

CONFERENCE PROGRAM



2025 年第 10 届计算智能与应用国际会议

**2025 the 10th International Conference on
Computational Intelligence and Applications**

August 15-17, 2025 | Haikou, China

海口海甸岛希尔顿欢朋酒店

Hampton by Hilton Haikou Haidian Island

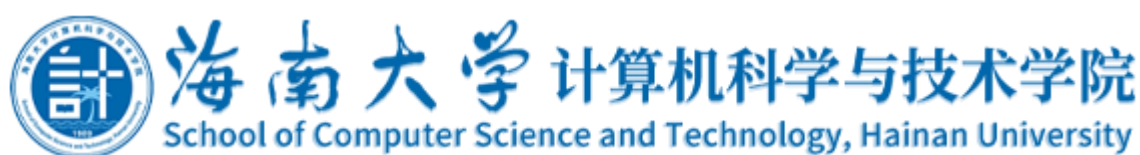
海南省海口市美兰区春华路 3 号

No. 3, Chunhua Road, Meilan District, Haikou City, Hainan Province

Co-sponsored by



Hosted by



Co-hosted by



Patrons



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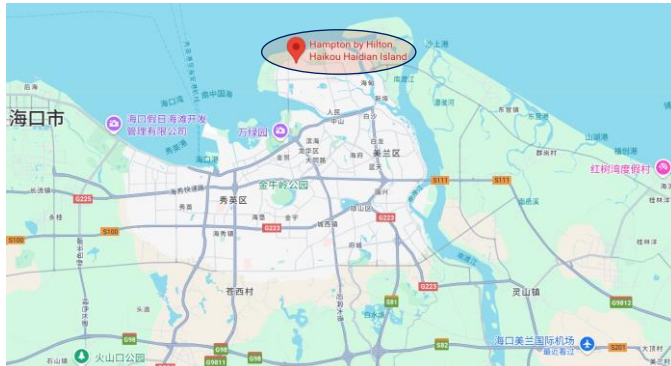
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Note

GENERAL INFORMATION

A Conference Venue



海口海甸岛希尔顿欢朋酒店
Hampton by Hilton Haikou Haidian Island

海南省海口市美兰区春华路3号
No. 3, Chunhua Road, Meilan District, Haikou City, Hainan Province

Room Reservation:

Ms. Jiang, +86-13698962653 | Ms. Qiu, +86-13138988828

If you need to reserve a hotel room, please contact above sales manager to enjoy the conference team rate: 350 yuan per night, including breakfast.

Note: When making a reservation, please inform the hotel that you are a participant attending the ICCIA conference organized by Hainan University.

如需预定酒店客房，请联系销售经理享受会议团队价：350 元/含早

备注：订房请告知酒店是海南大学主办 ICCIA 会议的参会人员。

到达指引

海口海甸岛希尔顿欢朋酒店位于海南省海口市美兰区春华路3号，处于享誉岛中之岛的海甸岛上，毗邻海南大学海甸校区，距离海口美兰国际机场约28公里，假日海滩景区、火山口国家地址公园、观澜湖度假区、海南国际会展中心距离酒店均在30分钟左右车程内。

✈ 距离机场

海口美兰国际机场

距离28公里，打车约50分钟可抵达

🚆 距离火车站

海口东火车站


距离11公里，打车约20分钟可抵达

海口站

距离23公里，打车约42分钟可抵达

GENERAL INFORMATION

B Zoom Meeting ID

 Download (Click) Conference Banner (Click) Zoom Background (Click)	Zoom ID	Meeting Link
	817 8469 6086	https://us02web.zoom.us/j/81784696086

◆Name Setting

Keynote Speaker: Keynote-Name

Author: Paper ID-Name

Committee: Position-Name

Delegate: Delegate-Name

C Onsite Registration

Registration desk (Hotel Lobby) → Inform the staff of your paper ID→ Sign-in→ Claim your conference kit.

D Devices Provided by the Organizer

Oral Session: Laptops (with MS-Office & Adobe Reader) / Projectors & Screen / Laser Sticks

E Devices Provided by the Organizer

Oral Session: Slides (pptx or pdf version). Format 16:9 is preferred.

