediction
79	Jianmeng Guo, Huan Zhou, Xuxun Liu, Liang Zhao and Victor Leung. A Stackelberg Game-based Wireless Powered Federated Learning
351	Mengjie Xu and Chuanwang Sun. HLSFNet: Hybrid Long and Short-term collaboration based on Feature extraction for power generation forecasting in China
379	Wanchang Jiang and Yuxin Jiang. ST-T: A Spatio-Temporal Transformer for Φ -OTDR Multi-Location Time Series Classification
462	Lishuo Ye and Zhixue He. Time Series Anomaly Detection Methods Incorporating Wavelet Decomposition and Temporal Decoupled Autoencoder
645	Bingzheng Huang, Chengxin Ni, Junjie Song, Yifan Yin and Ningjiang Chen. Collaborative Multi- Teacher Distillation for Multi-Task Fault Detection in Power Distribution Grid
534	Dongbing Zhang, Zihui Zhang, Yanqiang Li, Yong Wang, Wei Zhang and Yunhai Zhu. An NSGA-II- based multi-objective trajectory planning method for autonomous driving

E2: Collaborative Wireless Sensor Networks Room: R5 Time: 15:15 - 17:15

 284 Gaotao Shi, Zejun Liu, Jinfeng Yang and Zenghua Zhao. Orthogonal Rendezvous Multicast for Mobile Sinks in Wireless Sensor Networks 410 Kun Yan, Hao Hu, Gang Xu, Lijie Li, Yanhe Fu and Gaofeng Zhang. Opportunistic Network Selfish Node Detection Algorithm Based on Credibility Combining Energy and Cache 447 Kun Yan, Hao Hu, Gang Xu, Yuqi Wang, Gaofeng Zhang and Lijie Li. Selfish node filtering algorithm based on opportunity network 448 Yujie Zhang, Peng Li, Weibei Fan and Ruchuan Wang. QTSRA: A Q-learning-based Trusted Routing Algorithm in SDN Wireless Sensor Networks 453 Xuan Hui Liu, Yifeng Zhao, Xiaoqi Wang, Bo Wang and Keyi Cheng. Intelligent Convergence: Advancing 6G mmWave Networks with RIS-Enhanced ISAC for IoT Applications 464 Bizhou Du and Ming Li. FlowSeer: A Novel Framework for Generalized Network Performance Estimation at Flow Level 470 Shuting Yang, Keyu Chen, Wei Feng and En Cheng. A Fair and Energy Efficient Clustering Routing Protocol Based on Link Quality for Underwater Acoustic Sensor Networks 		
 Kun Yan, Hao Hu, Gang Xu, Lijie Li, Yanhe Fu and Gaofeng Zhang. Opportunistic Network Selfish Node Detection Algorithm Based on Credibility Combining Energy and Cache Kun Yan, Hao Hu, Gang Xu, Yuqi Wang, Gaofeng Zhang and Lijie Li. Selfish node filtering algorithm based on opportunity network Yujie Zhang, Peng Li, Weibei Fan and Ruchuan Wang. QTSRA: A Q-learning-based Trusted Routing Algorithm in SDN Wireless Sensor Networks Xuan Hui Liu, Yifeng Zhao, Xiaoqi Wang, Bo Wang and Keyi Cheng. Intelligent Convergence: Advancing 6G mmWave Networks with RIS-Enhanced ISAC for IoT Applications Shengyu Hou, Ning Li, Wuyungerile Li, Fei Gao, Ruihong Wang and Bing Jia. Research on the data stacking problem of energy-based packet prioritization in EH-WSN Haizhou Du and Ming Li. FlowSeer: A Novel Framework for Generalized Network Performance Estimation at Flow Level Shuting Yang, Keyu Chen, Wei Feng and En Cheng. A Fair and Energy Efficient Clustering Routing Protocol Based on Link Quality for Underwater Acoustic Sensor Networks 	284	Gaotao Shi, Zejun Liu, Jinfeng Yang and Zenghua Zhao. Orthogonal Rendezvous Multicast for Mobile Sinks in Wireless Sensor Networks
 Kun Yan, Hao Hu, Gang Xu, Yuqi Wang, Gaofeng Zhang and Lijie Li. Selfish node filtering algorithm based on opportunity network Yujie Zhang, Peng Li, Weibei Fan and Ruchuan Wang. QTSRA: A Q-learning-based Trusted Routing Algorithm in SDN Wireless Sensor Networks Kuan Hui Liu, Yifeng Zhao, Xiaoqi Wang, Bo Wang and Keyi Cheng. Intelligent Convergence: Advancing 6G mmWave Networks with RIS-Enhanced ISAC for IoT Applications Shengyu Hou, Ning Li, Wuyungerile Li, Fei Gao, Ruihong Wang and Bing Jia. Research on the data stacking problem of energy-based packet prioritization in EH-WSN Haizhou Du and Ming Li. FlowSeer: A Novel Framework for Generalized Network Performance Estimation at Flow Level Shuting Yang, Keyu Chen, Wei Feng and En Cheng. A Fair and Energy Efficient Clustering Routing Protocol Based on Link Quality for Underwater Acoustic Sensor Network 	410	Kun Yan, Hao Hu, Gang Xu, Lijie Li, Yanhe Fu and Gaofeng Zhang. Opportunistic Network Selfish Node Detection Algorithm Based on Credibility Combining Energy and Cache
 Yujie Zhang, Peng Li, Weibei Fan and Ruchuan Wang. QTSRA: A Q-learning-based Trusted Routing Algorithm in SDN Wireless Sensor Networks Suan Hui Liu, Yifeng Zhao, Xiaoqi Wang, Bo Wang and Keyi Cheng. Intelligent Convergence: Advancing 6G mmWave Networks with RIS-Enhanced ISAC for IoT Applications Faes Jhengyu Hou, Ning Li, Wuyungerile Li, Fei Gao, Ruihong Wang and Bing Jia. Research on the data stacking problem of energy-based packet prioritization in EH-WSN Haizhou Du and Ming Li. FlowSeer: A Novel Framework for Generalized Network Performance Statistication at Flow Level Shuting Yang, Keyu Chen, Wei Feng and En Cheng. A Fair and Energy Efficient Clustering Routing Protocol Based on Link Quality for Underwater Acoustic Sensor Network 	447	Kun Yan, Hao Hu, Gang Xu, Yuqi Wang, Gaofeng Zhang and Lijie Li. Selfish node filtering algorithm based on opportunity network
 kan hui Liu, Yifeng Zhao, Xiaoqi Wang, Bo Wang and Keyi Cheng. Intelligent Convergence: Advancing 6G mmWave Networks with RIS-Enhanced ISAC for IoT Applications kan bengyu Hou, Ning Li, Wuyungerile Li, Fei Gao, Ruihong Wang and Bing Jia. Research on the data facking problem of energy-based packet prioritization in EH-WSN kaizhou Du and Ming Li. FlowSeer: A Novel Framework for Generalized Network Performance Estimation at Flow Level kaizhou Du ang, Keyu Chen, Wei Feng and En Cheng. A Fair and Energy Efficient Clustering Routing Protocol Based on Link Quality for Underwater Acoustic Sensor Network 	478	Yujie Zhang, Peng Li, Weibei Fan and Ruchuan Wang. QTSRA: A Q-learning-based Trusted Routing Algorithm in SDN Wireless Sensor Networks
 beneformed and beneformed and beneform	653	Xuan Hui Liu, Yifeng Zhao, Xiaoqi Wang, Bo Wang and Keyi Cheng. Intelligent Convergence: Advancing 6G mmWave Networks with RIS-Enhanced ISAC for IoT Applications
694Haizhou Du and Ming Li. FlowSeer: A Novel Framework for Generalized Network Performance Estimation at Flow Level710Shuting Yang, Keyu Chen, Wei Feng and En Cheng. A Fair and Energy Efficient Clustering Routing Protocol Based on Link Quality for Underwater Acoustic Sensor Network	662	Zhengyu Hou, Ning Li, Wuyungerile Li, Fei Gao, Ruihong Wang and Bing Jia. Research on the data stacking problem of energy-based packet prioritization in EH-WSN
710 Shuting Yang, Keyu Chen, Wei Feng and En Cheng. A Fair and Energy Efficient Clustering Routing Protocol Based on Link Quality for Underwater Acoustic Sensor Network	694	Haizhou Du and Ming Li. FlowSeer: A Novel Framework for Generalized Network Performance Estimation at Flow Level
	710	Shuting Yang, Keyu Chen, Wei Feng and En Cheng. A Fair and Energy Efficient Clustering Routing Protocol Based on Link Quality for Underwater Acoustic Sensor Network

