ISKE

The 20th International Conference on Intelligent Systems and Knowledge Engineering

November 21-23, 2025 | Shunde, China

CONFERENCE PROGRAM

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- **Qiming Chen,** Shunde Polytechnic University, China

CONFERENCE VENUE

Shunde Polytechnic University（顺德职业技术大学）

Address: Desheng East Road, Daliang, Shunde, China（广东省佛山市顺德区大良街道德胜东路）

CONFERENCE GUIDELINE

Oral Presentation

- The duration of a normal presentation slot is 15 minutes. Please target your lecture for a duration of about 12 minutes for the presentation plus about 3 minutes for questions from the audience.
- Your punctual arrival and active involvement in each session will be highly appreciated.
- Get your presentation PPT or PDF files prepared and backed up.
- Laptops, projector, screen and laser sticks will be provided by the conference organizer.

Poster Presentation

It's expected that at least one author stands by the poster for (most of the time of) the duration of the poster session. This is essential both to present your work to anyone interested in it and to make sure that your presence is verified by committee.

Security

Please ensure that you take your belongings with you at all times when leaving a room. Do not leave bags or laptops unattended.

Name Badge

For security purposes, delegates, speakers, exhibitors and staff are required to wear their name badge to all sessions and social functions. Entrance into sessions is restricted to registered delegates only. If you misplace your name badge, please request a replacement at the registration counter.

CONFERENCE AGENDA

Time	Event	Venue
14:00-20:00, Nov. 21, 2025	Sign-in & Conference Materials Collection (If you are late for sign-in, you can go to No.10 Teaching Building)	Hotel Lobby, Shunde Fairfield by Marriott

November 22, 2025 - Saturday Venue: No. 6 Lecture Hall		
Time	**Event**	**Host**
09:00-09:30	**Opening Ceremony**	Prof. Yuhong Song
09:30-10:15	**Keynote Speech I** **Title: Optimal Synchronization of Higher-Order Complex Networks** **Prof. Guanrong (Ron) Chen**, City University of Hong Kong, China	Prof. Zhong Li
10:15-11:00	**Keynote Speech II** **Title: Data-Driven Optimization in the Era of Deep Learning and LLMs** **Prof. Yaochu Jin**, Westlake University, China	Prof. Jie Lu
11:00-11:25	Group Photo & Coffee Break	
11:25-11:55	**Title: Automated Theorem Generation** **Prof. Yang Xu**, Southwest Jiaotong University, China	Prof. Tianrui Li
12:00-14:00	Lunch @Taoyuan Canteen	
Technical Sessions **Venue: No. 10 Teaching Building**		
Time	**Event**	**Venue**
14:00-15:20	**TS01: Decision Making under Uncertainty: Emerging Topics and Applications (SS1)**	5-10-201
	TS03: Integrated Intelligence of Sensing and Control (SS2)	5-10-202
	TS05: Energy Conversion and Smart Control (SS3-1)	5-10-203
	TS07: Edge Computing and Intelligent Systems & AI and Knowledge Engineering in Mental Health (SS5 & SS8)	5-10-204
15:20-15:40	Poster Session & Coffee Break	

November 22, 2025 – Saturday Venue: No. 10 Teaching Building		
Time	**Event**	**Venue**
15:40-17:45	**TS02: AI-Guided Human-Machine Interactive Systems and Applications (SS6)**	5-10-201
	TS04: Advances in Spatio-temporal Data Mining: Methods and Applications (SS7)	5-10-202
	TS06: Energy Conversion and Smart Control (SS3-2)	5-10-203
	TS08: Smart Grid and Intelligent Energy Control (SS9-1)	5-10-204
18:00-21:00	**Banquet**	SHUN DE YU CUN

November 23, 2025 – Sunday Venue: No. 10 Teaching Building		
Time	**Event**	**Venue**
09:00-10:30	**TS09: Artificial Intelligent Methodology and System (Track1-1)**	5-10-201
	TS11: Artificial Intelligent Methodology and System (Track 1-3)	5-10-202
	TS13: Practical Applications of AI and Knowledge Engineering (Track 3-1)	5-10-203
	TS15: Smart Grid and Intelligent Energy Control (SS9-2)	5-10-204
10:30-10:50	Poster Session & Coffee Break	
10:50-12:20	**TS10: Artificial Intelligent Methodology and System (Track1-2)**	5-10-201
	TS12: Artificial Intelligent Methodology and System (Track1-4)	5-10-202
	TS14: Practical Applications of AI and Knowledge Engineering (Track 3-2)	5-10-203
	TS16: Knowledge Engineering and Management (Track 2)	5-10-204
12:20-13:30	Lunch @Taoyuan Canteen	
13:30-16:00	**Technical Visit: KUKA Robotics** Assembly Point: 1st Floor Parking Lot of Taoyuan Canteen, Shunde Polytechnic University	

KEYNOTE SPEAKERS

Time 09:30-10:15 **Venue** No. 6 Lecture Hall

Guanrong (Ron) Chen

- **IEEE Life Fellow**
- **City University of Hong Kong, China**

Professor Guanrong (Ron) Chen is an IEEE Life Fellow. He received the MSc degree in Computer Science from Sun Yat-sen University, China in 1981 and the PhD degree in Applied Mathematics from Texas A&M University, USA in 1987. Since year 2000, he has been a Chair Professor and the founding director of the "Center for Complexity and Complex Networks" at City University of Hong Kong.

Professor Chen was awarded the 2011 Euler Gold Medal from Russia, and conferred Honorary Doctor Degrees by the Saint Petersburg State University, Russia in 2011 and by the University of Normandy, France in 2014. He is a Member of the Academy of Europe since 2014 and a Fellow of The World Academy of Sciences since 2015.

Professor Chen's research interests are in the fields of complex networks, nonlinear dynamics and control systems. He has been a Highly Cited Researcher in the past decade.