F Duration of Each Presentation

Keynote Speech: 45min, including Q&A.

Invited Talk: 20min, including Q&A.

Oral Session: 15min, including Q&A.

G Notice

※ Please wear your delegate badge (name tag) for all the conference activities. Lending your participant card to others is not allowed.

※ Please take good care of your valuables at any time during the conference. The conference organizer does not assume any responsibility for the loss of personal belongings of the participants during conference day.

※ **UTC+8, China Standard Time (CST)**. Please be aware of time difference between this and your region/country.

H Contact Us

ICCIA 2025 Secretary: Ms. Rachel Cao

E-mail: iccia@zhconf.ac.cn

Tel.: +86-13880104217

Web: www.iccia.org



Please add Ms. Rachel Cao's WeChat for conference inquiries.

WELCOME MESSAGE

Dear All,

Welcome to 2025 the 10th International Conference on Computational Intelligence and Applications (ICCIA), which will be held in Haikou, China, during August 15-17, 2025, co-sponsored by Hainan University, hosted by School of Computer Science and Technology (Hainan University, China), co-hosted by University of Sanya.

2025 Haikou conference will consist of 3 keynote speeches, successively delivered by Prof. Sinno Pan, (The Chinese University of Hong Kong, China), Prof. Huanhuan Chen (University of Science and Technology of China, China), and Prof. Kaizhu Huang (Duke Kunshan University, China).

2 invited talks from Assoc. Prof. Chuan Luo (Sichuan University, China) and Assoc. Prof. Xijun Liang (China University of Petroleum, China), followed by 2 onsite sessions and 2 online sessions.

It is pleasing to note that the agenda of this conference covers a wide range of interesting topics related to all theoretical and practical aspects, but not limited to Digital Information Systems and Image Analysis Technology, Innovative Applications of AI Theory and Intelligent Interaction Systems in Emerging Fields, and etc.

The papers in the proceedings are accepted after being peer-reviewed by conference committee, international reviewers based on the topic and quality. With the keynote speeches, invited speeches, parallel sessions, we'll have an exciting program this year, which will allow participants to present and discuss the latest research and industrial developments in these fields.

On behalf of the organizing committee, we would like to deeply express our heartfelt appreciation to all our delegates, keynote speakers, invited speakers, session chairs, as well as all the committee members involved in the technical evaluation of conference papers and in the organization of the conference for their time, effort, and great contributions.

We also wish that these conferences will be an unforgettable and wonderful experience for you.

With Warmest Regards,

Conference Organizing Committees

ICCIA 2025

Haikou

CONFERENCE COMMITTEE

Conference Advisory Committee

Huanhuan Chen, University of Science and Technology of China, China (Fellow, IEEE)

Sinno Pan, The Chinese University of Hong Kong, China (Fellow, IEEE)

Conference General Chairs

Zhaohui Wang, Hainan University, China

Faouzi Alaya Cheikh, Norwegian University of Science and Technology, Norway

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Kaizhu Huang, Duke Kunshan University, China

Tao Zhou, North Minzu University, China

Yubing Tong, University of Pennsylvania, USA

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Zhengxia Wang, Hainan University, China

Yi Liu, Beijing Huaxia Rongzhi Blockchain Technology Institute, China

Publicity Chairs

Dian Zhang, Hainan University, China

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Chuan Luo, Sichuan University, China

Xu Wu, Hainan Normal University, China

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Filippo Neri, University of Naples "Federico II", Italy

Jinfu Chen, Jiangsu University, China

Finance Chair

Taohai Chen, Hainan University, China

CONFERENCE COMMITTEE

Technical Program Committees

Alfredo Ibias, Universidad Complutense de Madrid, Spain

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Jiaxin Cai, Xiamen University of Technology, China

Geng Zhang, Jishou University, China

Yiping Cheng, Beijing Jiaotong University, China

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Shyan-Ming Yuan, National Chiao Tung University Hsinchu, Taiwan, China

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Bambang Leo Handoko, Bina Nusantara University, Indonesia