E3: Industrial Internet, Internet of Things, Cyber-Physical Systems, Industry 4.0 (1) Room: R5 Time: 13:30 - 15:30	
22	Jijing Cai, Han Zhu, Hailin Feng, Long Wen, Wei Wang, Meilei Lv and Kai Fang. Vehicle Trajectory Prediction Based on Dynamic Graph Neural Network
34	Shiming He, Genxin Li, Qingqing Guo and Kun Xie. Multi-Graph Structure Learning-based Multivariate Time Series Anomaly Detection with Extended Prior Knowledge
42	Caipeng Gu, Jijing Cai, Zhihao Wen, Jiefan Qiu, Wei Wang, Meilei Lv and Kai Fang. Visible Light Secure Communication Method for Internet of Vehicles
44	Shuai Wang, Siye Wang, Yue Feng, Weiqing Huang, Shang Jiang and Yanfang Zhang. RP- Fusion:Robust RFID Indoor Localization Via Fusion RSSI and Phase Fingerprint
45	Fanfan Hao, Zhu Wang, Yaobing Xu, Siyuan Leng, Liang Fang and Fenghua Li. Missing Data Completion for Network Traffic with Continuous Mutation Based on Tensor Ring Decomposition
68	Bin Ren, Yongdong Wei and Chunhong He. Dynamic Adaptive Graph Convolutional Networks for Traffic Flow Regulation
807	Yingchao Wang, Chen Yang, Shulin Lan, Weilun Fei, Lihui Wang, George Q. Huang and Liehuang Zhu. Towards Industrial Foundation Models: Framework, Key Issues and Potential Applications
82	Huan Li, Xiangjie Kong, Guojiang Shen, Xiaoran Yan, Yao Yang and Mario Collotta. Point-Correlate Adversarial Transformer for Unsupervised Multivariate Time Series Anomaly Detection

E4: Industrial Internet, Internet of Things, Cyber-Physical Systems, Industry 4.0 (2) Room: R5 Time: 15:45 - 17:45	
91	Tianye Gao, Wang Qi, Kehong Liu, Shengbao Li, Ruihai Ge and Tianning Zang. MTS-IoT: A Robust Encrypted IoT Traffic Classification via Multi-dimensional Time Series
98	Zhiyu Wu and Yisu Wang. Qiao: DIY your routing protocol in Internet-of-Things
100	Li Juan Xu, Zhi Ang Yao, Da Wei Zhao and Xin Li. GNN-ASG: A Double Feature Selection-based Adversarial Sample Generation Method in Industrial Control System
139	Qianwen Mao, Mulan Yang, Xuehan Hou, Lvqing Yang, Wensheng Dong, Bo Yu and Qingkai Wang. RFRN: Cross-domain RFID Activity Recognition Using a Few Samples
157	Cong Wu, Sicheng Lei, Huawei Xu and Tongzhen Xing. Multi-scale Fusion Attention Network for Industrial Surface Defect Classification
166	Sixian Chan, Aofeng Qiu, Wei Pan and Jiafa Mao. Attention-Enhanced Multi-View Stereo with Probabilistic Depth Variance Refinement
172	Weiwei Xing, Xinwei Yao, Chufeng Qi, Qiang Li, Weiqiang Wang and Xing Fu. Simulated Annealing Deep Q-learning Incentive Mechanism for Mobile Crowd Sensing
177	Zhongyun Li, Yan Zhao, Yihong Wang, Zongyang Liu and Yushan Pan. A novel model for product defect detection based on the automatic aspect term extraction

E5: Industrial Internet, Internet of Things, Cyber-Physical Systems, Industry 4.0 (3) Room: R5 Time: 08:00 - 10:00

182	Haoran Liu, Yifeng Zhao, Xuanhui Liu, Bo Wang and Keyi Cheng. Deep Learning Empowered IoV: ISAC RCG-Net Beam Tracking for Seamless Road Communication
183	Yichen Chen, Yuqi Pan, Ruyu Liu, Haoyu Zhang, Guodao Zhang, Bo Sun and Jianhua Zhang. 360ORB-SLAM: A Visual SLAM System for Panoramic Images with Depth Completion Network
184	Tinglong Tang, Sheng Hua, Shuifa Sun, Yirong Wu, Yuqi Zhu and Chonghao Yue. Optical flow guided pyramid network for video salient object detection
198	Bo Wang, Yang Yang, Yu Zhang, Cheng Zhan and Fei Wang. DeepVNP:Virtual Network Placing with Deep Reinforcement Learning in Industrial IoT
200	Gang Wu, Yanming Chen and Yiwen Zhang. MicroENet: An Efficient Network for MCUs with Low Model Parameters and Peak Memory
208	Zhao Caidan, Li Xiang, Gao Chenxing and Wu Zhiqiang. Video Anomaly Detection Framework Based on Motion Consistency
212	Jiarui Zhang and Zhenguo Du. AcouController: Motion Based Acoustic Remote Control for Smart Devices
224	Shuhua Yuan, Yongqi Ge, Jiayuan Wei, Zhenbo Yuan, Rui Liu and Xian Mo. Reinforcement Learning based Battery Energy Neutral Operation for EHWS

E6: Industrial Internet, Internet of Things, Cyber-Physical Systems, Industry 4.0 (4) Room: R5 Time: 10:15 - 12:15

290	Zhuozhen Xu, Sixian Chan, Bin Guo, Wenhui Zhou and Xiaolong Zhou. Multi-Target Multi-Camera Tracking based on lightweight detector
326	Jian Ge, Jianwu Rui, Hengtai Ma, Bin Li and Yeping He. Contextual Insight: Detecting Abnormal Device Behaviors in IoT Systems
335	Chen Kai, Yao Junfeng, Li Yuanhang, Zhang Han, Shen Huabo, Qian Quan and Wu Xing. GTPCR: Graph-Enhanced Transformer for Point Cloud Registration
337	Xueqi Ren, Xin Chen, Libo Jiao, Xin Dai and Zhe Dong. Joint optimization of UAV trajectory planning, video cache placement and transcoding in UAV-assisted 6G networks: a PPO-L based approach
341	Yuanhang Li, Junfeng Yao, Kai Chen, Han Zhang, Xiaodong Sun, Quan Qian and Xing Wu. A Collaborative Anomaly Localization Method Based on Multi-Modal Images
343	Zhuoqun Xia, Xiangyu Lei, Shiyu Wang and Zhenzhen Hu. A Photovoltaic Power Theft Detection Method based on Data-driven Stacking Model
375	Chen Houjin, Yang Lvqing, Yang Mulan, Hou Xuehan, Chen Sien, Dong Wensheng, Yu Bo and Wang Qingkai. Spatio-temporal feature fusion model based on Attention mechanism for RFID indoor positioning
425	Lingfeng Yao, Anran Hou, Weina Niu, Qingjun Yuan, Junpeng He and Yanfeng Zhang. Gedss: A Generic Framework to Enhance Model Robustness for Intrusion Detection on Noisy Data

	E7: Industrial Internet, Internet of Things, Cyber-Physical Systems, Industry 4.0 (5) Room: R5 Time: 13:30 - 15:30
431	Bin Dai, Yuan Qiu and Weikun Feng. Scalable Computation Offloading for Industrial IoTs via Distributed Deep Reinforcement Learning
452	Shuo Yan, Jiaxi Wang and Ji Liang. Big Data Storage and Analysis System for Space Application
468	Cai Jie Guo, Yan Tang, Xiaobing Li and Peihao Ding. Automated Test Case Generation Based on Path Structure Matrix and Mainfold-Inspired Search
673	Shaohui Jin, Yayong Zhao, Hao Liu, Jiaqi Wu, Zhenjie Yu and Mingliang Xu. Non-Line-of-Sight Long- Wave Infrared Imaging based on Nestformer
479	Jinhui Yu, Caidan Zhao, Xiangyu Huang and Yicheng Zheng. RF Fingerprint Recognition for Different Receiving Devices Using Transfer Learning
491	Yong Wang, Wei Zhang, Daifeng Zhang, Yanqiang Li and Dongbing Zhang. Research on key scene trajectory generation method based on BLA-VAE
506	Shizhao Tian, Zhen Wang, Kaiyu Xie, Fansong Chen and Hongsong Zhu. Fog-Enabled Intrusion Detection Method Integrating Bi-LSTM and Multi-Head Self-Attention for IoT
523	Kangkang Liu and Ningjiang Chen. PTQ-SO: A Scale Optimization-based Approach for Post-training Quantization of Edge Computing

F1: Industrial Internet, Internet of Things, Cyber-Physical Systems, Industry 4.0 (6) Room: R6 Time: 13:00 - 15:00	
527	Zhi Chen, Cuifeng Du, Yuyu Zhou, Haoxuan Guan, Xiujie Huang, Zhefu Li, Changjiang Liu, Xiaotian Zhuang, Xingyu Zhu and Quanlong Guan. YTCNet: A Real-time Algorithm for Parcel Damage Detection with Rich Features and Attention
563	Chunwen Liu, Hongchen Yu, Juxin Xiao, Feng Dai and Jie Yin. STE-PFL: Spatial-Temporal Enhanced Personalized Federated Learning for IoT Cross-Domain Access Decision-Making
569	Zhuoqun Xia, Shiyu Wang, Jingjing Tan and Zhenzhen Hu. Stacking Ensemble Learning Network Attack Detection Based on Industrial Processes in CPS-Enabled Smart Water Conservancy
573	Jian Song, Xiang Li, Zhenqiang Zhang, Zhigang Zhao, Chunxiao Wang, Shunfang Wu, Suiping Qi and Jialiang Lv. A Predictive Framework for Shipborne Wind Speed Measurement Correction Based on Self-Supervised Contrastive Learning
595	Shaojie Ma, Cairui She and Gang Shi. Implementing Fuzz-Based Technology for Detecting Spectre- Style Vulnerabilities
602	Jiale Xie, Libo Feng, Fake Fang, Zehui Yuan, Xian Deng, Junhong Liu, Peng Wu and Zhuo Li. A Blockchain-based Federated Learning Framework for Defending Against Poisoning Attacks in IIOT
613	Tieming Chen, Xiaoyang Tian, Yinglong Li, Zechen Liu and Qingyan Jiang. fuzzyFollow: A Novel Privacy-Aware Intelligent Vehicle-Following Scheme for Safe Driving on Risky Roads Using Fuzzy Sets
620	Lingxiang Meng, Rongrong Xi, Ziang Li and Hongsong Zhu. PG-AID: An Anomaly-based Intrusion Detection Method Using Provenance Graph

