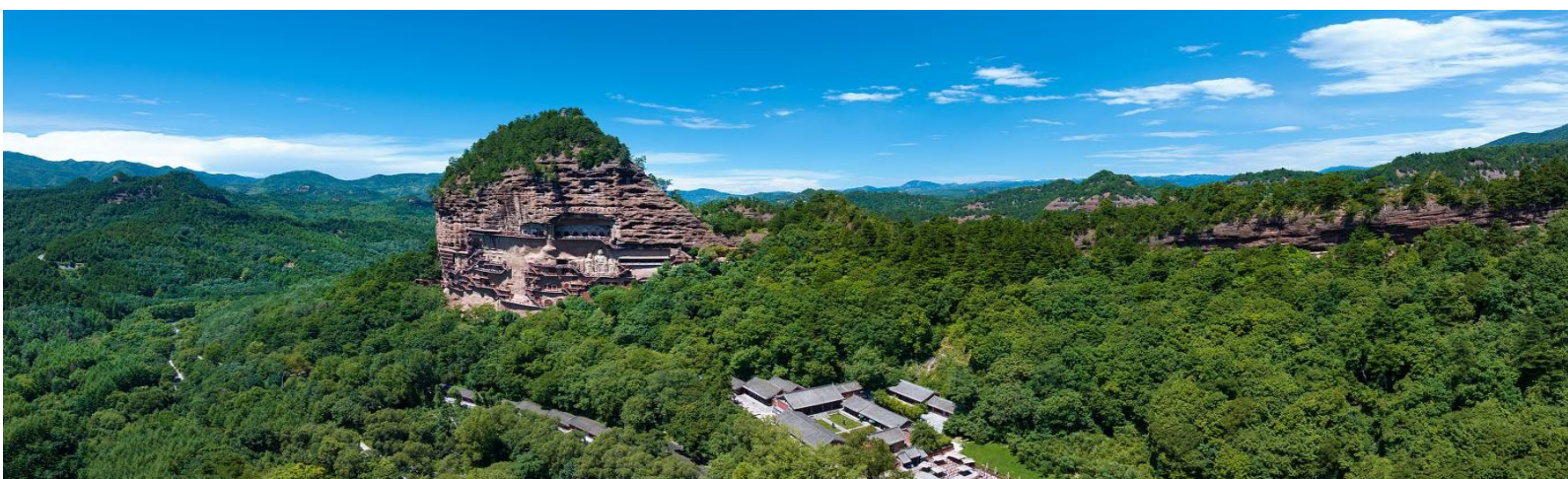


18th International Conference on Advanced Computational Intelligence (ICACI 2026)

August 13 - 16, 2026

Tianshui, Gansu, China

Final Program



Sponsor/organizer:

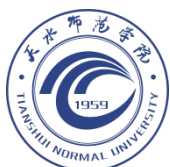


Lanzhou University



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Welcome Messages

On behalf of the Organizing Committee of the 18th International Conference on Advanced Computational Intelligence (ICACI 2026), we are delighted to extend our warm welcome to all participants. The conference is being held in Tianshui, Gansu, China, from August 13 to 16, 2026. Building on the resounding success of previous events, ICACI has established itself as a prestigious, high-quality conference series in advanced computational intelligence. ICACI 2026 aims to provide a high-level international forum for scientists, engineers, and educators to present and exchange the latest advancements in computational intelligence and related disciplines. The technical program features plenary speeches delivered by world-renowned scholars, regular sessions with broad topical coverage, and special sessions dedicated to emerging and trending research areas.

This year, the conference received 71 submissions. Each manuscript was rigorously reviewed by at least two and, on average, three Program Committee members. Following a strict peer-review process, 51 papers were accepted for presentation and inclusion in the conference proceedings. These accepted papers span a diverse range of topics, encompassing theoretical foundations, methodological innovations, and practical applications. In addition to the contributed papers, the conference program features two distinguished plenary speeches. We are deeply honored to have Professor Dacheng Tao (Distinguished University Professor and Inaugural Director of the Generative AI Lab at Nanyang Technological University, a Fellow of the Australian Academy of Science, ACM, and IEEE) and Professor Han-Xiong Li (Chair Professor at City University of Hong Kong, a Fellow of the IEEE, and a highly cited scholar) as our plenary speakers, who will share their insightful perspectives on cutting-edge topics in artificial intelligence and intelligent manufacturing.