Sheila Marie Mobo Matias, Eulogio "Amang" Rodriguez Institute of Science and Technology, Philippines

Milana Bolatbek, Department of Information Systems al-Farabi Kazakh National University Almaty, Kazakhstan

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Madhumangal Pal, Vidyasagar University, India

Vinay Vakharia, Pandit Dendayal Energy University, India

Dr. Phien Nguyen Ngoc, Ton Duc Thang University, Viet Nam

A. Srisaila, Velagapudi Ramakrishna Siddhartha Engineering College Vijayawada, India

AGENDA OVERVIEW (UTC+8)


Friday, August 15, 2025		
Onsite Registration	14:00-17:00	1F Lobby, Hampton by Hilton Haikou Haidian Island 1F 海口海甸岛希尔顿欢朋酒店 大厅
 Zoom Test for Online Presenters	14:00-15:00	Zoom ID: 817 8469 6086 Link: https://us02web.zoom.us/j/81784696086

Zoom Test Timetable

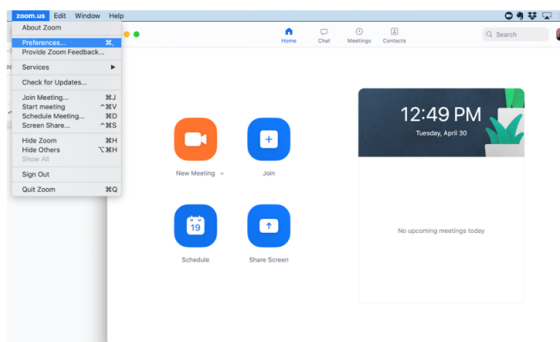
- ✧ Participants who are going to do an online presentation are required to join the rehearsal in Zoom on **Friday, August 15, 2025**. Duration: 2-3min apiece. Feel free to leave after you finish the test.
- ✧ Please get your presentation slides and computer equipment prepared beforehand.


14:00-14:30	AC002, AC017, AC1002, AC032, AC035, C034, AC1006, AC009, AC1007, AC1004, AC033, AC1005, AC037, AC030, AC027
14:30-15:00	Other online participants, includes but not limited to keynote speakers, invited speakers, session chairs, committee members, delegates. Participants who are unavailable during the above allocated time can also join the rehearsal at 14:30-15:00.


Zoom Guidance

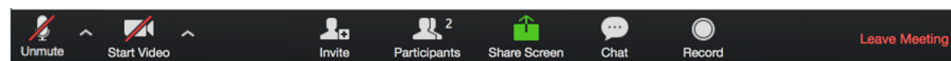
 You can join the meeting without sign-in process. Just put the meeting ID and join us.

 URL: <https://zoom.us/download>



 Each meeting has a unique 9, 10, or 11-digit number called a **meeting ID** that will be required to join a Zoom meeting.

 For any questions on the meeting day, you can text privately to "Assistant" for help.



Audio muted and video off (both indicated by a red slash).

Click to open the Participants box. This will allow you to "Raise Hand".

To share screen or contents.

Click to open the Chat box. This will allow you to chat with Hosts and Participants.

AGENDA OVERVIEW (UTC+8)