Optimal Synchronization of Higher-Order Complex Networks

Abstract: First, some preliminaries and the synchronization problem of complex networks are reviewed. Then, optimal network synchronization criteria are presented. Further, the totally homogeneous network and its synchronization optimality are described. Finally, the concept of high-order topology of complex networks is introduced and its high-order criterion for optimal synchronization is described and discussed.

Time 10:15-11:00 **Venue** No. 6 Lecture Hall

Yaochu Jin

- **IEEE Fellow**
- **Westlake University, China**

Yaochu Jin received the BSc, MSc and PhD degrees from the Electrical Engineering Department, Zhejiang University, Hangzhou, China in 1988, 1991 and 1996, respectively. He received the Dr.-Ing. from the Institute of Neuroinformatics, Ruhr University Bochum, Germany in 2001.

He is presently Chair Professor of AI with the Trustworthy and General AI Lab, Chair of the Artificial Intelligence Department, School of Engineering, Westlake University, Hangzhou, China. Prior to that, he was "Alexander von Humboldt Professor for Artificial Intelligence" endowed by the German Federal Ministry of Education and Research, with the Faculty of Technology, Bielefeld University, Germany from 2021 to 2023, and Surrey Distinguished Chair, Professor in Computational Intelligence, Department of Computer Science, University of Surrey, Guildford, U.K. from 2010 to 2021. He was also "Finland Distinguished Professor" with University of Jyväskylä, Finland, and "Changjiang Distinguished Visiting Professor" with the Northeastern University, China from 2015 to 2017. His main research interests include AI theory, algorithms and applications to a wide range of scientific, technological and industrial problems. Prof. Jin is presently the President of the IEEE Computational Intelligence Society and the Editor-in-Chief of Complex & Intelligent Systems. He is the recipient of the 2025 IEEE Frank Rosenblatt Award. He was named "Highly Cited Researcher" by Clarivate from 2019 consecutively. He is a Member of Academia Europaea and Fellow of IEEE.

Data-Driven Optimization in the Era of Deep Learning and LLMs

Abstract: This talk starts with a brief introduction to data-driven optimization, including motivations, basic ideas and main challenges. It then discusses two paradigm shifts in the era of deep learning and large language models: from small surrogate-assisted optimization to end-to-end optimization, and from numerical data driven optimization to multi-modal data driven optimization. Progresses in the above research lines are presented and remaining challenges are outlined.

Time 11:25-11:55 **Venue** No. 6 Lecture Hall

Yang Xu

- **Professor of Mathematics**
- **Southwest Jiaotong University, China**

Prof. Yang Xu is a Professor of Mathematics with the School of Mathematics, Southwest Jiaotong University. Prof. Xu is a National Middle-Aged and Young Expert with Outstanding Contributions, Model Worker in the National Education System, Recipient of the "People's Teacher Medal", and Academic and Technical Leader of Sichuan Province. Within his broad interests in logical reasoning, Prof. Xu has research interests and expertise in automated theorem proving, automated theorem generation, and their applications to software or hardware system verification. He and the team have developed an original automated deduction system for logical deduction and an original automated theorem generator that reach the international advanced level. Based on this system, practical tools for automatic verification of system credibility have been developed. These tools have been applied in fields such as information security, aerospace, national defense and military industry, rail transit, and information electronics, playing an irreplaceable and crucial role in ensuring the credible operation of the relevant systems. His research has been supported by a number of funding bodies, such as the National Natural Science Foundation of China, Ministry of Science and Technology, and industries. He has co-authored over 900 research papers.

Automated Theorem Generation

Abstract: This talk introduces Δ1, a novel automated theorem generator for propositional and first-order logic that operates without a traditional built-in theorem prover. Unlike conventional approaches that focus on proving the validity of existing statements, Δ1 innovates by creating new, provably correct theorems based on the full triangular standard contradiction, a unique principle and structure ensuring that all generated theorems are inherently sound, eliminating the need for time-consuming re-verification by theorem provers or manual checking. The value of this system is twofold: its guaranteed correctness and its prolific generation capacity. By ensuring the premises are satisfiable, Δ1 produces theorems that are not only true but also logically meaningful. This is a significant leap beyond typical systems that may generate trivial or uninteresting tautologies. The system's efficiency is demonstrated by its ability to generate a vast number of unique theorems. For n distinct literals in propositional logic or n predicates satisfying specific conditions in first-order logic, Δ1 can automatically produce n! mutually non-equivalent theorems. This exponential growth in output offers a powerful tool for discovering new logical relationships. This approach aligns with the cutting edge of AI, particularly in areas like automated knowledge discovery and explainable AI (XAI). By generating theorems from a foundational, verifiable structure, Δ1 provides a clear and transparent pathway to its conclusions, offering insights into the reasoning process itself. Furthermore, these logical theorems can be interpreted across diverse fields, from natural sciences to social sciences, positions it as a foundational technology for automating scientific discovery and extending the boundaries of computational reasoning. The system's unique architecture represents a paradigm shift from a reactive "prover" to a proactive "creator" of logical knowledge.

TECHNICAL SESSIONS

TS01: Decision Making under Uncertainty: Emerging Topics and Applications (SS1)

Time	14:00-15:20, November 22, 2025	Venue	5-10-201, No. 10 Teaching Building
Session Chairs	Luis Martínez López, University of Jaén, Spain Liyang Wang, Shunde Polytechnic University, China		

Invited Speaker

14:00-14:20

Yi Zhang

University of Technology Sydney, Australia

Bio: Dr Yi Zhang is an Associate Professor at the Australian Artificial Intelligence Institute (AAII) and the School of Computer Science in the Faculty of Engineering and Information Technology, University of Technology Sydney (UTS), Australia. He obtained a dual-PhD degree in Management Science & Engineering (from Beijing Institute of Technology, China, 2016) and Software Engineering (UTS, 2017). He was a visiting scholar at the School of Public Policy, Georgia Institute of Technology (2011-2012) and the School of Mathematics and Statistics, University of Melbourne (2022-2023).