The success of this conference would not have been possible without the generous support and dedicated efforts of many organizations and individuals. We would like to express our sincere gratitude to Lanzhou University and Lanzhou University of Technology for their sponsorship and organization, and to Tianshui Normal University, Gansu Vocational University of Industry Technology, and City University of Hong Kong for their co-sponsorship. We also extend our heartfelt thanks to the IEEE Systems, Man, and Cybernetics Society for their technical co-sponsorship. Special appreciation is due to the Program Committee members and reviewers for their thorough and timely evaluations, which ensured the high quality of the accepted papers. We are also deeply grateful to the Organizing Committee and all volunteers for their warm and thoughtful service, which has contributed significantly to the smooth running of the conference. Finally, we thank all the authors, speakers, and participants for their invaluable contributions and support.

We wish you a productive and enjoyable conference, and we hope you have a wonderful stay in the historic and beautiful city of Tianshui!

Jun Wang, General Chair

Han-Xiong Li and Zidong Wang, Advisory Chairs.

Long Jin, Erchao Li, Juntao Liu, Hongfei Zhang, and Yuxiang Zhao, Organizing Chairs

Organizing Committee

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Dan Su, South Central University, Changsha, China

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Li Zhang	The Hong Kong Polytechnic University
Long Zhang	Lanzhou University of Technology
Ruitian Zhang	Jishou University
Yinyan Zhang	Jinan University
Kaijun Zhao	Xidian University
Zihao Zhou	Tianshui Normal University

Program at a Glance

August 13, 2026

On-site Registration @ hotel lobby, Four Points by Sheraton, 13:00 - 17:00

August 14, 2026

Opening Ceremony & Plenary Sessions, Meeting Room 1 (8 th floor)	
9:00 - 9:10	Opening Ceremony
9:10 - 10:10	Plenary Session I: Dacheng Tao
10:10 - 10:30	Coffee break
10:30 - 11:30	Plenary Session II: Han-Xiong Li
11:30 - 13:00	Lunch break
13:00 - 15:00	Parallel Sessions S1-S2
15:00 - 15:20	Coffee break
15:20 - 17:20	Parallel Sessions S3-S4
18:00 - 20:30	Banquet

August 15, 2026

Online Sessions	
8:00 - 11:40	Sessions S5-S6
11:40 - 13:00	Lunch break
13:00 - 18:20	Sessions S7-S9

Plenary Speech I

On Reusing Model Parameters

Professor Dacheng Tao
Nanyang Technological University

Abstract

The rapid rise of large language models and foundation models has fundamentally reshaped the paradigm of deep learning. Beyond conventional end-to-end training, an increasingly important question is how to effectively reuse existing model parameters to improve performance, scalability, and data efficiency. Parameter reuse, through model fusion, knowledge transfer, model editing, and adaptation with limited data, offers a principled alternative to training ever-larger models from scratch.

In this talk, we revisit recent advances in deep model fusion from the broader perspective of parameter reuse. We present a systematic taxonomy of existing approaches and analyze their underlying mechanisms, scalability, and theoretical implications. In particular, we introduce our recent developments, including (1) weight learning based model fusion and data-adaptive MoE upscaling, (2) subspace learning approaches that exploit structured parameter geometry, and (3) enhanced multi-task fusion strategies that integrate pre- and post-finetuning to reduce representation bias between merged and task-specific models.

By framing model fusion as a principled study of parameter reuse, we highlight both its practical advantages, improved efficiency, robustness, and reduced reliance on annotated data, and the open challenges that remain for large-scale foundation models



Dacheng Tao is currently a Distinguished University Professor and the Inaugural Director of the Generative AI Lab in the College of Computing and Data Science at Nanyang Technological University. He was an Australian Laureate Fellow and the founding director of the Sydney AI Centre at the University of Sydney, the inaugural director of JD Explore Academy and senior vice president at JD.com, and the chief AI scientist at UBTECH Robotics. He mainly applies statistics and mathematics to artificial intelligence, and his research is detailed in one monograph and over 300 publications. His publications have been cited over 140K times and he has an h-index 180+ in Google Scholar. He received the 2015 and 2020 Australian Eureka Prize, the 2018 IEEE ICDM Research Contributions Award, 2020 research super star by The Australian, the 2019 Diploma of The Polish Neural Network Society, and the 2021 IEEE Computer Society McCluskey Technical Achievement Award. He is a Fellow of the Australian Academy of Science, ACM and IEEE.