Saturday, August 16, 2025 Plenary Meeting	
会议室 Meeting Room 10F	 Zoom ID: 817 8469 6086
08:30-09:00	Onsite Registration
CHAIRPERSON: Prof. Boxiong Yang (杨博雄), Sanya University, China Publicity Chair	
09:00-09:10	OPENING REMARKS Prof. Zhaohui Wang (王兆晖), Hainan University, China Conference General Chair
09:10-09:55	KEYNOTE SPEECH I Prof. Sinno Pan The Chinese University of Hong Kong, China (IEEE Fellow) <i>Speech Title: Bridging Knowledge-Driven and Data-Driven Models</i>
09:55-10:40	KEYNOTE SPEECH II Prof. Huanhuan Chen (陈欢欢) University of Science and Technology of China, China (IEEE Fellow) <i>Speech Title: Causal Learning and its Applications</i>
10:40-11:10	Group Photo & Coffee Break
11:10-11:55	KEYNOTE SPEECH III Prof. Kaizhu Huang (黄开竹) Duke Kunshan University, China <i>Speech Title: Interpreting and Generalizing Visual Classification with Logical Reasoning Regularization</i>
11:55-13:30	Lunch Buffet <西餐厅 Dining Room 1F >
Saturday, August 16, 2025 Onsite Session	
会议室 Meeting Room 10F	
13:30-15:15	Onsite Session 1: Digital Information Systems and Image Analysis Technology <i>Chairperson: Prof. Albert William M, Loyola College, India</i> AC010, AC016, AC024, AC015, AC025, AC1003-A, AC004
15:15-15:30	Coffee Break
15:30-17:35	Onsite Session 2: Innovative Applications of AI Theory and Intelligent Interaction Systems in Emerging Fields <i>Chairperson: Assoc. Prof. Xijun Liang, China University of Petroleum, China</i> <i>Invited Talk: Assoc. Prof. Xijun Liang</i> AC003, AC008-A, AC018, AC023, AC006, AC031, AC005
18:00-20:00	Dinner Buffet <西餐厅 Dining Room 1F >
Saturday, August 16, 2025 Online Session	
Zoom ID: 817 8469 6086	
13:30-15:20	Online Session 1: Digital Image Analysis and Data Computation <i>Chairperson: Assoc. Prof. Jiaxin Cai, Xiamen University of Technology, China</i> <i>Invited Talk: Assoc. Prof. Chuan Luo</i> AC002, AC017, AC1002, AC032, AC035, AC034
15:20-15:30	Break Time
15:30-17:45	Online Session 2: Intelligent Algorithm and Model Design Based on Machine Learning <i>Chairperson: Prof. Filippo Neri, University of Naples "Federico II", Italy</i> AC1006, AC009, AC1007, AC1004, AC033, AC1005, AC037, AC030, AC027

Note: We will take a group photo at the end of each parallel session, please stay in the meeting room until your session is finished.

INTRODUCTION OF KEYNOTE SPEAKER



Prof. Sinno Pan

IEEE Fellow

The Chinese University of Hong Kong, China

Speech Title: Bridging Knowledge-Driven and Data-Driven Models

Abstract: A key research challenge is developing a loop that integrates existing knowledge to enhance data-driven model learning while refining knowledge through the learning process. First-order logic has long been a powerful tool for knowledge-driven models, and deep learning has emerged as the dominant data-driven technique across diverse applications. Consequently, there has been growing interest in combining first-order logic with deep learning models in recent years. In this talk, I will present our work toward a unified framework integrating first-order logic and deep learning, along with its applications to various NLP tasks.

Bio: Prof. Sinno Jialin Pan (Fellow, IEEE) is a Professor of Computer Science and Engineering at the Chinese University of Hong Kong (CUHK) in Hong Kong. Before joining CUHK, he was a Provost's Chair Professor of Computer Science and Engineering at Nanyang Technological University (NTU) in Singapore. He received his Ph.D. in computer science from the Hong Kong University of Science and Technology (HKUST) in 2011. He was a scientist and Lab Head of text analytics with the Data Analytics Department at the Institute for Infocomm Research in Singapore from 2010 to 2014. After that, he joined NTU as a Nanyang Assistant Professor (university named assistant professor) in 2014 and was promoted to Associate Professor and Professor in 2019 and 2022, respectively. He was appointed as a Provost's Chair in Computer Science and Engineering in 2019. He was named "AI 10 to Watch" by the IEEE Intelligent Systems magazine in 2018. He serves as an Associate Editor for IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), Artificial Intelligence (AIJ), and ACM Transactions on Intelligent Systems and Technology (TIST).

INTRODUCTION OF KEYNOTE SPEAKER



Prof. Huanhuan Chen 陈欢欢

IEEE Fellow

University of Science and Technology of China, China

Speech Title: Causal Learning and its Applications

Abstract: In recent years, causal learning has gradually become a research hotspot in artificial intelligence. The talk introduces the content related to causal discovery, causal inference, and decision-making. It will provide an overview of the development progress and the latest technologies in this field. Through application cases in several scenarios, the talk will demonstrate the robustness and interpretability advantages of causal learning.