He was the awardee of the 2019 Discovery Early Career Researcher Award (DECRA) granted by the Australian Research Council (ARC) and the 2023 Research Award from The Australian, recognised as the Research Field Leader in Australia's Library and Information Science discipline.

He has published over 120 high-quality research articles, aligning with his cross-disciplinary interests in artificial intelligence for science, technology, and innovation studies (AI for ST&I). He is an Executive Editor for Technological Forecasting & Social Change, a Specialty Chief Editor for Frontiers in Research Metrics and Analytics, and an Associate Editor for IEEE Transactions on Engineering Management and Scientometrics.

Artificial Intelligence for Science, Technology, & Innovation

Abstract: Artificial intelligence (AI) has been revolutionising the thinking behaviours and paradigms of the human society, while its Pandora's Box brings unpredictable challenges and risks to governance and regulation. Down to the broad realm of science, technology, and innovation (ST&I) studies, it has been rising interests to leverage AI's advancements to enhance analytical capabilities in proposing comprehensive measurements, discovering complicated relationships, and predicting future dynamics. In this talk, I will discuss the current interactions between ST&I challenges and AI-empowered solutions, with a particular focus on understanding technological change through large-scale literature analysis, which includes approaches such as streaming data analytics, heterogeneous graph mining, graph learning techniques, and large language models.

Oral Presentations	
14:20-14:35	6945: Computing the Connected Strength Between Two Vertices in a Fuzzy Graph Author(s): Yancai Zhao Presenter: **Yancai Zhao, Wuxi City College of Vocational Technology, China**
14:35-14:50	3433: Utilizing the PIS-Based T1-ELICIT-OWA Operator for Linguistic Group Decision-Making with ELICIT Information Author(s): Wen He, Zelin Wang, Wei Liang, Rosa Ma Rodriguez, Luis Martínez Presenter: **Wen He, Hunan Institute of Science and Technology, China**
14:50-15:05	1501: A Classification Model Based on Belief Rule Extraction of Linguistic Concept Lattice Author(s): Liwei Sha, Mingyang Shao, Xingyu Liu, Jianzhong Huang, Lixian Xu, Li Zou Presenter: **Liwei Sha, Shandong Jianzhu University, China**
15:05-15:20	1496: The Benefits of Kaizen Teams and 4IR Implementations for the Plastic Manufacturing Industry Author(s): Judith Nkuna, Andre Vermeulen, Jan-Harm C. Pretorius Presenter: **Judith Nkuna, University of Johannesburg, South Africa**

TECHNICAL SESSIONS

TS02: AI-Guided Human-Machine Interactive Systems and Applications (SS6)

Time	15:40-17:45, November 22, 2025	Venue	5-10-201, No. 10 Teaching Building
Session Chairs	Xianyi Zeng, University of Lille, France Liyang Wang, Shunde Polytechnic University, China		

Invited Speaker

15:40-16:00

Hang Yu

Shanghai University, China

Bio: Hang Yu is a currently a Full Professor with the School of Computer Engineering and Science Shanghai University, where he is the Associate Director of the Institute of Urban Renewal and Sustainable Development of Shanghai. His research interests include large models, graph machine learning, and generative intelligence. He has published more than 100 papers, including in high-profile journals such as IEEE-TKDE, IEEE-TIFS, IEEE-TNNLS, IEEE-TCYB, IEEE-TFS and leading conferences recommended by the China Computer Federation (CCF) such as ACL, AAAI, CVPR, ACMMM and WWW. He has won more than 10 research grants such as Young Scientists Fund of National Natural Science Foundation of China (NSFC) and Shanghai Science and Technology Committee (SSTC) in the last 5 years. He serves as Senior Associate Editor for Knowledge-Based Systems (Elsevier) and has served as a guest editor of 4 special issues for IEEE transactions and other international journals.

Multi-Scenario Applications of Graph Learning: Research on Knowledge Graphs and Fraud Detection

Abstract: This report centers on graph learning technologies and systematically explores their application mechanisms in two major scenarios: knowledge graphs and fraud detection. Although knowledge graphs and fraud detection have different task objectives, both are based on graph-structured data, for which graph learning provides efficient modeling and analytical approaches. In the domain of knowledge graphs, the focus is on tasks such as graph completion, link prediction, and knowledge question answering. The report deeply analyzes the capability of graph learning models to extract topological features of entities and relationships, elucidating how these models exploit graph structural patterns to achieve key functions, including missing knowledge completion, entity association prediction, and semantic question answering and reasoning. For the fraud detection scenario, the report mainly analyzes application strategies of graph learning to address three core challenges: (1) overcoming the bottleneck of insufficient labeled data through semi-supervised learning methods, (2) enabling real-time updates of fraud patterns via dynamic graph learning mechanisms, and (3) achieving collaborative detection under privacy protection using federated graph learning frameworks.