F2: Industrial Internet, Internet of Things, Cyber-Physical Systems, Industry 4.0 (7) Room: R6 Time: 15:15 - 17:15	
434	Jiabin Pei, Xiaoming Wu and Xiangzhi Liu. YOLO-RDD: A road defect detection algorithm based on YOLO
607	Xiao Dong, Xiaojun Zheng and Yaning Song. Knowledge Graph-based Optimization of Multi-AGV Cooperative Handling in Flexible Workshops
637	Enze Zhao, Peng Li, Zhang Cheng, Wenmao Liu, Lei Nie, Haizhou Bao, Qin Liu and Kai Zhang. Masked Transformer-based Multi-GAN for 5G Core Network KPI Anomaly Detection
451	Shuwei Wang, Xiao Chen, Molan Long, Qiuyun Wang, Rongqi Jing and Zhengwei Jiang. A Novel Detection System for Multi-Architecture IoT Malware
700	Zhenchao Chen, Mulan Yang, Xuehan Hou, Lvqing Yang, Wensheng Dong, Bo Yu and Qingkai Wang. RFID-Based Indoor Human Behavior Recognition Using SATCN: A Self-Attention Enhanced Temporal Convolutional Network
654	Guangshun Li, Xueli Gao and Junhua Wu. Blockchain-Based Device Reputation Assessment in the Industrial Internet of Things
561	Bing Liu, Weizheng Cheng, Shiqiang Hu and Lingkun Luo. Application of Network Slicing in UAV Ground Communication Systems
543	Jinqing Li, Qi Qi, Ni Li and Yibo Han. Robust modeling of the multi-depot vehicle routing problem under uncertain demands

F3: Collaborative Processing of Big Data (1) Room: R6 Time: 13:30 - 15:30	
31	Yunpeng Ma and Qing Yu. CGTS: A Transformer framework for time series prediction based on feature extraction
46	Zhongkai Tong, Ziyuan Zhu, Yuxin Liu, Yusha Zhang and Dan Meng. KSM: Killer of Spectre and Meltdown Attacks
53	Hengwei Zhang, Yuejia Wu and Jian-Tao Zhou. A Weighted Flat Lattice Transformer-based Knowledge Extraction Architecture for Chinese Named Entity Recognition
106	Ziyuan Cui, Zhongwen Guo, Jinxin Wang and Weigang Wang. CombinE: A Fusion Method Enhanced Model for Knowledge Graph Completion
123	Jinghong Yang and Qing Yu. WDFormer: Acceptable Field Growth Transformer with Windows for Long Sequence Time-Series Forecasting
137	Xinli Liu and Ming Yang. The Research of Small Object Detection based on YOLOX in UAV
140	Baojie Tian, Liangjun Zang, Haichao Fu, Jizhong Han and Songlin Hu. Towards More Effective and Transferable Poisoning Attacks against Link Prediction on Graphs
160	Guangyu Lin, Hongbin Zhang, Zhenyi Fan, Lianglun Cheng, Zhuowei Wang and Chong Chen. Improving Distantly-Supervised Relation Extraction through Label Prompt

F4: Collaborative Processing of Big Data (2) Room: R6 Time: 15:45 - 17:45	
161	Han Liu and Yunxu Bai. Security and Efficient Data Verification Protocol for Distributed Database based on Zero-knowledge Proof
163	Xingming Liao, Nankai Lin, Haowen Li, Lianglun Chen, Zhuowei Wang and Chong Chen. Composited-Nested-Learning with Data Augmentation for Nested Named Entity Recognition
217	Fang Luo, Jie Liu, George To Sum Ho and Kun Yan. Unsupervised Cross-domain Object Detection via Multiple Domain Randomization
246	Yu Zhang, Jianqiang Zhang, Gongpeng Song and Qin Lu. A Novel Text Matching Model Based on Multilayer Coding and Feature Enhancement
265	Haitao Wang, Rui Wang, Peng Zou, Qingjian Ni and Xiao Sun. MCAN: An Efficient Multi-Task Network for Facial Expression Analysis
270	Bo Cui and Dou Hao. ADGRL:A Deep Graph Reinforcement Learning Model with Attention for Online Judge Exercise Recommendation
271	Fengming Zhang, Pan Hu, Hongming Cai and Lihong Jiang. Parallel Collaborative Reasoning Approaches Based on DatalogMTL in IoT Scenarios
663	Gongzhuang Peng, Ningyi Wang, Xuejun Zhang and Dong Xu. Multimodal Knowledge Graph- Enabled Steel Product Development

F5: Collaborative Processing of Big Data (3) Room: R6 Time: 08:00 - 10:00

273	Jia Yi, Xiaoming Wu, Yunfeng Dong, Bei Qi and Xiangzhi Liu. Collaborative Computation Model Based on Dependency Types and Constituent Trees for Aspect-Based Sentiment Analysis
278	Lingjun Fan, Qinpei Zhao, Jiasheng Shi, Fu Lin and Weixiong Rao. Learn to Simulate Finite Element Analysis via Mesh-based Graph Networks
282	Shiwei Liu and Yong Xu. Multi-behavior Enhanced Self-supervised Graph Learning for Social Recommendation
286	Zhen Wu and Li Zhang. EPFA-Net: An Enhanced Partial Feature Aggregation Network for Remote Sensing Object Detection
292	Ziqi Liang, Haoxiang Shi, Jiawei Wang and Keda Lu. EM-TTS: Efficiently Trained Low-Resource Mongolian Lightweight Text-to-Speech
294	Pengsheng Li, Qingfeng Du and Shengjie Zhao. KEWS: A KPIs-Based Evaluation Method of Workload Simulation On Microservice System
303	Ronghuan Zhang, Jing Zhao, Ming Li and Qingzhi Zou. FEST: Feature Enhancement Swin Transformer for Remote Sensing Image Semantic Segmentation
311	Rui Wang, Haitao Wang, Peng Zou and Xiao Sun. WR-Former: Vision Transformer with Weight Reallocation Module for Robust Facial Expression Recognition

F6: Collaborative Processing of Big Data (4) Room: R6 Time: 10:15 - 12:15	
312	Zituo Li, Jianbin Sun, Xuemei Yao, Ruijing Cui, Bingfeng Ge and Kewei Yang. An interpretable adversarial robustness evaluation method based on robust paths
313	Lihong Zhang, Jing He, Yamei Nie, Xiaokang Zhou, Qiqi Chen and Guosheng Kang. JMF-SS: Joint Matrix Factorization for Web API Recommendation with Mashup-Mashup Similarities and API-API Similarities
327	Shuo Zhao, Yiyun Xing, Jianqiang Zhang, Gongpeng Song and Qin Lu. SCTAR: A Multi-Layer BiLSTM-Based Chinese Short Text Similarity Computation Model with Attention Mechanism
332	Lin Li and Jinghua Zhu. Causal Inference for Eliminating Popularity Bias in Session-based Recommendation
352	Tie Hua Zhou, Tian Yu Jin, Xi Wei Wang, Ling Wang and Keun Ho Ryu. Mining Latent Topical Key Phrase from Content to Context in Unrestricted Healthcare Data
367	Tie Hua Zhou, Huai Lin Zhao, Ling Wang, Fu Tao Ma and Lei Kou. Dynamic Multi-Indicator Fusion Model for Real-Time Prediction Analysis
368	Li Zhang, Yong-Ai Zheng and Xue-Rui Lv. Position Attention Mechanism-based Ensemble Network for Trend Prediction of Limit Order Book
404	Yanan Zhang, Chaofan Wu, Rongkun Shi and Yiying Zhang. A Simple Method to Improve the Performance of Small Pre-trained Language Models on Few-shot Tasks