Bio: Huanhuan Chen (IEEE Fellow), is a professor in School of Computer Science, University of Science & Technology of China (USTC), Hefei, China. He received the B.Sc. degree from USTC, Hefei, China, in 2004, and Ph.D. degree, sponsored by Dorothy Hodgkin Postgraduate Award, in computer science at the University of Birmingham, Birmingham, UK, in 2008. He worked in University of Birmingham and University of Leeds in the UK from 2008 to 2012, respectively. His PhD thesis "Diversity and Regularization in Neural Network Ensembles" has received 2011 IEEE Computational Intelligence Society Outstanding PhD Dissertation award (the only winner) and 2009 CPHC/British Computer Society Distinguished Dissertations Award (the runner up). His work "Probabilistic Classification Vector Machines" on Bayesian machine learning published in IEEE Transactions on Neural Networks, has been awarded as IEEE Transactions on Neural Networks Outstanding 2009 Paper Award (bestowed in 2012, and only one paper in 2009 receive this award). In 2015, Dr. Chen received the International Neural Network Society (INNS) Young Investigator Award in 2015 for his significant contributions in the field of Neural Networks. His research interests include computational intelligence, statistical machine learning, data fusion, neural networks, Bayesian inference and evolutionary computation, etc. In 2015, Dr. Chen received the International Neural Network Society (INNS) Young Investigator Award in 2015 for his significant contributions in the field of Neural Networks. His research interests include computational intelligence, statistical machine learning, data fusion, neural networks, Bayesian inference and evolutionary computation, etc.

INTRODUCTION OF KEYNOTE SPEAKER



Prof. Kaizhu Huang 黄开竹

Duke Kunshan University, China

Speech Title: Interpreting and Generalizing Visual Classification with Logical Reasoning Regularization

Abstract: Machine learning models can excel in classification but may struggle to generalize to unseen data, such as classifying images from unseen domains or discovering novel categories from data. In this talk, we explore the relationship between logical reasoning and deep learning generalization in the context of visual classification. A logical regularization termed L-Reg is derived which bridges a logical analysis framework to image classification. Our work unveils the interpretability brought by L-Reg, as it enables the model to extract the salient features, such as faces to persons, for classification. Theoretical analysis and experiments demonstrate that L-Reg enhances generalization across various scenarios, including multi-domain generalization and generalized category discovery. In complex real-world scenarios where images span unknown classes and unseen domains, L-Reg consistently improves generalization, highlighting its practical efficacy.

Bio: Kaizhu Huang works on trustworthy AI, machine learning, and pattern recognition. He is Tenured Full Professor and Director of Data Science Research Center, at Duke Kunshan University (DKU). Prof. Huang obtained his PhD degree from Chinese University of Hong Kong (CUHK). He worked in Fujitsu Research Centre, CUHK, University of Bristol, National Laboratory of Pattern Recognition, Chinese Academy of Sciences from 2004 to 2012. He was the recipient of the 2011 Asia Pacific Neural Network Society Young Researcher Award. He published more than 250 international conference papers including 130+ SCI indexed journal papers and 60+ CCF-A or IEEE/ACM transactions. He received best (runner-up) paper or book award about 10 times in major AI conferences. In particular, he has recently received the 2024 IEEE ICDM 10 Years High-Impact Paper Award. He acts as Editor-in-Chief of Elsevier CSSI and serves as associated editors/advisory board members in 6 international journals and book series (e.g. Pattern Recognition Journal, and Neural Network Journal). He was invited as keynote/tutorial speaker in more than 50 international conferences or workshops.