Oral Presentations	
16:00-16:15	0308: Co-Creating the Future of Fashion: AI-Driven Responsive Design in Concert With Human-Centered Collaboration Author(s): Yunxiang Ge, Zhebin Xue Presenter: **Yunxiang Ge, Soochow University, China**
16:15-16:30	5955: LDBRec: A DistilBERT-Based Recommendation Model for Sparse Use-Item Interactions Author(s): Weiqing Xia, Lanxin Wu Presenter: **Weiqing Xia, Xihua University, China**
16:30-16:45	4801: A Review on AI-Supported User-Product Interactions Towards Creation of a Fashion Design Metaverse Ecosystem Author(s): Xianyi Zeng Presenter: **Xianyi Zeng, ENSAIT - University of Lille, France**
16:45-17:00	6528: Predicting Greenhouse Gas Emissions in Papermaking Wastewater Treatment Process Author(s): Zhenglei He, Shizhong Li, Yi Man Presenter: **Zhenglei He, Guangdong University of Technology, China**
17:00-17:15	1572: An EBRB-Based Model for Predicting University Students' Graduation Destination Author(s): Lixian Xu, Zhiyun Yu, Jun Liu, Aftab Ali, Li Zou, Dehu Yu Presenter: **Li Zou, Shandong Jianzhu University, China**
17:15-17:30	2013: PSA-Based Parameter Optimal Assisted-as-Needed Control for an Upper Limb Exoskeleton Author(s): Shuting Zhang, Haoping Wang, Yang Tian Presenter: **Haoping Wang, Nanjing University of Science and Technology, China**
17:30-17:45	1591: Towards Efficient SMPL Body Shape Manipulation via Large Language Models Author(s): Ruolin Wang, Ruhan He, Wen Yang, Di Sha, Cheng Chi, Kaixuan Liu, Kim Phuc Tran, Xianyi Zeng Presenter: **Xianyi Zeng, ENSAIT, GEMTEX, University of Lille, France**

TECHNICAL SESSIONS

TS03: Integrated Intelligence of Sensing and Control (SS2)

Time	14:00-15:15, November 22, 2025	Venue	5-10-202, No. 10 Teaching Building
Session Chair	Zheng Hu, Shunde Polytechnic University, China		

Oral Presentations	
14:00-14:15	9291: From Steam to Sentience: Tracing the Evolution from the First Industrial Revolution to the Rise of Artificial Intelligence in the Fourth Industrial Era Author(s): Judith Nkuna, Jan-Harm C. Pretorius Presenter: **Judith Nkuna, University of Johannesburg, South Africa**
14:15-14:30	9231: Multi-Preschooler Interactive Ciliary Muscle Training and Evaluation System Author(s): Zhipeng Yu, Yuhong Song, Xianrong Fan, Qiyuan Fan Presenter: **Zhipeng Yu, Shunde Polytechnic University, China**
14:30-14:45	8951: Fuzzy Quantized Adaptive Boundary Control for Synchronization of Fractional-Order Multilayer Spatiotemporal Networks with Uncertain Couplings Author(s): Qiu Peng, Manchun Tan Presenter: **Qiu Peng, Jinan University, China**
14:45-15:00	4314: Chaos-Enhanced Deep Learning for Industrial Robot RV Gearbox Early Fault Detection Author(s): Junying Niu, Zefan Cai Presenter: **Junying Niu, Shunde Polytechnic University, China**
15:00-15:15	3603: Fabrication of Micro Pits by Uniformity Treatment of SU-8 Photoresist After Postbaking Author(s): Lihua Guo and Jie Shan Presenter: **Lihua Guo, Shunde Polytechnic University, China**

TECHNICAL SESSIONS

TS04: Advances in Spatio-temporal Data Mining: Methods and Applications (SS7)

Time	15:40-17:30, November 22, 2025	Venue	5-10-202, No. 10 Teaching Building
Session Chairs	Bin Wang, Ocean University of China, China Zheng Hu, Shunde Polytechnic University, China		

Invited Speaker

15:40-16:00

Yanwei Yu

Ocean University of China, China

Bio: Yanwei Yu is a professor in the Faculty of Information Science and Engineering of Ocean University of China. He received the B.S. degree from Liaocheng University, China, in 2008 and the Ph.D. degree from University of Science and Technology Beijing, China, in 2014, respectively. From 2012 to 2013, he was a visiting Ph.D. student at the Department of Computer Science of Worcester Polytechnic Institute. From 2016 to 2018, he was a postdoc researcher at the College of Information Sciences and Technology of Pennsylvania State University. His research interests include data mining, machine learning, and database systems. He published more than 100 papers in TODS, TKDE, TOIS, TKDD, TBD, KDD, WWW, AAAI, IJCAI, ICDE, CIKM, DASFAA, and other top journals and conferences. His research is funded by the National Natural Science Foundation of China, the National Science and Technology Major Project, the Natural Science Foundation of Shandong Province, and the Shandong Provincial Key R&D Program.

Trajectory-User Linking and User Identity Linkage based on Human Mobility Data

Abstract: With the widespread emergence of applications such as location-based social networks and location-based services, the collection of human mobility data has become increasingly convenient. Mining and analyzing such mobility data benefit various applications including recommendation systems, targeted advertising, and behavioral analysis. Trajectory-user linking refers to the task of associating an anonymous trajectory with the user most likely to have generated it. User identity linkage primarily involves identifying mobility trajectories generated by the same user across different social network platforms from mobility data originating from multiple sources. These two tasks significantly enhance the value of human mobility data in various commercial applications and management contexts through improved mining and analysis. This report will present our latest research advances in these two tasks, including trajectory-user linking based on sparse mobility check-in data, deep learning models for large-scale trajectory-user linking, and cross-platform user identity linkage using heterogeneous mobility data. Potential future research directions will also be discussed.