Plenary Speech II

Multiscale Intelligent Learning under Cross-scale Uncertainties for Manufacturing

Professor Han-Xiong Li
City University of Hong Kong, Hong Kong

Abstract

The industrial manufacturing encompasses a variety of production equipment and processes: from single mechanical actions to multiple nested operations, complex production scheduling, and ultimately, intelligent management decisions. The manufacturing process can be viewed as a multi-variables coupled, multi-scale complex system (including fast/slow time scales, space/time scales, etc.). The cumulative errors of distributed operations generate multi-scale and even cross-dimensional uncertainties, which is a key challenge for intelligent manufacturing.

From an engineering perspective: achieving control requires first decomposing the complexity of the process, and then manipulating the specific characteristics of the decomposed components at different levels, including system design (static control), process modeling and control (dynamic control), and data learning and decision-making (intelligent control). From an academic perspective, this is a complex system engineering problem.

Just as quantum physics has touched the boundaries of traditional science, human cognition also faces a similar uncertainty principle: the uncertainty of fuzziness and randomness - two fundamentally different kinds of uncertainty. To date, no one has clearly explained the fundamental differences between these uncertainties and their origins. Although various machine learning methods can extract hidden information from data to some extent, the impact of cross-scale uncertainty always exists, representing an unavoidable long-term challenge for artificial intelligence applications.



Han-Xiong Li received his B.E. degree in aerospace engineering from the National University of Defence Technology, China, M.E. degree in electrical engineering from Delft University of Technology, Delft, The Netherlands, and Ph.D. degree in electrical engineering from the University of Auckland, Auckland, New Zealand. He is currently a chair professor in the Department of Systems Engineering at City University of Hong Kong. Over the past thirty years, he has had the opportunity to work in different fields, including industry and academia. He published about 300 SCI journal papers with an h-index of 62 (Web

of Science). Since 2014, he has been continuously rated as a highly cited scholar in China by Elsevier. Since 2021, he has been consistently ranked among the top 2% of the world's most-cited scientists by Stanford University. His current research interests are in intelligent manufacturing, including process modeling and control, intelligent learning, distributed parameter systems, and battery management systems. He was awarded the Distinguished Young Scholar (overseas) by the China National Science Foundation in 2004, a Chang Jiang scholar by the Ministry of Education of China in 2006, and a scholar in the China Thousand Talents Program in 2010. He is a fellow of the IEEE.

August 13, 2026
On-site registration

August 14, 2026

Meeting Room 2, 8th Floor, Four Points by Sheraton Tianshui

- | | |
|---------------|--|
| 9:00 – 9:10 | Opening Ceremony |
| 9:10 – 10:10 | Plenary Speech by Professor Dacheng Tao
<i>On Reusing Model Parameters</i> |
| 10:10 – 10:30 | Coffee Break |
| 10:30 – 11:30 | Plenary Speech by Professor Han-Xiong Li
<i>Multiscale Intelligent Learning under Cross-scale Uncertainties for Manufacturing</i> |
| 11:30 - 13:00 | Lunch break (Restaurant at the hotel's first floor) |