INTRODUCTION OF INVITED SPEAKER



Assoc. Prof. Chuan Luo

Sichuan University, China

Speech Title: Scalable Distributed Rough Hypercuboid Approach

Abstract: The popularity of granular computing, to a large extent, is due to the theory of rough sets. As a concrete theory of granular computing, rough set model enables us to tackle incomplete knowledge, manage the inconsistent information, and manipulate different levels of granularity. In that context, much attention has been paid and continues to be given to the rough sets in modeling and propagating uncertainty from both theoretical and applied points of view. The selection of prominent features for building more compact and efficient models is an important data preprocessing task in the field of data mining and machine learning. Rough set offers a powerful information granulation-oriented feature selection framework from data with imprecise, inconsistent and incomplete information. Noting that there is a growing consensus among the data science communities that the proliferation of data volume presents an immediate challenge pertaining to the scalability issue in recent years. As a practical pathway to pursue the challenge of explosive growth of data, parallelization of algorithms by exploiting high performance computing resources in a distributed computing environment have increasingly gained strengths in facilitating large-scale data analysis. In this tutorial, we focus on the scalability aspect of the rough sets-related research. We will introduce our recent attempts for improving the scalability of rough feature selection approach via the parallel and distributed optimization under the premise of ensuring accuracy.

Bio: Dr. Chuan Luo is currently an Associate Professor with the College of Computer Science, Sichuan University, Chengdu, China. He received the Ph.D. degree in Computer Science from Southwest Jiaotong University, Chengdu, China, in 2015. He was a Visiting Ph.D. Student with the University of Regina, Regina, SK, Canada, in 2014. In Feb. 2019, he was a Visiting Scholar with the Harvard University, Cambridge, MA, USA. His current research interests include granular computing, cloud computing, and incremental learning. He won the Natural Science Prize (2nd Grade), awarded by the Ministry of Education of China (2021). He is the recipient of two Best Paper Awards at the 12th International FLINS Conference on Uncertainty Modeling in Knowledge Engineering and Decision Making (FLINS'16), and the 2012 Joint Rough Set Symposium (JRS'12), a Workshop Best Paper Award at the 2019 IEEE Cyber Science and Technology Congress (CyberSciTech'19), and two Best student Paper Awards at the 2015 International Joint Conference on Rough Sets (IJCRS'15), and the Joint Conference of 13th China Conference on Rough Sets and Soft Computing (CRSSC'13).

He has published more than 100 research papers in international conferences and journals, such as the IEEE TKDE, IEEE TPDS, IEEE TNNLS, IEEE TFS, etc. He serves as an Area Editor of International Journal of Computational Intelligence Systems, Editor of Human-Centric Intelligent Systems, CCF Cultural Ambassador, Member of Special Committee of CAAI Granular Computing and Knowledge Discovery. He was included in the 2023 Stanford's list of World's Top 2% Scientists in the latest "single-recent-year-impact" metric. In 2024, he was elected as a backup candidate for academic and technical leaders in Sichuan Province, China.

INTRODUCTION OF INVITED SPEAKER



Assoc. Prof. Xijun Liang

China University of Petroleum, China

Speech Title: Evolutionary Strategy-based Algorithms for Optimizing Deep Neural Networks

Abstract: Deep neural networks have achieved significant breakthroughs in fields like computer vision, driving increasing interest in robust optimization algorithms. While gradient-based optimization methods are known for their fast convergence, they are prone to getting stuck in local optima or saddle points. In contrast, evolutionary algorithms (EAs) evolve populations of solutions over time to explore the global optimum, but they typically require extensive computational resources due to the need for numerous fitness evaluations, especially in high-dimensional optimization tasks. This report introduces a novel optimization approach that combines the advantages of gradient-based algorithms and evolutionary strategies to enhance the training of deep neural networks. By incorporating gradient-directed updates within the evolutionary framework, we propose algorithms with convergence guarantees designed to accelerate training and improve stability. The method is applicable to a wide range of deep network architectures, including convolutional neural networks (CNNs) and generative adversarial networks (GANs). Experimental results show that the proposed algorithms significantly improve training stability, particularly when training data is scarce, and effectively mitigate the mode collapse issue in GANs.