Oral Presentations	
16:00-16:15	5086: Beyond ID Embeddings: Attribute-Aware Pretraining for Cold-Start User Representation Author(s): Haochen Sun, Ruiping Yin, Kangsheng Zhou, Kai Wu, Yingjian Liu Presenter: **Haochen Sun, Beijing University of Technology, China**
16:15-16:30	1895: Clustering Analysis of Aircraft Arrival and Departure Trajectories in Airport Terminal Areas Based on Autoencoders Author(s): Liang Liu, Yanlei Wang, Zexin Wu, Wenbo Wang, Nanqiao Lin, Yuntao Chen, Yuanqi Gao, Feng Hong Presenter: **Yuanqi Gao, Ocean University of China, China**
16:30-16:45	5701: FlightCast: A Machine Learning Framework for Real-Time Air Traffic Flow Prediction Author(s): Dechuan Ma, Jiangtao Zhao, Anqi Liu, Guiyuan Jiang, Peilan He, Bin Wang, Feng Hong Presenter: **Bin Wang, Ocean University of China, China**
16:45-17:00	8391: Complexity of Iterative Elections Under Control Author(s): Dongxu Li, Zengyang Li, Chunguang Lan, Aizhong Zhou Presenter: **Aizhong Zhou, Ocean University of China, China**
17:00-17:15	5528: Adaptive Diffusion Learning for Non-Stationary Data Streams with Concept Drift Author(s): Kun Wang, Hang Yu Presenter: **Kun Wang, Shanghai University, China**
17:15-17:30	9879: Fourier-PatchTST: Time-Frequency Enhanced Transformer for Long-Term Time Series Forecasting Author(s): Xiaoqun Wei, Mengjia Wu, Guangquan Zhang, Jie Lu, Yi Zhang Presenter: **Xiaoqun Wei, University of Technology Sydney, Australia**

TECHNICAL SESSIONS

TS05: Energy Conversion and Smart Control (SS3-1)

Time	14:00-15:20, November 22, 2025	Venue	5-10-203, No. 10 Teaching Building
Session Chairs	Guidong Zhang, Guangdong University of Technology, China Junying Niu, Shunde Polytechnic University, China		

Invited Speaker

14:00-14:20

Junyu Xuan

Senior Lecturer, University of Technology Sydney, Australia

Bio: Dr Junyu Xuan is an IEEE/ACM Senior Member, ISBA/BNP Life Member, ARC Discovery Early Career Researcher Award (DECRA) Fellow, and Senior Lecturer of Australia Artificial Intelligence Institute in the Faculty of Engineering and IT at the University of Technology Sydney (UTS). His research interests include Probabilistic Machine Learning, Bayesian Nonparametric Learning, Bayesian Deep Learning, Reinforcement Learning, Text Mining, Graph Neural Networks, etc. He has published over 60 papers in high-quality journals and conferences, including Artificial Intelligence Journal, Machine Learning Journal, IEEE TNNLS, IEEE TKDE, ACM Computing Surveys, ICDM, NIPS, AAAI, etc. He served as PC or Senior PC member for conferences, e.g. NIPS, ICML, UAI, ICLR, AABI, IJCAI, AAAI, EMNLP, etc.

Functional Bayesian Deep Learning: Beyond Function Approximation to Function Distribution Approximation

Abstract: Bayesian deep learning (BDL) is an emerging field that combines the strong function approximation power of deep learning with the uncertainty modelling capabilities of Bayesian inference. This synergy is poised to enhance model generalization and robustness, offering valuable uncertainty estimations for a range of safety-critical applications, including medical diagnostics, diabetes detection, autonomous driving, and civil aviation. Despite these advantages, the fusion introduces complexities to classical posterior inference in parameter space, such as nonmeaningful priors, intricate posteriors, and possible pathologies. This talk will delve into the driving forces, concepts, and methodologies underpinning BDL in function space, segueing into pivotal technological breakthroughs and their applications in machine learning tasks. To conclude, we will explore the prevailing hurdle faced by BDL.

Oral Presentations	
14:20-14:35	7039: Dynamic Magnetic Control of Coupled Inductors for Chip-Scale Multiphase Regulators Author(s): Jianle Chen, Yaopei Liang, Guidong Zhang, Zhong Li Presenter: **Yaopei Liang, Guangdong University of Technology, China**
14:35-14:50	6415: Applicable to Event-Triggered Sliding Mode Control for G2V and V2G Bidirectional Charging Piles Author(s): Xiaoming Lin, Jianlin Tang, Bin Qian, Yong Xiao, Fan Zhang, Xiangyong Feng Presenter: **Jianlin Tang, Electric Power Research Institute of CSG, China**
14:50-15:05	7120: Electric Vehicle Charging Optimization Strategy Based on Photovoltaic Power Generation Prediction Author(s): Xiaoming Lin, Bin Qian, Yong Xiao, Jianlin Tang Presenter: **Xiaoming Lin, Electric Power Research Institute of CSG, China**
15:05-15:20	2633: Wireless Energy and Information Synchronization Transmission Technology Based on Harmonic Communication for Wireless Power Transfer Author(s): Shengyu Liu, Qi Xie, Qing Wang, Yongcai Wu, Wenxun Xiao, Bo Zhang Presenter: **Yongcai Wu, South China University of Technology, China**

TECHNICAL SESSIONS

TS06: Energy Conversion and Smart Control (SS3-2)

Time	15:40-17:45, November 22, 2025	Venue	5-10-203, No. 10 Teaching Building
Session Chairs	Guidong Zhang, Guangdong University of Technology, China Junying Niu, Shunde Polytechnic University, China		

Invited Speaker

15:40-16:00

Phayung Meesad

Director of Central Library

King Mongkut's University of Technology North Bangkok, Thailand

Bio: Dr. Phayung Meesad is an Associate Professor in the Faculty of Information Technology and Digital Innovation at King Mongkut's University of Technology North Bangkok (KMUTNB), where he also serves as Director of the Central Digital Library. Formerly, he was Dean of the Faculty of Information Technology and Digital Innovation, contributing significantly to academic leadership and institutional digital transformation. He has a B.Sc. in Technical Education (Electrical Engineering) from KMUTNB (1994), and both M.S. and Ph.D. degrees in Electrical Engineering from the School of Electrical and Computer Engineering, Oklahoma State University, USA, awarded in 1998 and 2002, respectively. Dr. Meesad's research interests span a broad range of areas, including Artificial Intelligence (AI), Computational Intelligence, Machine Learning, Deep Learning, Data Science, Big Data Analytics, Time Series Forecasting, Natural Language Processing (NLP), Digital Signal and Image Processing, Business Intelligence, and Cloud and Parallel Computing. He is a prolific contributor to scholarly research, having published numerous peer-reviewed journal articles, conference proceedings, and academic books in AI and data-driven systems.