F7: Collaborative Processing of Big Data (5) Room: R6 Time: 13:30 - 15:30	
407	Jinhang Chen and Rong Yan. EMGCN: Enhancement Graph and Multi-head Attention Graph Convolutional Networks for Aspect-based Sentiment Analysis
782	Lin Li, Yunqi Mai, Yu Chu, Xiaohui Tao and Jiaming Yong. An Urban Air Quality Prediction Model based on Dynamic Correlation of Influencing Factors
774	Wenjin Ji, Xianling Mao, Jinyu Liu, Rong-Cheng Tu and Heyan Huang. Data-Focus Proxy Hashing
741	Jiaji Ma, Xiangge Li, Hong Luo and Yan Sun. NetKD: Towards Resource-Efficient Encrypted Traffic Classification Using Knowledge Distillation for Language Models
735	Wenyue Li, Sapae Phyu, Qin Liu, Bowen Du, Junyan Zhang and Hongming Zhu. RSTIE-KGC: A Relation Sensitive Textual Information Enhanced Knowledge Graph Completion Model
721	Youliang Huang, Jue Zhang, Xiaolin Chai and Yan Sun. TopoRCA: A Lightweight Root Cause Analysis System Based on Application Topology
649	Xiang Wang, Yuanyu Wang, Yu Dai, Chi Wei and Yuliang Tang. UDTL: Anomaly Detection Based on Unsupervised Deep Transfer Learning
689	Donghao Wang, Tengjiang Wang, Hao Qi, Shijun Liu and Li Pan. Research on Multi-Model Fusion for Multi-Indicator Collaborative Anomaly Prediction in IoT Devices

	G1: Collaborative Processing of Big Data (6) Room: R7 Time: 13:00 - 15:00	
672	Kamran Yaseen Rajput, Xiaoping Li, Abdullah Lakhan, Jinquan Zhang, Abdul Rasheed Mahesar and Dileep Kumar Sajnani. Task Scheduling in Multi-Cloud Environments for Spark Workflow under Performance Uncertainty	
659	Yi Yu, Dongsheng Zou, Xinyi Song, Yuming Yang and Kang Xi. MRC-FEE: Machine Reading Comprehension for Chinese Financial Event Extraction	
657	Zhihong Wei, Jianshu Qin and Bangmao Li. Fine-Grained Skeleton-Based Human Action Recognition for Figure Skating	
643	Cheng Li, Jiaqi Wu, Feng Yuan and Yuqing Sun. Promoting Named Entity Recognition with External Discriminator	
641	Shang Xuwen, Zhang Jue, Jiang Xingguo and Luo Hong. Anomaly Detection for Multivariate Time Series Based on Contrastive Learning and Autoformer	
435	Wanchang Jiang and Congcong Yan. High-accuracy classification method of vibration sensing events in ϕ -OTDR system based on Vision Transformer	
433	Yizhe You, Zhengwei Jiang, Kai Zhang, Huamin Feng, Jun Jiang and Peian Yang. TiGNet: Joint entity and relation triplets extraction for APT campaign threat intelligence	

	G2: Industrial Internet, Internet of Things, Cyber-Physical Systems, Industry 4.0 (8) Room: R7 Time: 15:15 - 17:15
474	Hui Zhang, Zhonghua Miao and Quanke Pan. A Learning-Based Discrete Jaya Algorithm for Multiobjective Sustainable Distributed Blocking Flow Shop Scheduling Problem with Heterogeneous Factories
764	Wenlong Ni and Wenshuang Yan. Optimal control policy based on game theory in WSNs
628	Yuechen Zhang, Aimin Li, Xiaotong Kong, Wenqiang Li and Zhiyao Li. FSD-YOLO: An Improved Method for Steel Surface Defect Detection Based on YOLOv5
342	Xin-Wei Yao, Yu-Chen Zhang, Yu-Yi Zhi, Kai-Jie Zhang and Zhi-Heng Yuan. Decouple and Align Sparse R-CNN for End-to-End Object Detection
109	Rui Huang, Jingcheng Zeng, Xuyi Cheng and Jieda Wei. Fine-grained classification for aero-engine borescope images based on the fusion of local and global features
180	Xun Cai, Siwei Xue, Tianyou Wang, Yeqian Yang, Jianguo Lv, Kin-Tak Lau and Yanbo Gao. A Bi- Directional Prediction based on Multi-Stage Deep Multilayer Perceptron for the Productive Process of Polyacrylonitrile Precursor
593	Zhuoqun Xia, Kai Lin, Jingjing Tan and Zhenzhen Hu. Collaborative Detection Method against False Data Injection Attacks in Microgrid Cyber-Physical Systems
776	Jun Peng, Wei Yuan, Yongjie Liu, Zheng Liu and Heng Li. Sparse Representation GRU-AutoEncoder for Battery Fault Detection of Electric Vehicles

	G3: Collaboration Technology Applications in Aerospace, Automotive, and Manufacturing Room: R7 Time: 13:30 - 15:30
227	Guanwei He, Beichen Ding, Qingqing Huang and Guodong Feng. A Force-free Control Architecture Integrated with Digital Twin for Collaborative Manipulators
330	Hanfeng Jiang, Xiao Xue, Juanjuan Li and Wanpeng Ma. Improve Multi-agent Path Finding by Bridging the Gap between Abstract Algorithms and Specific Application Scenarios
339	Ting Chen, Jinghua Chen, Tao Gao, Shukang Zhu, Zixiang Liu, Zongyang Guo, Ziqi Li and Quanzhao Zhao. A Novel Scene-aware Pedestrian Detection in Dense Scenes
364	Ming Zhang, Yi Hu, Xiangchun Liu, Yanghao Zhang, Quan Yi and Wei Song. UAV Swarm Path Planning Algorithm Based on Starling Flocking
366	Li Xu, Zejin Yang, Huiting Guo, Xu Wan and Chunlong Fan. Local Black-box Adversarial Attack based on Random Segmentation Channel
484	Haiyang Zhang, Zhiwei Huo, Caixia Liu, Yingyan Wu and Xiran Zhang. A Lightweight Model for Detecting Dangerous Driving Behaviors in Road Transportation
497	Li Xu, Huiting Guo, Zejin Yang, Xu Wan and Chunlong Fan. Improving Adversarial Robustness by Reconstructing Interclass Relationships
692	Weiliang Zeng, Yushi Li, Rong Chen, Rong Xiang, Yunzhe Wang and Jinghang Gu. MGE-Net: Task- oriented Point Cloud Sampling based on Multi-scale Geometry Estimation

	G4: Security and Privacy in Collaborative Systems (1) Room: R7 Time: 15:45 - 17:45
51	Yuchen Liu, Shanshan Wang, Jin Au-Yeung and Zhenxiang Chen. Encrypted Malicious Traffic Detection Based on Graph Convolutional Network and Temporal Dissection
77	Fan Tao, Zhang Wei, Kang Chunying, Yu Hongchen and Xiao Yao. Generating adversarial samples via a combination of feature selection and optimized perturbation methods
94	Chenbing Dong, Hui Xu, Fukui Li and Mengran Liu. A Collaborative-Enhanced Sand Cat Swarm Optimization for Network Intrusion Detection
105	Mengchuan Shang, Xueying Han, Changzhi Zhao, Zelin Cui, Dan Du and Bo Jiang. Multi-language Webshell Detection based on Abstract Syntax Tree and TreeLSTM
112	Lifang Xiao, Aimin Yu, Hanyu Wang, Lixin Zhao and Dan Meng. MLCAC: Dynamic Authorization and Intelligent Decision-making towards Insider Threats
118	Rui Huang, Zongyu Guo, Qingyi Zhao and Wei Fan. PAPnet: A Plug-and-play Virus Network for Backdoor Attack
125	Jia Li and Hua Zhang. SA-SVD: Mitigating Bias in Face Recognition by Fair Representation Learning

G5: Security and Privacy in Collaborative Systems (2) Room: R7 Time: 08:00 - 10:00	
155	Ziang Li, Jie Xu, Zhenyu Cheng and Tianning Zang. IMTCDF: A Multi-Module-Based Internet Malicious Traffic Classification and Detection Framework
178	Weihua Liu, Xioahui Han, Wenbo Zuo and Yu Sun. HG-ETC: Fine-Grained Application Behaviors Classification From Encrypted Network Traffic
185	Hao Zhao, Wenqi Zhang, Xiong Li, Shuai Shang, Ke Huang and Xiaosong Zhang. Towards Efficient Delegated Private Set Intersection Cardinality Protocol
196	Yusha Zhang, Ziyuan Zhu, Yuxin Liu, Zhongkai Tong, Wenjing Cai and Dan Meng. A Formal Verification Methodology for Cache Architectures Based on Noninterference Hyperproperties
201	Pengju Wang and Jing Liu. ASL: Adversarial Attack by Stacking Layer-wise Relevance Propagation
209	Gaoyu Luo, Zhibin Gao, Sheng Zhang, Lianfen Huang and Linran Chen. FBM-FA: Frame-Level- Attention-Based Facial Behavior Mining for Face Anti-Spoofing
221	Zirong Xu, Weimin Lai and Qiao Yan. FedPGT: Prototype-based Federated Global Adversarial Training against Adversarial Attack

	G6: Security and Privacy in Collaborative Systems (3) Room: R7 Time: 10:15 - 12:15
259	Kehong Liu, Qi Wang, Tianye Gao, Tianxing Ma and Tianning Zang. A Machine Learning-based Method for Clustering the Traffic of Linux NATed Network Entities with TCP/IP Feature
297	Yuxin Liu, Ziyuan Zhu, Yusha Zhang, Zhongkai Tong, Wenjing Cai and Dan Meng. A Module Level Security Evaluation Method Based on Model Checking
302	Dongyang Li, Chenhao Zhang, Hongwei Zhang and Jinsong Wang. GLM-Rf: Malicious smart contract static detection scheme based on GLM and Random forest
304	Wolong Xing, Zhenkui Shi, Hongyan Peng, Xiantao Hu, Yaozong Zheng and Xianxian Li. Personalized federated learning based on feature fusion
310	He Shiming and Guo Chenxi. Memory-efficient anomaly detection method for online data streams
316	Jianjun Zhao, Ru Tan, Yaqin Cao, Xutong Wang, Qixu Liu and Xiang Cui. MalPolymer: A Threat Identification System Utilizing Cognate Malicious Login Behavior Detection
354	Xiang Li, Congcong Chen, Minyu Teng and Yang Shi. Blockchain-based Traceable Selective Disclosure Credentials for Self-Sovereign Identity