S1: Neural Networks and Optimization Methods

Chairs: Jiazheng Zhang and Ying Liufu

Meeting Room 2, 8th Floor, Four Points by Sheraton Tianshui

- | | |
|---------------|--|
| 13:00 - 13:20 | <i>Complex Quantum States Reconstructions Based on RBM</i>
Shuang Cong, Chenyu Su |
| 13:20 - 13:40 | <i>An Expensive Many-Objective Optimization Algorithm Based on Hierarchical Uncertainty Weighted Ensemble and Adaptive Filling Strategy</i>
Lisen Wei, Fei Huang, Kewei Zhang, Erchao Li, Xijun Zhang |
| 13:40 - 14:00 | <i>A Matrix-InversioShuangn-Free Discrete Zeroing Neural Network for Time-Dependent Linear Equations</i>
Angjin Li, Ruixuan Chen, Yongxing Xiao, Bolin Liao |
| 14:00 - 14:20 | <i>A Unified Stencil-Selection Framework for Perturbation-Resilient Discrete Zeroing Dynamics in Time-Varying Quadratic Programming</i>
Zhihan Xu, Liang Feng, Ting Choo Yee, Dimitrios K. Gerontitis, Yang Shi, Jiyun Wang |
| 14:20 - 14:40 | <i>Topology-Guided Density Peak Clustering</i>
Wu Heng
<i>Cross-Graph Attention Fusion for Learning to Branch in Chance-</i> |

14:40 – 15:00 *Constrained MILPs*
Kaijun Zhao, Fuhao Gao, Shen Peng, Hong Li, Jin Xie, Yakui Huang

S2: Intelligent Control and Robotics

Chairs: Haochen Zhang and Hongzong Li

Meeting Room 1, 8th Floor, Four Points by Sheraton Tianshui

13:00 - 13:20 *Intention-Mediated Asymmetric Teleoperation Control for Multi-Robot Formations via Anisotropic Flow Fields*
Zhuoyue Zhang, Haochen Zhang, Ruidong Chen, Jinyan Li, Bozhi Tian, Liqiang Fan

13:20 - 13:40 *Finite-Time Neural Dynamics via Nonlinear Activation for Cooperative Control of Multiple Redundant Manipulators*
Kai Wei, Yurong Tao, Xinyu Zhou

13:40 - 14:00 *Multi-Robot Collaborative Interactive Obstacle Avoidance via Spatial-Cooperative Graph Neural Networks and Model Predictive Control*
Zhiyao Zhang, Ruidong Chen, Haochen Zhang, Wei Sun, Zhenyang Jiang

14:00 - 14:20 *Output Formation Control of Heterogeneous Multi-Agent Systems with Measurement Noise*
Kewei Zhang, Minjuan Cai, Erchao Li, Lisen Wei

14:20 - 14:40 *A Novel Position Constraint Control for Time-Delayed Telerobotic Systems Based on IBLF and Smoothing Filter.*
Zhenyang Jiang, Haochen Zhang, Hongbo Zhao, Wei Sun, Zhiyao Zhang

14:40 - 15:00 *LLM-Guided Task Planning with A*-Based Navigation for Autonomous UAVs*
Luwei Liao, Hongzong Li, Li Zhang, Yulong You

15:00 – 15:20 **Coffee break**

S3: Visual Perception and Image Processing

Chairs: Zhengtai Xie and Haoyang Zhang

Meeting Room 2

15:20 - 15:40 *DSDFNet: Dual-Stream Dense-Feedback Network for RGB-T Semantic Segmentation*
Haoyang Zhang, Xiaohong Dong, Nan Du

- 15:40 - 16:00 *Decoupling the Chaotic Key Space: A Deep Feature Hard-Binding Image Cryptosystem via CNN*
Zihao Zhou, Kaibin Wei, LingJie Yuan
- 16:00 - 16:20 *Attention-Enhanced YOLO with Multi-Scale Feature Fusion for Lung Nodule Detection*
Yiqing Li, Yadi Wang, Xingyu Liu
- 16:20 - 16:40 *LLM-Enhanced Adaptive MOEA/D for Solving Multiobjective Problems with Complex Pareto Fronts*
Zhihua Li, Xianpeng Wang, Zhiming Dong, Erchao Li
- 16:50 - 17:00 *Multi-Scale Non-Stationary Attention Learning for Video-Based Depression Severity Regression*
Yixin Cao, Xiaolan Li, Qianqian Shi, Wenxu Zhang