Data-Driven Library Management: Harnessing Analytics to Empower Communities

Abstract: Libraries are sitting on hidden data capabilities that are mainly underused, which could help unleash new knowledge in engineering and service delivery tricks. The talk focuses on the provider's view of library innovation with data as a core, where user behavior logs, feedback streams, and semantic metadata are changed to easily applicable insights using machine learning and predictive analytics. The presentation of a dataset from KMUTNB's Smart Digital Library will show not only that but also the skills of the latest analytics techniques, including user segmentation, intent prediction, and feedback-informed content curation, which in turn give evidence-based decision-making and tailored services. The conference will introduce a framework for a modular analytics-enabled library platform, which covers ontology-based reasoning, recommender systems, and real-time dashboards. Being ethical while taking care of the data and using a privacy-preserving type of analytics are the foundations of this transformation.

Oral Presentations	
16:00-16:15	1965: Addressing the Inconsistency in Bayesian Deep Learning via Generalized Laplace Approximation Author(s): Yinsong Chen, Samson S. Yu, Zhong Li, Chee Peng Lim Presenter: **Yinsong Chen, Deakin University, Australia**
16:15-16:30	6273: State of Health Estimation of Lithium-Ion Batteries Using Constant Voltage Charging Profiles and Hybrid Feature Weighting Author(s): Ruiling Jiang, Hongqiang Mo, Lianfang Tian, Hongyuan Yuan, Zhong Li Presenter: **Ruiling Jiang, South China University of Technology, China**
16:30-16:45	2847: Research on Adaptive Signal Gain Technology for Distribution Automation Terminal Under Weak Signal Scenario Author(s): Jiabo Xie, Jianbin Li, Jialin Wang, Yuexuan Hu, Jiadong Zeng Presenter: **Xie Jiabo, Zhongshan Power Supply Bureau Banfu Power Supply Subdivision of Guangdong Power Grid Co., Ltd., China**
16:45-17:00	8798: A Controller of LCL Grid-Connected Inverter with Only Inverter-Side Feedback Based on High Order Fully-Actuated Approach Author(s): Letian Lin, Yanwei Jiang, Xujian Shu, Jingjing Yang Presenter: **Letian Lin, Fuzhou University, China**
17:00-17:15	8714: Three-Phase Parity-Time Symmetry WPT System with Asymmetrical Parameters Author(s): Weiwei Chen, Dan Tu, Bo Wen Sirui Wang, Xutao Jiang, Dongyuan Qiu, Bo Zhang, Fan Xie Presenter: **Bo Zhang, South China University of Technology, China**
17:15-17:30	6529: A New Control Strategy for Photovoltaic and Energy Storage Distributed Energy Systems Based on Data Mining Author(s): Hongtao Su, Peibin Lin, Yiyang Li Presenter: **Hongtao Su, Guangdong University of Technology, China**
17:30-17:45	5604: Linear Support Vector Classification for Paraphrase Applications Author(s): Nguyen Minh Tuan, Phayung Meesad, Nguyen Tran Thai Hien Presenter: **Phayung Meesad, KMUTNB, Thailand**

TECHNICAL SESSIONS

TS07: Edge Computing and Intelligent Systems & AI and Knowledge Engineering in Mental Health (SS5 & SS8)

Time	**14:00-15:20, November 22, 2025**	**Venue**	**5-10-204, No. 10 Teaching Building**
Session Chair	**Zhipeng Yu, Shunde Polytechnic University, China**		

Invited Speaker

14:00-14:20

Wolfgang A. Halang

FernUniversität in Hagen, Germany

Bio: Professor Wolfgang A. Halang is a Chair Professor of Information Technology at FernUniversität in Hagen, Germany. He received his Ph.D. in Mathematics from Ruhr University Bochum and completed a second doctoral dissertation at the University of Dortmund. In the early years of his career, he worked at Bayer AG, where he was engaged in research and development on process control and real-time systems. Subsequently, he became Professor of Applied Informatics at the University of Groningen in the Netherlands.

Since 1992, he has been teaching at FernUniversität in Hagen, focusing his research on information technology, real-time systems, and safety-critical systems. He served as Editor-in-Chief of the journal Real-Time Systems and has authored several academic monographs and textbooks. His influential publications, including Sicherheitsgerichtete Echtzeitsysteme (Springer), have had a significant impact in both academia and industry. Over the years, he has also supervised numerous doctoral students and made substantial contributions to the advancement of computer architecture and control systems.

Are Neural Networks Apt Tools for Artificial Intelligence?

Abstract: Local interpolation reproduces data by design, with total variation matching the data exactly; NNs can underfit when parameters are fewer than points. Yet NNs dominate inductive learning: they generalize via implicit bias, exploit massive parallelism, and compose features hierarchically. Interpolation's nearest-neighbor search is costly; recent results show good performance with methods. Challenges include numerical precision, algorithmic maturity, library overhead, activation complexity, and CPU–GPU transfer. Future work should combine local interpolation's efficiency with NNs' expressiveness.