	G7: Security and Privacy in Collaborative Systems (4) Room: R7 Time: 13:30 - 15:30
386	Xinhao Liu, Hao Yang and Qiao Yan. Generating Black-box Audio Adversarial CAPTCHAs based on Differential Evolution Algorithm
393	Wenhan Hou, Bo Cui, Yongxin Chen, Ru Li and Wanshui Song. Curriculum Learning for Ethereum Phishing Scam Detection
397	Wenxuan Zhao, Wei Mi and Xiaodan Zhang. The Security Paradox of Smart Contracts: Blind Spots and Prospects of Current Detection Strategies
405	Haitao Xiao, Dan Du, Junrong Liu, Song Liu, Yan Zhu, Yuling Liu and Zhigang Lu. Deep Dive into Insider Threats: Malicious Activity Detection within Enterprise
406	Haotian Wu, Liyue Ren, Xin Wang, Ji Xiang and Ruobing Wang. Common Forgery Artifact Driven Deepfake Face Detection
441	Lihao Wang, Junwei Zhou, Dongdong Zhao, Dongqin Liao, Mengjie Wang and Jianwen Xiang. AEDD: Anomaly Edge Detection Defense for Visual Recognition in Autonomous Vehicle Systems
445	Wenjing Cai, Ziyuan Zhu, Yuxin Liu, Yusha Zhang and Xu Cheng. Oblivious Demand Paging with Ring ORAM in RISC-V Trusted Execution Environments

H1: Security and Privacy in Collaborative Systems (5) Room: R8 Time: 13:00 - 15:00	
507	Haotian Wu, Yu Chen, Xin Wang, Ji Xiang, Lin Wang and Liyue Ren. DST-FRD: A Distillation Method of Swin Transformer for Facial Reenactment Detection
512	Xuanyan Liu, Jinling He, Hu Song, Xinyun Cheng, Luyun Hu and Xiaolong Xu. Anomaly detection and traceback scheme for cloud-edge networks
516	Yongxin Chen, Wenhan Hou, Xin Zhang and Ru Li. Ethereum Phishing Scams Detection Based on Graph Contrastive Learning with Augmentations
409	Zeqing Yan, Guangxi Yu, Mengqi Zhan, Yan Zhang and Jiaxi Hu. 5GC-SDP: Security Enhancement of 5G Core Networks With Zero Trust
518	Liutao Zhao, Lin Zhong, Yujue Wang and Jiawan Zhang. A Batch Payment Scheme with Denomination Privacy
530	Zixuan Chen, Chao Zheng, Zhao Li, Jinqiao Shi and Zeyu Li. Seeing the Attack Path: Improved Flow Correlation Scheme in Stepping-Stone Intrusion
574	Hongyun Cai, Meiling Zhang, Ao Zhao, Shiyun Wang and Yu Zhang. PLFa-FL: Personalized Local Differential Privacy for Fair Federated Learning

	H2: Security and Privacy in Collaborative Systems (6) Room: R8 Time: 15:15 - 17:15
576	Chun Yang, Gang Shi, Yu Wen and Xinqiang Zhao. ASSC: Adaptively Stochastic Smoothing based Adversarial Robustness Certification of Malware Detection Models
586	Wangqing Wu and Jiale Gong. Imporved on Qiu's shemes to resist long-term observation attacks with semantic attributes of location
604	Changsong Yang, Ping Li, Yong Ding, Xiaoling Tao, Huiyong Wang and Ruwen Zhao. A new SM2- based ring signature scheme with revocability and anonymity
622	Huaifeng Bao, Xingyu Wang, Wenhao Li, Jinpeng Xu, Peng Yin, Wen Wang and Feng Liu. CAFE: Robust Detection of Malicious Macro based on Cross-modal Feature Extraction
623	Zhuo Wang, Hongtu Zhang, Jingdong Guo, Laile Xi, Sidy Tambadou, Fang Zuo, Hong Li and Yan Hu. Precise and Efficient Third-party Java Libraries Identification Tool for Collaborative Software
629	Shiyue Huang, Yuchen Su, Hongbo Liu, Huan Dai and Bo Liu. Heart of Betrayal: A PIN Inference Attack Leveraging Photoplethysmography on Wearables
638	Jinli Zhang, Xutong Wang, Ningjun Zheng, Kezhen Huang, Yun Feng and Xiang Cui. XShellGNN: Cross-file Web Shell Detection Based on Graph Neural Network

H3: Security and Priva	acy in Collaborative Systems (7)
Room: R8	Time: 13:30 - 15:30

669Zhijun Cheng, Zhuoting Wu, Zhuopan Yang, Zhenguo Yang, Xiaoping Li and Wenyin Liu. Reinforced
Perturbation Generation for Adversarial Text-based CAPTCHA

- **677** Junwei Tang, Sijie Zhou, Ping Zhu, Tao Peng, Ruhan He, Xinrong Hu and Changzheng Liu. AT-I-FGSM: A novel adversarial CAPTCHA generation method based on gradient adaptive truncation
- **680** Yitan Huang, Jian Qin, Zelin Cui, Ning Li, Bo Jiang and Zhigang Lu. HBGraph: a Host Behavior Graph Model for C&C Traffic Detection
- **687** Haojun Xia, Hongwei Liu, Da Zhang, Haohao Liu, Xiaotong Wang and Bibo Tu. Continuous Authentication Technology Based on Device Driver Behavior
- **693** Wenxuan Lu, Zhuohang Lv, Lanqi Yang, Xiang Luo and Tianning Zang. Efficiently Adapting Traffic Pre-trained Models for Encrypted Traffic Classification
- Jiaxi Liu, Kezhen Huang, Yun Feng, Canhua Chen, Jinli Zhang, Yuqi Shu, Xing Tian and Qixu Liu.
 717 MemAPIDet: A Novel Memory-resident Malware Detection Framework Combining API Sequence and Memory Features
- **749** Hua Ma, Chao Xiong, Xiangru Fu, Zhixiang Huang, Yuqi Tang and Hongy Zhang. National Image Resources Recommendation for Targeted International Communication via E-CARGO Model

745Xiaorong Ma, Jiahe Tian, Zhaoxing Li, Yesheng Chai, Liangjun Zang and Jizhong Han. Explainable
Deepfake Detection with Human Prompts

H4: Security and Privacy in Collaborative Systems (8) Room: R8 Time: 15:45 - 17:45	
750	Weize Wang and Yi Kuang. CipherFormer: Efficient Transformer Private Inference with Low Round Complexity
752	Xin Chang, Wenhui Kong and Xingjun Wang. Preserving Privacy in Collaborative Systems with Secure Multi-Party Summation
771	Angxiao Zhao, Wenying Feng, Ning Hu, Dawei Zhao and Zhaoquan Gu. Knowledge Embedding Enabled Cyber Security Defense for Networked System: A Novel Risk Detection Method based on Knowledge Graph
805	Boyu Zhu, Yuan Zhang, Tingting Chen and Sheng Zhong. Differentially Private K-Means Publishing with Distributed Dimensions
746	Hua Ma, Peiji Huang, Xi Luo, Qiong Huang, Xiangru Fu and Wensheng Tang. Teaching Early Warning Approach for Teachers based on Cognitive Diagnosis and Long Short-term Memory
168	Zhiyuan Cui, Luoyu Mei, Siyuan Pei, Borui Li and Xiaolei Zhou. Privacy-preserving Human Activity Recognition via Video-based Range-Doppler Synthesis
124	Zhengxin Guo, Shizhan Chen, Chao Wang, Hongyue Wu, Kai Ma and Zhiyong Feng. Security- Oriented Architecture for Blockchain-Based Federated Learning in the Financial Industry
751	Xiaoyong Zhang, Zhongke Zhang, Wanwan Ren, Rui Zhang and Heng Li. Extended Cell Similarity- based Cyber Attack Detection Method for DC Microgrids under Variable Load