S4: Industrial Intelligence and Machine Learning Applications

Chairs: Huichao Cao and Dongnian Jiang

Meeting Room 1

- 15:20 - 15:40 *Operating Performance Assessment Method for Industrial Process with Local CEI Density Constrained BLS Network*
Huichao Cao, Honghe Du, Dongnian Jiang, Kangyi Li
- 15:40 - 16:00 *Region Transfer-Driven Robust Multiobjective Operational Optimization for Sintering*
Yumeng Zhao, Yuhang Wang, Xianpeng Wang, Erchao Li, Shengxiang Yang
- 16:00 - 16:20 *Health State Representation and Degradation Trend Modeling of a Closed Blast Furnace Based on TCN-MHA-LSTM Under Complex Operating Conditions*
Jianrong Liu, Lei Xi, Qing Wang, Yangming Fan, Wenxu Zhang
- 16:20 - 16:40 *TCN-ECA-LSTM-Based Fault Prediction for Closed Blast Furnace under Complex Operating Conditions*
Qing Wang, Lei Xi, Yangming Fan, Bowei Lv, Wenxu Zhang
- 16:40 - 17:00 *Efficient Solution of Two-Dimensional Transient Radiation Diffusion Equations Based on FBPINN*
Chunmei Yan
- 18:00-20:30 **Social Activities on Yihe Hotel's second floor (义利大酒店二楼)**

August 15, 2026

S5: Neural Computing and Learning Models

Chairs: Liangming Chen and Zhaoyang Song

Zoom at <https://cityu.zoom.us/j/88040871853>

- 8:00 - 8:20 *Primal-Dual Graph Networks: Aligning Message Passing with Approximation Algorithms for Combinatorial Optimization on Graphs*
Krishna Harish
- 8:20 - 8:40 *A Distributed k-Winners-Take-All Network Model With Nonlinear Activation Function*
Yinyan Zhang
- 8:40 - 9:00 *Echo State Network Based on Regularization and Weighted Least Squares*
Xinyi Wang, Xingwei Bai, Xiufang Chen
- 9:00 - 9:20 *An Evolutionary Optimized Residual CNN with Attention-Enhanced LSTM for Intelligent Bearing Fault Diagnosis*
Hao Yang, Xianpeng Wang, Jigang Meng
- 9:20 - 9:40 *Truncated SVD-BLS: Enforcing Flat Minima for Robust Broad Learning via Relative Flatness*
Yixuan Gao, Liangming Chen
- 9:40 - 10:00 *Model and Algorithm Design of Reciprocal Zhang Neuronet and its Link to Steepest Descent Method via Euler Discretization*
Yunong Zhang, Siyi Wang, Ji Lu, Mingzhi Mao, Jianwen Luo, Junyan Liu, Shuai Li

S6: Control and Autonomous Systems

Chairs: Zhengtai Xie and Haoyang Zhang

Zoom at <https://cityu.zoom.us/j/88040871853>

- 10:00 - 10:20 *Adaptive Disturbance Suppression Algorithm for Distributed Optimization Problems with Multiple Constraints*
Haoze Li, Shuoling Chen, Wenwen Jia, Sitian Qin, Jiqiang Feng

- 10:20 - 10:40 *Trajectory Tracking Control of Autonomous Mobile Robots via Linearized Model Predictive Control: Theory and Simulation Validation*
Songlin Yu
- 10:40 - 11:00 *Predefined-time dynamic event-triggering Nash equilibrium seeking algorithm for noncooperative game problems*
Nian Liu
- 11:00 - 11:20 *A Spatial-Temporal-Performance Adaptive Hybrid Sampling Strategy for Mobile Robot Path Planning*
Zhiyuan Zhu, Changchao Liu, Baojie Zhang
- 11:20 - 11:40 *Compliant Control for Variable Stiffness Actuator Based on Active Stiffness Regulation*
Jinliang Liu, Xiujun Wu, Yi Zheng, Liming Zhao, Zhongbo Sun