Oral Presentations	
14:20-14:35	4830: Sensor Network Design for Monitoring Motor Activity and Emotional States Author(s): Victoria Lopez, Pavél Llamocca, Jesús Sánchez-Allende, Carlos Cotelo Presenter: **Pavél Llamocca, CUNEF Universidad, Spain**
14:35-14:50	6441: An Enhanced Robust Principal Component Analysis Method with Application to Image Reconstruction Author(s): Feng Feng, Lei Zhao Presenter: **Lei Zhao, Xi'an University of Posts and Telecommunications, China**
14:50-15:05	4398: The Supply-Driven Knowledge Organization Paradigm: Research on Operational Optimization for Semantic Generation and Understanding of Large-Scale Telecommunication Models Author(s): Wenbin Xiao, Yajuan Chen, Yixiao Huang, Yin Ye, Zhiyang Chen Presenter: **Wenbin Xiao, China Mobile Group Guangdong Co., Ltd., China**
15:05-15:20	5024: Identifying Risk of Depression and Mania Through Clustering of Wearable Sensor Data Author(s): Pavél Llamocca, Victoria Lopez Presenter: **Pavél Llamocca, CUNEF Universidad, Spain**

TECHNICAL SESSIONS

TS08: Smart Grid and Intelligent Energy Control (SS9-1)

Time	15:40-17:30, November 22, 2025	Venue	5-10-204, No. 10 Teaching Building
Session Chair	Zhipeng Yu, Shunde Polytechnic University, China		

Invited Speaker

15:40-16:00

Herwig Unger

Head of the Department of Communication Networks

FernUniversität in Hagen, Germany

Bio: Prof. Dr.-Ing. habil. Dr. h.c. Herwig Unger (*1966) received his PhD with a work on Petri Net transformation in 1994 from the Technical University of Ilmenau and his doctorate (habilitation) with a work on a fully decentralised web operating systems from the University of Rostock in 2000. Since 2006, he is a full professor at the FernUniversität in Hagen and the head of the Department of Communication Networks. In 2019, he obtained honorary PhD in Information Technology from the King Mongkut's University of Technology in North Bangkok (Thailand). His research interests are in decentralised systems and self-organization, natural language processing, Big Data as well as large scale simulations. He has published more than 150 publications in refereed journals and conferences, published or edited more than 30 books and gave over 35 invited talks and lectures in 12 countries. Beside various industrial cooperations, e.g. with Airbus Industries, he has been a guest researcher/professor at the ICSI Berkeley, University of Leipzig, Universitè de Montreal (Canada), Universidad de Guadalajara (Mexico) and the King Mongkut's University of Technology North Bangkok.

A Brain Inspired Approach to Sequence Learning for Natural Language Processing

Abstract: This talk bridges insights from neuroscience and machine learning to explore how the brain's predictive architecture can inspire next-generation models for sequence processing. Beginning with a concise overview of basic neuroscience research, we highlight evidence that the human brain functions as a prediction machine, continuously anticipating sequential patterns in sensory input. This framework motivates a paradigm shift in computational approaches to language, moving beyond static representations to dynamic, prediction-driven models.

Central to this discussion are the theories of Jeff Hawkins, whose work posits that intelligence arises from the brain's ability to learn and predict sequences through cortical hierarchies. We demonstrate how these principles translate to natural language processing (NLP), enabling the construction of words from syllables and sentences from reusable "semantic units" via hierarchical, context-sensitive prediction.

Building on these ideas, the final part of the talk introduces the GraphLearner, a novel model designed to efficiently learn and predict complex sequences with long-range dependencies. Unlike traditional Markovian

approaches, the GraphLearner leverages dynamic graph structures and is also able to model hierarchical relationships and parallel processing pathways. The talk concludes with implications for NLP, cognitive modeling, and the future of biologically inspired AI.

Oral Presentations	
16:00-16:15	0152: Enhanced Neural Network-Based Explicit MPC via a Hybrid PSO-LM Training Strategy for High-Gain DC-DC Converters Author(s): Zelong Liu, Wenjie Ma, Guidong Zhang, Zhong Li Presenter: **Zelong Liu, Guangdong University of Technology, China**
16:15-16:30	0595: Repetitive Controller for Grid-Connected Converter—A Systematic Design Approach Based on Regeneration Spectrum Theory Author(s): Jun Zhang, Jiajun Wei, Qing Chen Presenter: **Jun Zhang, State Grid Zhenjiang Power Supply Company, China**
16:30-16:45	6940: Research on Electric Pole Geometric Feature Anomaly Prediction Technology Based on EPGFAPnet Author(s): Leilei Xu, Luo Zhang, Jianzhao Qu, Cheng Zhang, Jiawei Zhong, Yu Luo Presenter: **Leilei Xu, Zhongshan Power Supply Bureau of Guangdong Power Grid Co., Ltd., China**
16:45-17:00	0199: A Method for Detecting Ice Thickness on Distribution Lines Based on Multispectral Fusion Author(s): Zongtao Qin, Xiong Zhou, Bo Feng, Bin Feng, Shan Li Presenter: **Zongtao Qin, Guangxi Power Grid Co., Ltd. Guilin Power Supply Bureau, China**
17:00-17:15	7299: CDA-YOLO: An Improved YOLOv11-Based Model for Efficient Power Pole Detection Author(s): Jianzhao Qu, Luo Zhang, Leilei Xu, Cheng Zhang, Jiawei Zhong, Yu Luo Presenter: **Jianzhao Qu, Zhongshan Power Supply Bureau of Guangdong Power Grid Co., Ltd., China**
17:15-17:30	7037: Improved Virtual Synchronous Control Method and Stability Enhancement Research for Construction Power Networks Author(s): Yichang Qiu, Cheng Zhang, Chaowen Xie, Shen Luo, Fei Meng, Chuan Lin Presenter: **Yichang Qiu, Zhongshan Power Supply Bureau of Guangdong Power Grid Co., Ltd., China**

TECHNICAL SESSIONS

TS09: Artificial Intelligent Methodology and System (Track1-1)

Time	09:00-10:30, November 23, 2025	Venue	5-10-201, No. 10 Teaching Building
Session Chair	Qiyuan Fan, Shunde Polytechnic University, China		