	H5: Agents and Multi-Agent Systems (1) Room: R8 Time: 08:00 - 10:00
19	Xiaoyu Zhang, Wen Wang, Shuangyin Ren, Xiaomin Gong, Yuxuan Yang and Jingchao Wang. A Two-Phase Task Allocation Strategy With a Hybrid Architecture
40	Xin Cai, Xiaozhou Zhu and Wen Yao. Distributed time-varying group formation tracking for multi- UAV systems subject to switching directed topologies
41	Xuean Huang and Jianmei Su. Intermediate Tasks Enhanced End-to-End Autonomous Driving with Uncertainty Estimation
93	Fei Chen, Hui Xue and Pengfei Fang. TSDNet: An Efficient Light Footprint Keyword Spotting Deep Network Base on Tempera Segment Normalization
127	Haoyu Xiong and Chengfu Yang. Test-Time Adaptation with Robust Dual-stream Perturbation for Stable Agent Deployment in Dynamic Scenarios
141	Jiaxuan Liao, Xin Chen, Libo Jiao, Wang Li and Baichang Wang. Deep Reinforcement Learning Based Cooperative Task Offloading and Resource Allocation in mmWave-Enabled Space-Air-Ground Integrated Networks
251	Chaoran Zhou, Jianhui Guo, Xin Zhang and Kaicheng Yang. Dynamic scheduling method of public transportation resources based on Spatial Graph Convolution and Proximal Policy Optimization
256	Yongqiang Gao, Chuangxin Li and Zhenkun Li. Deep Reinforcement Learning-Driven Adaptive Task Offloading and Resource Allocation for UAV-Assisted Mobile Edge Computing

	H6: Agents and Multi-Agent Systems (2) Room: R8 Time: 10:15 - 12:15
305	Rongrong Yin, Kuankuan Jia, Hao Qin, Mengfa Zhai, Shaoying Ma and Mingqi He. Reinforcement Learning-based Multi-hop Intelligent Route Selection for Vehicle-to-Vehicle Visible Light Communication
325	Jialin Liu, Xinyan Su, Zeyu He and Jun Li. Adversarial Batch Inverse Reinforcement Learning: Learn to Reward from Imperfect Demonstration for Interactive Recommendation
348	Chunyu Liu, Jianjun Yu and Qiang Lin. LIDP: Contrastive Learning of Latent Individual Driving Pattern for Trajectory Prediction
356	Li-E Wang, Hengtong Chang, Rongwen Wei, Xianxian Li, Zhigang Sun, Yongdong Li, Yi Wei and Linghui Meng. Dual Contrastive Learning and Dual Bi-directional Transformer Encoders for Sequential Recommendations
362	Marcos de Almeida, Jano de Souza, Antonio Correia and Daniel Schneider. Exploring Personal Knowledge Ecologies: Dealing with Digital Platform Asymmetries
443	Lingling Lv, Chunjiang Zhang and Weiming Shen. A Deep Reinforcement Learning-based Rescheduling Method for Flexible Job Shops under machine breakdowns
459	Bo Cui and Zhen Yang. FAT: Tilted Federated Learning with Alternating Direction Method of Multipliers
476	Xiaosong Xue, Wei Pan, Fang Yan and Na Li. End-to-end intelligent MCS selection algorithm

	H7: Agents and Multi-Agent Systems (3) Room: R8 Time: 13:30 - 15:30
483	Xinpeng Lu, Heng Song, Huailing Ma, Xueqing Li and Junwu Zhu. Research on Bandwidth- Oriented Distributed Task Allocation Mechanism for Multi-UAV
753	Chen Shen, Yulin Liu and Hua Li. A Relationship Extraction Framework Based on Reinforcement Learning and Machine Reading Comprehension
510	Mei Ni, Yin Sheng, Lipeng Chen and Mengmeng Zhang. A Task Selection Approach for Multiple Unmanned Aerial Vehicles
580	Yuqian Zhuang, Mingya Zhang, Yiyuan Yang and Liang Wang. Analyzing Women's Contributions to Open-Source Software Projects based on Large Language Models
650	Yang Xu, Chen Li, Kun Zhang, Haojun Xia and Bibo Tu. CloudFusion: Multi-Source Intrusion Detection in Cloud Environments
705	Muhammad Asim Ejaz, Guowei Wu, Abid Sultan and Tahir Iqbal. Deep Reinforcement Learning Approach for Enhancing Profitability in Mobile Edge Computing
719	Yu Wu, Niansheng Chen, Lei Rao, Guangyu Fan, Dingyu Yang, Songlin Cheng, Xiaoyong Song and Yiping Ma. SemGO: Goal-Oriented Semantic Policy Based on MHSA for Object Goal Navigation
679	Qiumin Yang, Chaokun Zhang, Tao Tang and Jingshun Du. Dual-Agent Based Collaborative Audio- Video Adaptive Bitrate Strategy under Commuting

I1: Collaboration Platforms, Software Tools, and Services (1) Room: R9 Time: 13:00 - 15:00	
429	Jianli Ding, Yanan Yan and Jing Wang. Multi-fusion algorithm root cause location model based on causal failure dependency graph
524	Jinquan Zhang, Xiaoping Li, Kamran Yaseen Rajput and Long Chen. Reinforcement Learning Based Memory Configuration for Linear Dynamic Function Chains
558	Yu Wan, Yue Jiang, Weiheng Zheng and Xiangwei Zhao. Study of Biopharmaceutical Quality Supervision System Based on IoT and Big Data
566	Jehad Ibrahim, Yanli Li, Huaming Chen and Dong Yuan. Holistic Evaluation Metrics for Federated Learning
572	Huachuan Qiu, Shuai Zhang, Hongliang He, Anqi Li and Zhenzhong Lan. Facilitating Pornographic Text Detection for Open-Domain Dialogue Systems via Knowledge Distillation of Large Language Models
583	Shuai Ding, Jingguo Ge, Yuepeng E, Liangxiong Li, Lei Zhang and Jiye Zhang. Trace Anomaly Detection for Microservice Systems via Graph-based Semi-supervised Learning
655	Yang Xu, Chen Li, Kun Zhang, Haojun Xia and Bibo Tu. EI-XIDS: An explainable intrusion detection system based on integration framework

	I2: Collaboration Theories and Methodologies (1) Room: R9 Time: 15:15 - 17:15
442	Yushuai Hu, Jing Zhao, Ming Li, Lin Yuan, Ronghuan Zhang and Qingzhi Zou. Hybrid Deep Relation Matrix Bidirectional Approach for Relational Triple Extraction
486	Yitong Li, Tianyang Xiong, Shangwei Huang, Zida Han and Qingfeng Wu. Collaborating Smartwatches and HMDs to Enhance User Perception for Touch Manipulation in XR
531	Jiaqi Wang, Tao Sun, Wenjie Zhong, Ziyu Wang and Yefan Zhang. Research on Java Automatic Simplified Modeling Based on Source Code Dependency Analysis
537	Jingman Pei, Mengjie Lv, Weibei Fan, Xueli Sun, Xin He and Fu Xiao. A protection routing with secure mechanism in the data center network WaveCube
606	Yefan Zhang, Tao Sun, Wenjie Zhong, Jiaqi Wang and Ziyu Wang. A TCPN Automatically Modeling Method for Java Parallel Programs Oriented to Performance Analysis
658	Liutao Zhao, Haoran Xie, Lin Zhong and Yujue Wang. Multi-Server Verifiable Aggregation for Federated Learning in Securing Industrial IoT
686	Ziyu Wang, Tao Sun, Wenjie Zhong, Yefan Zhang and Jiaqi Wang. Simplification Method of CPN Model Based on Data Abstraction
605	Yao Pan, Weibei Fan, Mengjie Lv, Xin He and Fu Xiao. Node-disjoint Paths Construction Algorithm in Data Center Network EHDC

	I3: Collaboration Theories and Methodologies (2) Room: R9 Time: 13:30 - 15:30	
377	Xuewei Lin, Haibin Zhu and Dongning Liu. Bus Driver Rostering via Extending Group Multirole Assignment	
399	Dennis Paulino, Joana Ferreira, Antonio Correia, José Ribeiro, André Netto, Joao Barroso and Hugo Paredes. Modelling Aspects of Cognitive Personalization in Microtask Design: Feasibility and Reproducibility Study with Neurodivergent People	
762	Ngoc Luyen Le, Marie-Hélène Abel and Philippe Gouspillou. Exploring Weighted Property Approaches for RDF Graph Similarity Measure	
664	Yang Liu, Xiaohui Han, Wenbo Zuo, Haiqing Lv and Jing Guo. CTI-JE: A Joint Extraction Framework of Entities and Relations in Unstructured Cyber Threat Intelligence	
535	Menghua Jiang and Yin Chen. RASLite: Enhancing (W)PMS Solvers Through Dynamic Initial Weight Approach	
728	Boyu Ding, Xiaofeng Xu, Xianglin Bao, Nan Yan and Ruiheng Zhang. ALMA: Adjustable Location and Multi-Angle Attention for Fine-Grained Visual Classification	
514	Chentong Zhao, Jinpeng Xiang, Lixin Zhao, Aimin Yu, Lijun Cai and Jiangang Ma. EntityParser : A Log Analytics Parser for Identifying Entities from System Logs	
726	Aoling Zeng and Hao Wu. A Fast and Inherently Nonnegative Latent Factorization of Tensors Model for Dynamic Directed Network Representation	
I4: Collaboration Platforms, Software Tools, and Services (2) Room: R9 Time: 15:45 - 17:45		
676	Yuhan Liao, Fang Liu, Lin Lin, Mingbo Hou, Yingying She, Hang Wu, Bin Hu and Qingqiang Wu. iCCBT, an Interactive Approach of CBT for Online Psychological Intervention	
688	Wang Chen, Xiaocong Wang, Chengjia Yu and Yukun Liang. The Fuzzy Analytic Hierarchy Process for Evaluating the Effectiveness of Manned and Unmanned Collaborative Combat	
729	Weike Zhou, Xiaokang Zhou, Jing He, Yamei Nie, Qiqi Chen and Guosheng Kang. Online Course Recommendation by Exploring User Interaction and Course Description	
768	Pengsheng Li, Qingfeng Du, Shengjie Zhao and Pei Fang. Advancing Root Cause Analysis in Cloud- native System with Knowledge Graph Path Embedding Translation	
296	Feng Chen, Li Wang, Jiawei Zhang, Qi Sun and Pinyan Lai. An Attention Model Based Heuristic Algorithm for Storage Selection and Order Picking Path Joint Optimization	
328	Xueqi Li, Kejia Li, Jiayao Liu and Ruipeng Gao. Smartphone-based Indoor Pedestrian Tracking via Transformer	
360	Xiaoqi Wang, Yifeng Zhao, Haoran Liu, Keyi Cheng and Bo Wang. Dual-Objective Optimization for MmWave ISAC Systems via Collaborative Beamforming	
579	Quanlong Guan, Jinneng He, Zhao-Rong Lai, Yuyu Zhou, Quming Jiang and Ziliang Chen. Short- term Portfolio Optimization using Doubly Regularized Exponential Growth Rate	