S7: Image Processing and Computer Vision

Chairs: Jiazheng Zhang and Lisen Wei

Zoom at <https://cityu.zoom.us/j/88040871853>

- 13:00 - 13:20 *Hybrid Regularization of Diffusion Process for Salient Object Detection*
Yangbo Zhang, Danchen Zheng
- 13:20 - 13:40 *Automated Pelvic Segmentation Model with Optimized Global-Local Feature Fusion*
Zhuye Xu, Songbai Li, Ru Qiao, Yucong Guo, Zhaoyang Song, Pengrong Wen
- 13:40 - 14:00 *Fusion ConvNeXt-Based U-Net with Block and FRM for Retinal Blood Vessel Segmentation*
Zhuye Xu, Ru Qiao, Songbai Li, Yucong Guo, Zhaoyang Song, Pengrong Wen
- 14:00 - 14:20 *Safety Detection of Oil and Gas Pipeline Defects Based on Improved YOLOv5*
Zihao He, Zhuye Xu, Songbai Li
- 14:20 - 14:40 *A Practical Study of Foreground Segmentation Effects on Monocular Fruit Reconstruction Using Instant Neural Graphics Primitives*
Bingrong Shen, Xiangguang Dai, Mengjie Xiong
- 14:40 – 15:00 *PSSL-YOLO: Small Object Detection for UAV Aerial Images Based on P2-SGF Detection Head and SOLA-Lite Label Assignment Strategy*
Junjie Hu, Zhigang Gu, Hongguang Li, Teng Shang, Jingyan Leng, Jianchao Fan

S8: Data Mining and Machine Learning Methods

Chairs: Yongji Guan and Haochen Zhang

Zoom at <https://cityu.zoom.us/j/88040871853>

- | | |
|---------------|---|
| 15:00 - 15:20 | <i>Factor Optimized via Lagrange Interpolation Applied as an Attempt to Successive Over-Relaxation (SOR) Iteration Method</i>
Pengyuan Shao, Shuo Wang, Rutao Zhong, Fan Zhang, Yunong Zhang |
| 15:20 - 15:40 | <i>Enhancing Generalization in Federated Learning via Adaptive Gradient Transformation</i>
Huangxuan Cheng |
| 15:40 - 16:00 | <i>A Novel Grey Multi-Scale Relational Analysis Model and Its Applications</i>
Yafang Li, Honghua Wu, Xue Han, Yang Li |
| 16:00 - 16:20 | <i>A Review of Deep Learning Object Detection Algorithms</i>
Zihao He, Zhuye Xu, Songbai Li |
| 16:20 - 16:40 | <i>Batch Weight-Averaged Broad Learning System for Improved Generalization</i>
Chen Xu |