Bio: Xijun Liang is an Associate Professor and Ph.D. Supervisor at the School of Science, China University of Petroleum (East China), Qingdao, and a member of the AAAI SPC. He received his Ph.D. in Operational Research and Cybernetics from Dalian University of Technology, China, in 2013. Since 2014, he has been with China University of Petroleum, where he currently holds a faculty position. His research primarily focuses on optimization algorithms in statistical machine learning and deep learning, with notable achievements in the development of robust machine learning algorithms. Dr. Liang has published over 40 papers in prestigious journals such as IEEE Transactions on Neural Networks and Learning Systems, European Journal of Operational Research, IEEE Transactions on Industrial Informatics, Data Mining and Knowledge Discovery, Engineering Applications of Artificial Intelligence, and BMC Genomics. He has led several key research projects, including three funded by national and provincial agencies, such as the National Natural Science Foundation and the Shandong Province Natural Science Foundation Youth Fund. Additionally, he oversees a subtask of the National Key Research and Development Program focused on the safety operation and maintenance of national pipeline networks.

ONSITE SESSION 1

Saturday, August 16, 2025

13:30-15:15

Meeting Room 10F

Onsite Session 1: Digital Information Systems and Image Analysis Technology

Chairperson: Prof. Albert William M, Loyola College, India

Time	Paper ID	Speech Title & Presenter
13:30-13:45	AC010	MOEA/D with Three-Stage Adaptive Penalty Factor for Radar Jamming Task Scheduling Optimization Minghao Ma , Nanjing University of Science and Technology, China
13:45-14:00	AC016	Attention Mechanisms in Medical Image Analysis: Advance, Challenge, and Future Direction Yang Qi , Xiamen University of Technology, China
14:00-14:15	AC024	Domain-Adversarial HoVer-Net and Machine Learning Decipher Lymphocyte-Fibroblast Crosstalk in Pancreatic Cancer Chenyi Jin , Nanjing University of Science and Technology, China
14:15-14:30	AC015	Efficient Adaptation Techniques and Applications for Medical Foundation Models: A Systematic Review SiYu Liu , Xiamen University of Technology, China
14:30-14:45	AC025	A Three-three Tactics enhanced Besiege and Conquer Algorithm for Complex Optimization Problems Xiangyu Xin , Jilin University of Finance and Economics, China
14:45-15:00	AC1003-A	Classification and Impact Analysis of Fake News using an Integrated Deep Learning Architecture Albert William M , Loyola College, India
15:00-15:15	AC004	A Comparative Study on the Quality of Cybersecurity News Summarization Methods Thanchanok Leartsathienchai , Thammasat University, Thailand

ONSITE SESSION 2

Saturday, August 16, 2025
15:30-17:35

Meeting Room 10F

Onsite Session 2: Innovative Applications of AI Theory and Intelligent Interaction Systems in Emerging Fields

Chairperson: Assoc. Prof. Xijun Liang, China University of Petroleum, China

Time	Paper ID	Speech Title & Presenter
15:30-15:50	Invited Talk	Evolutionary Strategy-based Algorithms for Optimizing Deep Neural Networks Assoc. Prof. Xijun Liang , China University of Petroleum, China
15:50-16:05	AC003	A Momentum-Directed Particle Swarm Intelligence Algorithm for Training Deep Neural Networks Jinmeng Liu , China University of Petroleum (East China), China
16:05-16:20	AC008-A	AI Transformation in higher education Paul D Manuel , Kuwait University, Kuwait
16:20-16:35	AC018	Autoregressive Neural Network Benchmark Analysis of the Gray-Scott Equation Wenfeng Lai , Fuzhou University, China
16:35-16:50	AC023	A Bayesian Optimized ElasticNet and Ridge Regression Approach to Predict Pavement Cost Estimation Subba Rao Pentrala , Pandit Dendayal Energy University, Raisan, Gandhinagar, Gujrat, India
16:50-17:05	AC006	Real Estate Chatbot Assistant: Simplifying Property Guidance for Beginners Chiabwoot Ratanavilisagul , King Mongkut's University of Technology North Bangkok, Thailand
17:05-17:20	AC031	Dynamic Modeling and Feedforward Fuzzy-PID Control Strategy for a 2-RURU/RR Parallel Ankle Rehabilitation Robot Qianchen Pang , Henan University of Science and Technology, Luoyang, China
17:20-17:35	AC005	Phishing Email Detection Using Large Language Models: A Comparative Analysis of Standalone and Retrieval Augmented Generation Models Somkiat Kosolsombat and Tontrakun Chandaeng , Thammasat University, Thailand