	I5: Special Session: Generative AI and the Work of the User (1) Room: R9 Time: 08:00 - 10:00
9	Guangbin Bao, Liangliang Sun, Rui Zhang, Bo Zhang, Zhiming Shen and Shuang Chen. Research on Image-text Multimodal Emotions Analysis with Fused Emoji
16	Ling Ou and Gen Feng. Parameter-Efficient Fine-Tuning Large Speech Model Based on LoRA
216	Mingjie Gao, Wei Huang, Zhilei Xu and Sungkwun Oh. Hybrid Ensemble Polynomial Neural Network Classifier: Analysis and Design
218	Guangbin Bao, Zhiming Shen, Chen Liu, Liangliang Sun and Shuang Chen. Multimodal sentiment analysis based on TCN and cross-modal interactive feedback network
133	Zhizhuo Yang and Wei Zhang. Topic Paraphrasing Model for Abstractive Dialogue Summarization
220	Fuyu Gu, Yang Gu, Yiyan Xu, Haoran Sun, Yushan Pan, Shengchen Li and Haiyang Zhang. Language-based Audio Retrieval with GPT-Augmented Captions and Self-Attended Audio Clips
253	Xinpeng Ouyang, Xiaodong Yan and Minghui Hao. A Pre-Trained Language Model Based on LED for Tibetan Long Text Summarization
255	Binbin Li, Yuqing Li, Siyu Jia, Bingnan Ma, Yu Ding, Zisen Qi, Xingbang Tan, Menghan Guo and Shenghui Liu. Triple GNNs: Introducing Syntactic and Semantic Information for Conversational Aspect-Based Quadruple Sentiment Analysis

	I6: Special Session: Generative AI and the Work of the User (2) Room: R9 Time: 10:15 - 12:15
279	Liang Jiao, Yujia Zhu, Wenxiu Zhang, Lei Zhao, Yi Zhou and Qingyun Liu. 6GAI: Active IPv6 Address Generation via Adversarial Training with Leaked Information
281	Heng Liu, Boyue Wang, Yanfeng Sun, Xiaoyan Li, Yongli Hu and Baocai Yin. VIG: Visual Information-Guided Knowledge-Based Visual Question Answering
295	Danni Chang, Renqiu Guo, Yuning Qian and Luyao Wang. A stylized generation approach for poster background graphic design based on light elements
358	Pinyao He, Jingyue Huang and Ming Li. Text Keyword Extraction Based on GPT
392	Minghui Hao, Xiaodong Yan and Xinpeng Ouyang. A Tibetan Text Classification Method Based on Hybrid Model and Channel Attention Mechanism
500	Yuchen Guo, Xi Wang, Xiaomeng Fu, Jin Liu, Zhaoxing Li, Yesheng Chai and Jizhong Han. Generative Transferable Universal Adversarial Perturbation for Combating Deepfakes
502	Yiqi Wu, Xuan Huang, Kelin Song, Fazhi He and Dejun Zhang. 3D Contour Generation based on Diffusion Probabilistic Models
542	Jiawei Huang, Hanyu Deng, Zhaoyi Li, Yijun Li, Jingling Liu, Xiaojun Zhu and Qichen Su. A Conditional Diffusion-based Data Augmentation for Anomaly Detection in AIOps

I7: Digital Twins Room: R9 Time: 13:30 - 15:30	
426	Yunpeng Gao, Tinglong Tang, Shuifa Sun and Yirong Wu. Digital Twin-Based Office Equipment Management and Personnel Detection System
428	Tinglong Tang, Yongjie Wu, Shuifa Sun and Yirong Wu. Campus intelligent decision system based on digital twin
785	Aoxue Li, Xinhua Zeng, Yunlong Du and Chengxin Pang. XRNeRF: View-guided Neural Radiance Fields for Occlusion Removal
742	Peng Zhang, Meijuan Li, Hui Zhao, Yida Chen, Fuqiang Wang, Ye Li and Wei Zhao. Lightweight Fusion Model with Time-Frequency Features for Speech Emotion Recognition
584	Yunkun Cheng, Xiankun Zhang, Fufeng Liu, Danyang Zhao and Xin Luo. PromoterDiff : De Novo Design Approach for Escherichia coli Promoters Based on a Diffusion Model
75	Xiaoyang Ji, Yuchen Zhou, Haofu Yang, Shiyue Xu and Jiahao Li. Self-Supervised Contrastive Graph Clustering Network via Structural Information Fusion

	J1: Special Session: Generative AI and the Work of the User (3) Room: R10 Time: 13:00 - 15:00
581	Hang Pu, Yongsheng Fan, Yunjia Han and Qian Su. Enhancing Ensemble Attacks through Momentum Self-Maintenance
597	Rui Zhu, Yidan Yan, Jiayao Li and Ruizhi Sun. A Multimodal Fusion Generation Network for High- quality MR Image Synthesis
644	Zhixiong Liu, Fang Liu and Mohan Zhang. Intelligent Graphic Layout Generation: Current Status and Future Perspectives
437	Zimu Wang, Wei Wang, Qi Chen, Qiufeng Wang and Anh Nguyen. Generating Valid and Natural Adversarial Examples with Large Language Models
715	Qingmeng Zhu, Tianxing Lan, Zhipeng Yu, Hao He and Xiaoguang Xue. TraitsPrompt: Does Personality Traits Influence the Performance of a Large Language Model?

J2: Special Session: Industry 4.0: Shaping the Future of Manufacturing with Emerging Technologies Room: R10 Time: 15:15 - 17:15	
555	Mengqi Du, Yue Zhang, Jianhua Zhang and Honghai Liu. CRED: A Corneal Reflection and Environment Dataset
570	Baoshou Li, Yu He and Ge Yu. TacWgan-gp: Fabric Texture-Based Tactile Friction Coefficient Generation
621	Xiaoyu Wang, Yu He and Meng Zhao. Realistic Grasping Based on Soft Finger Force Interaction
642	Xin Qin, Pengshuai Yao, Mengna Liu, Xu Cheng, Fan Shi and Lili Guo. Robust Classification of Incomplete Time Series with Noisy Labels
725	Yi Zhang, Fazhi He, Rubin Fan and Bo Fan. View2CAD: Parsing Multi-view into CAD Command Sequences
740	Fu Jiang, Jie Chen, Jieqi Rong, Zini Wang, Yingze Yang and Heng Li. Dynamic Energy Management for IoT-enabled Smart Microgrid using Deep Reinforcement Learning
747	Jun Peng, Haowen Tang, Chenglong Wang, Xin Gu and Hui Peng. Intelligent Vehicles Lane- changing Intention Identification Method with Driving Style Recognition
635	Haonan Yang, Shengsheng Yan, Bolei Chen, Ping Zhong, Yongzheng Cui and Yu Sheng. Robot Autonomous Exploration System Base on Arm-Chassis Collaboration

	J3: Special Session: Smart Sensor Networks and Internet of Things Room: R11 Time: 13:30 - 15:30
464	Zhaohua Zheng, Yiming Hong, Keqiu Li and Qiquan Chen. Federated Learning Incentive Mechanism Based on AoU, Data Quality, and Data Quantity
660	Xuechen Chen, Jiaxuan Yi, Aixiang Wang and Xiaoheng Deng. Wi-Fi fingerprint based indoor localization using few shot regression
784	Dejun Hou, Zefeng Zhang, Mankun Zhao, Wenbin Zhang, Yue Zhao and Jian Yu. Sentence-level Distant Supervision Relation Extraction based on Dynamic Soft Labels
795	Jianrong Wang, Yi Tang, Dejun Hou, Jinchi Wang, Zechen Meng and Tianyi Xu. Structure-Augment based Long-Tailed Knowledge Graph Completion Model
245	Zhaohua Zheng, Zizheng Wang, Xinyu Tong, Keqiu Li and Qiquan Chen. FedAHP: A Heterogeneous Client Selection Method for Federated Learning Based on the Analytic Hierarchy Process in Mobile Edge
261	Luyao Liu, Zhipeng Zhou, Mingwu Chen and Wei Gong. CAT: Cross-Adversarial Training for WiFi- Based Human Activity Recognition
331	Zixuan Chen, Shengjie Zhao, Jin Zeng, Shilong Dong and Geyunqian Zu. CASTNet: Convolution Augmented Graph Sampling Transformer Network for Traffic Flow Forecasting
49	Jingchen Sun, Ning Chen, Songwei Zhang, Zhaolong Ning and Tie Qiu. A Probability-Based Scheme for Generating Robust Internet of Things