S9: Application-Driven Intelligent Optimization

Chairs: Jiazheng Zhang and Lisen Wei

Zoom at <https://cityu.zoom.us/j/88040871853>

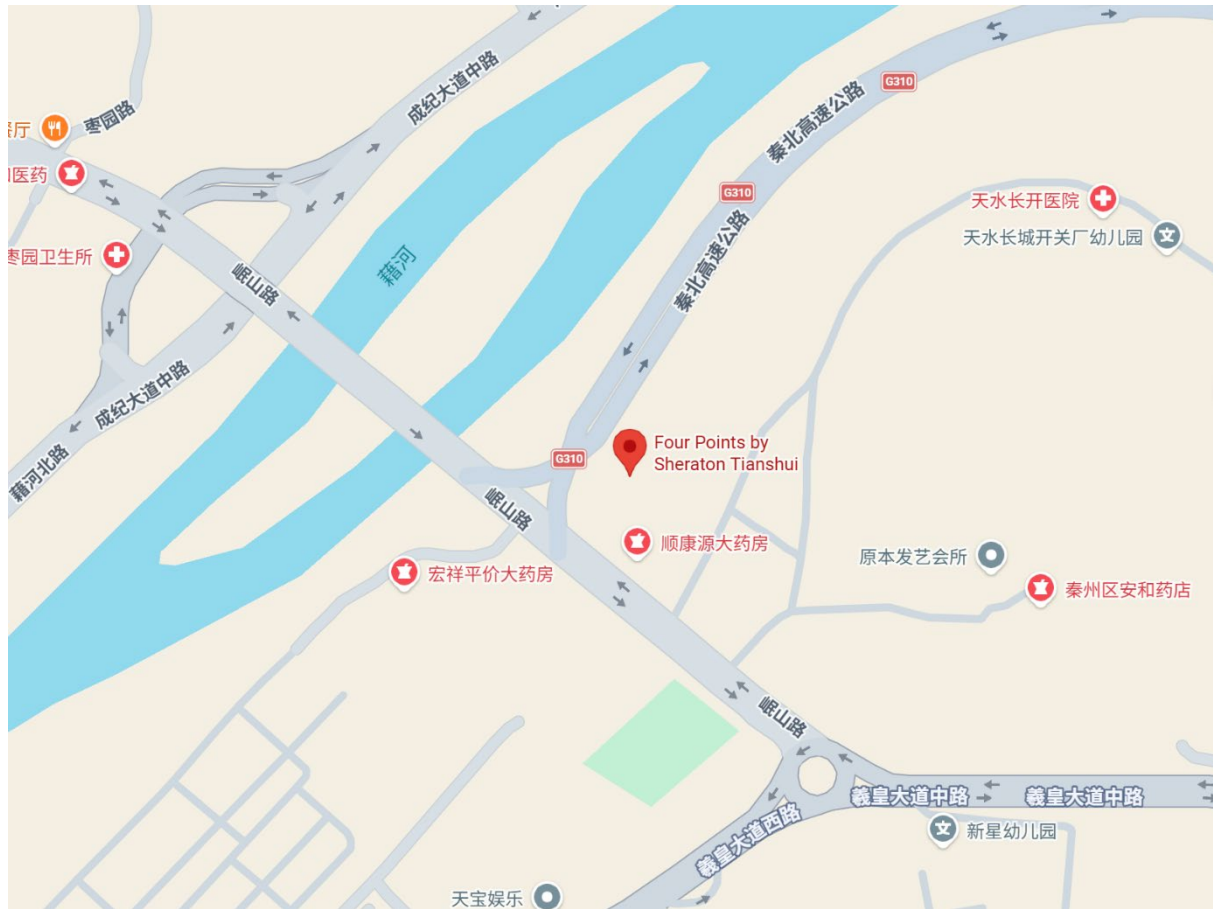
- | | |
|---------------|--|
| 16:40 - 17:00 | <i>Lattice-based Homomorphic Encryption for Privacy-Protecting in IoT</i>
Mengjiao Yang, Ruilin Zhang, Weiwei Wang, Ying Lu |
| 17:00 - 17:20 | <i>Multi-objective Operation Optimization for Hot Rolling Product Quality Based on Mechanics Mechanisms</i>
Yuhang Wang, Yumeng Zhao, Xianpeng Wang, Erchao Li |
| 17:20 - 17:40 | <i>A Method for Generating Seasonal Typical Scenarios Considering the Correlation of Power Output from Renewable Resources</i> |
| 17:40 - 18:00 | <i>Tingting Pei, Xu Wang, Jiale Liu, Huiying Ge</i>

<i>Performance Analysis of Piecewise Time-Varying Parameter Zeroing Neural Network for Solving Sylvester Equation</i>
Ruitian Zhang, Yuhan Dai, Longyi Xu, Yihui Lei |

18:00 - 18:20	<i>The Dynamics of Memory: Replay, Diffusion, and Attractor Formation</i> Priyam Ghosh, Krish Jaiswal, Sauhard Gupta
18:20 - 18:40	<i>A Logical Calculus for Natural Fuzzy Models</i> Alexander Sakharov

- Adjournment -

Map of the Conference Venue



15th International Conference on Intelligent Control and Information Processing

February 8-14, 2027

Vientiane and Luang Prabang, Laos



General Chairs

Phouphet Kyophilavong, National University of Laos, Vientiane, Laos
Jun Wang, City University of Hong Kong, Hong Kong
Ya Zhou, Guilin University of Electronic Technology, Guilin, China

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Local Arrangements Chair

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Fangyu Zhang, City University of Hong Kong, Hong Kong

icicip@cs.cityu.edu.hk

Website

<https://conference.cs.cityu.edu.hk/icicip>

Call for Papers

Sponsors and Organizers: National University of Laos, Guilin University of Electronic Technology, and City University of Hong Kong
Technical co-sponsor: IEEE Systems, Man and Cybernetics Society

The 15th International Conference on Intelligent Control and Information Processing (ICICIP2027) will be held in Vientiane and Luang Prabang (the present and former capitals of Laos), from February 8-14, 2027. The conference will take place at rich historical and cultural sites, including two on UNESCO's World Heritage List and Tentative List. Building on the successes of previous events, ICICIP2027 aims to provide a high-level international forum for scientists, engineers, and educators to present state-of-the-art research and applications across related fields. The conference will feature pre-conference, tutorials, plenary speeches given by world-renowned scholars, regular sessions with broad coverage, special sessions focusing on popular topics, and post-conference tutorials/workshops in conjunction with the main event.