ONLINE SESSION 1

Saturday, August 16, 2025 (UTC+8)

13:30-15:20

Zoom ID: 817 8469 6086

Link: <https://us02web.zoom.us/j/81784696086>

Online Session 1: Digital Image Analysis and Data Computation

Chairperson: Assoc. Prof. Jiaxin Cai, Xiamen University of Technology, China

Time	Paper ID	Speech Title & Presenter
13:30-13:50	Invited Talk	Scalable Distributed Rough Hypercuboid Approach Assoc. Prof. Chuan Luo , Sichuan University, China
13:50-14:05	AC002	Low-Dose CT Image Denoising Based on Multi-Scale Feature Fusion and Detail Enhancement Liling Yu , Guangdong Food and Drug Vocational College, China
14:05-14:20	AC017	MT1DCNN: a personalised method for predicting adverse glycaemic events in small samples Yuanju Zheng , Shanghai University, China
14:20-14:35	AC1002	Top-k Loss Based Multi-instance Clustering Xinyu Liao , Guangdong University of Technology, China
14:35-14:50	AC032	Transformer Demonstrate Brain-Like Temporal Integration Capacity Min Dong , Anhui University, China
14:50-15:05	AC035	Brain-inspired Quantitative Evaluation of Emotions in Large-scale Pre-trained Models Based on fMRI Panpan Chen , Information Engineering University, China
15:05-15:20	AC034	Hyperspectral Image Band Selection Based on Community Division Qijun Tang , Anhui University, China

ONLINE SESSION 2

Saturday, August 16, 2025 (UTC+8)

15:30-17:45

Zoom ID: 817 8469 6086

Link: <https://us02web.zoom.us/j/81784696086>

Online Session 2: Intelligent Algorithm and Model Design Based on Machine Learning

Chairperson: Prof. Filippo Neri, University of Naples "Federico II", Italy

Time	Paper ID	Speech Title & Presenter
15:30-15:45	AC1006	Exchange Rate Forecasting Using Graph Neural Networks with Phase Space Reconstruction: A Novel Approach to Capturing Chaotic Dynamics in Currency Markets Nguyen Ngoc Phien , Ton Duc Thang University, Ho Chi Minh City, Vietnam
15:45-16:00	AC009	Portfolio Selection Model Based on Short Sale Basis and Bankruptcy Control Constraints He Feng Cai , Nanjing University of Science and Technology, China
16:00-16:15	AC1007	Lite Transformer with Phase Space Reconstruction for Chaotic Time Series Forecasting: A Novel Approach Integrating Chaos Theory and Efficient Attention Mechanisms Nguyen Ngoc Phien , Ton Duc Thang University, Ho Chi Minh City, Vietnam
16:15-16:30	AC1004	A Multi-objective CMAES algorithm for Combined Heat and Power Environmental Economic Dispatch Gui Xu , Shanghai University, China
16:30-16:45	AC033	Bio-Inspired Micro-RNNs Reveal the Learning Mechanism of Alternation Preference Huijuan Liao , Anhui University, China
16:45-17:00	AC1005	Bayesian Transformer for Time Series Forecasting: Integrating Uncertainty Quantification with Attention Mechanisms for Enhanced Prediction Accuracy Nguyen Ngoc Phien , Ton Duc Thang University, Ho Chi Minh City, Vietnam
17:00-17:15	AC037	Research On Contamination Detection Method Based on Deep Domain Adaptation Kaili Lei , Chinese Flight Test Establishment, China
17:15-17:30	AC030	TenderGraphRAG: An Enhancement Framework for Question Answering Systems Based on a Tendering and Bidding Knowledge Graph Ruoxin Chu , Advanced Institute of Information Technology, Peking University, China
17:30-17:45	AC027	3D Path Planning for AUV Based on Improved Ant Colony Algorithm Jinyan Wang , Ocean University of China, China

NOTE

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