	J4: Special Session: Adaptive Collaboration Systems Room: R11 Time: 15:45 - 17:45	
6	Ming Tao, Lingling Liao, Kaitu Li, Ji Xu and Weiming Huang. Optimized-CNN enabled Facial Emotion Recognition within Collaborative Edge Computing	
167	Hua Ma, Zixu Jiang, Xiangru Fu, Mingfa Hong, Zhuoxuan Huang and Hongyu Zhang. Route Planning of City Road Trips Meeting Subjective Preferences and Objective Constraints	
372	Xiaofeng Liu, Haibin Zhu and Dongning Liu. Solving the Energy Supply Strategic Planning Problem by Extended Group Multirole Assignment	
373	Hongze Guo, Haibin Zhu and Dongning Liu. Avoiding Information Leakage in the Formation of Crowdsourcing Teams via Extended Group Multirole Assignment Considering Fairness	
376	Zhixiang Cheng, Haibin Zhu and Dongning Liu. Solving the External Auditor Assignment Problem via GMRACCF	
554	Liang Li, Yuanhui He, Feiyang Huang, Ziming Zhao, Zhuoxue Song, Tong Zhou, Zhenyuan Li and Fan Zhang. An Automated Alert Cross-Verification System with Graph Neural Networks for IDS Events	
456	Zuxu Pei, Tian Song, Chao Wu, Shuye Yue, Yan Li and Xiangtao Hu. Cross-timestep Fault Prediction with Imbalanced Data for Optical Modules in Internet Data Centers	
344	Xinlong Qiao, Kaiqi Zhang, Zhiying Tu and Hongwei Wang. Active Recommendation Strategy Based on Multi-Collaborative Agent	

J5: Special Session: Knowledge-driven Big Data Computing and Its Applications Room: R11 Time: 08:00 - 10:00	
454	Lei Wang, Qi Xu, Jingya Wen, Qiushi Zhang, Shiyuan Wang and Bin Li. Distributed Trusted Authentication Method for Smart Grid Distribution Terminals
501	Jiajun Zhang, Geping Yang, Juan Lu and Yiyang Yang. QFINCH: Quick hierarchical clustering using k-means and first neighbor relations
547	Yifei Zeng, Kai Zhao, Fangchao Yu, Bo Zeng, Zhi Pang and Lina Wang. FedGR: Genetic Algorithm and Relay Strategy Based Federated Learning
618	Tie Hua Zhou, Wanlin Zhang, Wei Ding, Yuan Li and Ling Wang. Deep Semantic Context Analysis Based on Adaptive Knowledge Graph Construction for Artificial Intelligence Domain
718	Wei Ding, Luyao Wang, Wei Zhang, Myung Jin Lee, Ling Wang and Kwang Woo Nam. Similarity Algorithm Based on Minimum Tilt Outer Rectangle Clustering of UAV Videos
727	Qiushi Zhang, Lang Ao, Junfeng Liu, Yang Xi and Dandan Chen. Alzheimer's Disease Risk Genes Mining Based on a Supervised Machine Learning Method and PPI Network Construction
789	Shoryu Teragawa, Lei Wang and Yi Liu. RNA-Protein Binding Sites Prediction Based on RNA Representation and Deep Learning

J6: Collaboration Technology Applications in Social Networks and Entertainment (6) Room: R11 Time: 10:15 - 12:15	
81	Jiajun Wang and Yongqiang Gao. QoE optimization based on Adaptive Bitrate Control for Multi- party Interactive Live Streaming
417	Zhang Xiaobin, Zang Liangjun, Liu Qianwen, Wei Shuchong and Hu Songlin. Triple-Based Data Augmentation for Event Temporal Extraction via Reinforcement Learning from Human Feedback
490	Anbin Xie, Fuqing Zhu, Jizhong Han and Songlin Hu. Integrating Open-domain Knowledge via Large Language Model for Multimodal Fake News Detection
651	Ming Jiang, Shuo Zhang, Feng Zhang, Biao Guo and Yun Li. A Multi-Feature Fusion Method with Inception Architecture for Image Steganalysis
174	Xingyu Yan, Shuai Xu, Yusong Zhang and Bohan Li. ELEvent: An Abnormal Event Detection System in Elevator Cars

J7: Security and Privacy in Collaborative Systems (9) Room: R11 Time: 13:30 - 15:30	
241	Juanru Zhang, Weichao Yang, Yinghui Zhang, Hao Zheng and Tiankui Zhang. DPAdaMod_AGC: Adaptive Gradient Clipping-Based Differential Privacy
499	Zhen Gao, Liyou Wang, Jingning Xu, Hongfei Fan and Rongjie Yu. Robust Hazardous Driving Scenario Detection for Supporting Autonomous Vehicles in Edge-Cloud Collaborative Environments
153	Xiao Zhao, Suzhen Cao, Zheng Wang, Dandan Xing and Dawei Zhou. A Traceable and Anonymous Authentication Ring Signature Scheme with Privacy Protection
361	Jin Wang, Liping Wang and Ruiqing Wang. Multi-granularity Feature Fusion Detection for Encrypted Slow DDoS Attack in SDN
17	Guokun Xu, Weijie Wang, Degang Sun, Yanpeng Ma, Yan Wang and Weiqing Huang. MLNT: A Multi-Level Network Traps Deployment Method

Tianjin University



Tianjin University is a National Key University directly under the administration of the Ministry of the Education, and its history can be traced back to Peiyang University, the first modern university in China, which was founded on October 2, 1895. It was renamed Tianjin University after the nationwide restructuring of colleges and departments in 1951. In 1959, Tianjin University was identified as one of the first batch of the 16 National Key Universities designated by the government, and it is also among the first group of institutions of higher learning to be included into the "211" and "985" Projects of national investment for developing world class universities. During the past years, Tianjin University has made significant contributions to economic and social development, which must be due to its cultivation of a large number of high-level talents, and its outstanding achievements.

To build a strong nation, it is crucial for the education system to be set up and developed for the preservation of talents. The establishment and operation of the University aims to promote education for the ultimate improvement of national strength and prosperity, in accord with the University's motto of "Seeking Truth from Facts". The University exalts preservation of its own traditions, in which the spirit of "precision in learning and strictness in teaching" is encouraged. Patriotism and devotion to the country is also considered worthy goals to hold onto, tied in with multiple avenues to encourage undaunted inquiry into academic truth, to foster competent talent, to pass on the cultural heritages, to buttress the progress of our nation and to create a promising future.

Tianjin University will uphold its people-oriented vision, promote comprehensive reform in an all-round way, constantly improve the systems of a modern university, and strive vigorously toward the goal of becoming a world-class university with Chinese characteristics and TJU traits.

College of Intelligence and Computing



The history of Tianjin university's Computer Science Discipline can be tracked back to 1958 when the Digital Computing Instruments and Devices Discipline of was established. In the context of China's full implementation of the "Double First-Class" strategy, in order to further optimize the discipline layout and promote interdisciplinary fusion, Tianjin University established the College of Intelligence and Computing ("CIC") in May 2018. CIC consists of four schools: School of Computer Science and Technology, School of Computer Software, School of Cybersecurity and School of Artificial Intelligence. It has three first-level disciplines: Computer Science and Technology and Software Engineering are key disciplines in Tianjin. Computer Science Discipline also entered the top 1 ‰ of ESI Global Rankings in 2022. Computer Science and Technology Specialty and Software Engineering Specialty are approved as National First-class Undergraduate Specialty Construction Sites by Ministry of Education.

CIC focuses its scientific research on the international frontier and is committed to promoting the socioeconomic development in China. The Engineering Research Center of the Ministry of Education for Urban Intelligence and Digital Governance was approved in 2022. CIC also participated in the joint construction of the National Astronomical Science Data Center Technology R&D Innovation Center, and the State Key Laboratory for Communication Content Cognition. Meanwhile, CIC is also home to a number of scientific research platforms and resources such as Tianjin Key Laboratory of Cognitive Computing and Application, Tianjin Key Laboratory of Advanced Network Technology and Application, Tianjin Key Laboratory of Machine Learning, Key Research Center for Surface Monitoring and Analysis of Relics, Tianjin University Sub-center of National Supercomputer Center in Tianjin and also Tianjin University Supercomputer Center, etc.

CIC is and will always be education-oriented with academic rigor, focusing on the national major needs and international academic frontiers, aligning with the medium and long-term sci-tech development plan in China, insisting on both high-quality talent training and high-level academic research, striving to become a world-class college that features Chinese characteristics and Tianjin University's spirit.



Crowne Plaza Tianjin Meijiangnan



Meeting rooms R7 to R10 are located on the 2nd floor. Please follow the signposted instructions for guidance.

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Tianjin · China