Call for Papers and Special Sessions

Authors are invited to contribute high-quality papers to ICICIP2027. In addition, proposals for special sessions within the conference's technical scope are solicited. Special sessions, organized by internationally recognized experts, aim to bring together researchers on focused topics. Papers submitted for special sessions are to be peer-reviewed using the same criteria as for contributed papers. Researchers interested in organizing special sessions are invited to submit brief proposals to the ICICIP2027 special sessions chairs. A special session proposal should include the session title, a brief description of the scope and motivation, names, contact information, and brief biographical information on the organizers.

Topic Areas

Topics of contributing papers include, but are not limited to, the following areas:

Computer Science and Engineering

Computer networks, computer vision, pattern recognition, virtual, reality, parallel and distributed computing, high-performance computing, artificial intelligence, computer graphics, big data, cloud computing, database management systems, mobile agent computing, quality of services and communication protocol, mobile computing for e-commerce, cryptography and information security, scientific and engineering computing, hybrid computational methods, data visualization and virtual reality, web- and grid-based computing and simulation, possibility theory, Bayes network and hidden Markov models, computational intelligence, granular computing

Control and Automation

Autonomous systems, linear and nonlinear control, robust control, learning and adaptive control, intelligent control, optimization-based and optimal control, model predictive control, fault detection and identification, hybrid intelligent systems, neural control, fuzzy logic control, networked control, industrial automation, process control, robot control, mechatronic systems, vehicle control systems, intelligent transportation systems, environmental monitoring and control, intelligent manufacturing systems, microprocessor-based control, motor control, power control, vehicle control, aerospace control applications.

Signal Processing and Telecommunications

Adaptive filtering & signal processing, audio/speech processing and coding, compressive sensing and sparse representation, higher-order spectral analysis, nonlinear & blind signal processing, neural signal processing, component analysis, array signal processing, parallel and distributed processing, time series analysis, multimedia signal processing, design and implementation of signal processing systems, DSP Implementations and embedded systems, image and multidimensional signal processing, image processing & understanding, multimedia communications, next-generation wireless/wireline communications, communication signal processing, modulation and channel coding, network coding, sensor networks

Bioinformatics and Biomedical Engineering

Microarray data analysis, gene regulation, network, and pathway analysis, identification and classification of genes, protein structure prediction, next-generation sequencing and metagenomics, protein, DNA/RNA structure, function, and interactions, functional genomics and proteomics, molecular evolution and phylogeny, neuroinformatic, brain-computer interface, clinical engineering, rehabilitation engineering, neural engineering, biomedical signal analysis and modeling, bio-imaging, sensing, and data fusion, biomarker discovery, health informatics, healthcare data acquisition, analysis, and modeling, biomedical data knowledge extraction, biomedical data integration, modeling, and preprocessing, biological data mining, knowledge sharing, visualization, and knowledge utilization, biomedical data mining systems and computing platforms, electronic health record acquisition, analysis, and decision support, high performance computing for biomedical data analysis, smart clinical diagnosis and decision systems

Paper Submission

Authors are invited to submit full-length papers (the nominal number of pages is 12) by the submission deadline through the online submission system. Special session organizers are also invited to enlist six or more papers with cohesive topics to form special sessions. The submission of a paper implies that the paper is original and has not been submitted under review or is not copyright-protected elsewhere, and will be presented by an author if accepted. All submitted papers will be refereed by experts in the field based on the criteria of originality, significance, quality, and clarity. The authors of accepted papers will have the opportunity to revise their papers and incorporate the referees' comments and suggestions. Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. Selected high-quality papers may be included in several journal special issues.

Important Dates

Special session proposals deadline.....September 1, 2026
Paper submission deadline.....October 1, 2026
Notification of acceptance.....November 1, 2026
Camera-ready copy and author registration.....December 1, 2026



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