Oral Presentations	
09:00-09:15	6196: Binary Complete Decision Tables With Many-Valued Decisions From Closed Classes Author(s): Azimkhon Ostonov, Mikhail Moshkov Presenter: **Azimkhon Ostonov, King Abdullah University of Science and Technology, Saudi Arabia, Saudi Arabia**
09:15-09:30	6631: An Enhanced Fuzzy Ensemble Clustering Method for High-Dimensional Data Author(s): Linbiao Yu, Zhengxun Guo, Jie Wang, Zekang Bian, Qun Gao, Shitong Wang Presenter: **Zekang Bian, Jiangnan University, China**
09:30-09:45	2125: Lemma-Enhanced Parallel Automated Theorem Proving Author(s): Jierui Bao, Jian Zhong, Peiyao Liu, Yang Xu Presenter: **Jierui Bao, Xihua University, China**
09:45-10:00	1566: EH-XGB: A Novel Enhanced Hybrid Extreme Gradient Boosting for Annotation Data Author(s): Chengjiang Wen, Yang Yue Presenter: **Chengjiang Wen, Intelligence China Mobile Communications Group Device Co., Ltd., China**
10:00-10:15	3490: Multi-View Orientational Quaternion Network for Semi-Supervised Medical Image Segmentation Author(s): Yan Liu, Yan Yang, Yongquan Jiang, Zhuyang Xie Presenter: **Yan Liu, Southwest Jiaotong University, China**
10:15-10:30	5798: Artificial Intelligence Technologies in Enhancing Operational Processes in a South African Water Treatment Organization Author(s): Nhlamulo Nkuna, Khathutshelo Mushavhanamadi Presenter: **Khathutshelo Mushavhanamadi, University of Johannesburg, South Africa**

TECHNICAL SESSIONS

TS10: Artificial Intelligent Methodology and System (Track1-2)

Time	10:50-12:20, November 23, 2025	Venue	5-10-201, No. 10 Teaching Building
Session Chair	Qiyuan Fan, Shunde Polytechnic University, China		

Oral Presentations	
10:50-11:05	0686: A Hybrid Deduction Framework Integrating Contradiction Separation and Resolution for First-Order Theorem Proving Author(s): Peiyao, Shuwei Chen, Jia Cheng Presenter: **Peiyao Liu, Xihua University, China**
11:05-11:20	7609: Hybrid Terahertz Imaging for IC Inspection With Physics-Guided Reconstruction and Multiscale Enhancement Author(s): Qi Mao, Jingbo Liu, Ling Yan, Wanchun Yang, Qiwen Fang, Shenghao Zhang, Yuhong Guo Presenter: **Jingbo Liu, Shunde Polytechnic University, China**
11:20-11:35	8395: A Fractional Deep Learning Framework Integrating Physics-Informed and Graph Neural Networks for Glioblastoma Progression Prediction Author(s): Feng Feng, Yunze Xiao Presenter: **Yunze Xiao, Xi'an University of Posts and Telecommunications, China**
11:35-11:50	6143: NeuroAura: HeteroGNN-Enhanced CDCL Solving Author(s): Kejian Liu, Ying Deng, Peiyao Liu, Yang Xu Presenter: **Ying Deng, Xihua University, China**
11:50-12:05	4653: 3W-CWGAN: Three-Way Weighted Convex Wasserstein GAN for Enhanced Sample Generation Author(s): Yu Fang, Fan Min, Xin Yang, Xin Wang, Pan Tao, Tianrui Li Presenter: **Yu Fang, Southwest Jiaotong University, China**
12:05-12:20	4607: CeNN-Forecaster: Trainable Cellular Neural Networks for Multivariate Long-Term Time Series Forecasting Author(s): Mohamed El Bahnasawi, Palina Dubatouka, Jonida Zekaj, Kyandoghere Kyamakya Presenter: **Mohamed El Bahnasawi, University of Klagenfurt, Austria**

TECHNICAL SESSIONS

TS11: Artificial Intelligent Methodology and System (Track 1-3)

Time	09:00-10:15, November 23, 2025	Venue	5-10-202, No. 10 Teaching Building
Session Chair	Lihua Guo, Shunde Polytechnic University, China		

Oral Presentations	
09:00-09:15	2328: Dual-Stream Symmetric Mutual Enhancement for Multi-Modal Named Entity Recognition Author(s): Enping Li, Li Lu, Shiming Zhang, Tianrui Li Presenter: **Enping Li, Southwest Jiaotong University, China**
09:15-09:30	3032: Dynamic Parallel Deduction Algorithm of Standard Contradiction Separation Rule Based on Ground Clause Author(s): Guoyan Zeng, Peiyao Liu, Guanfeng Wu, Shuwei Chen, Yang Xu, Jian Zhong Presenter: **Guoyan Zeng, Xihua University, China**
09:30-09:45	9114: Enhancing Continual Learning in Neural Networks via Elastic Weight Consolidation and Dynamic Architectures Author(s): Ramon Michel Leber, Zhong Li Presenter: **Ramon Michel Leber, FernUniversität in Hagen, Germany**
09:45-10:00	0973: A Street View Fusion Framework for Trajectory Representation Author(s): Shiming Zhang, Zhipeng Luo, Li Yang, Tianrui Li Presenter: **Shiming Zhang, Southwest Jiaotong University, China**
10:00-10:15	9803: Doppler Shift Compensation Method Using Zadoff-Chu Sequence for OFDM-Based Underwater Acoustic Communication Systems Author(s): Quoc Khuong Nguyen, Quang Hoa Nguyen, Van Duc Nguyen, Kyandoghere Kyamakya Presenter: **Van Duc Nguyen, Hanoi University of Science and Technology, Vietnam**

TECHNICAL SESSIONS

TS12: Artificial Intelligent Methodology and System (Track1-4)

Time	**10:50-12:05, November 23, 2025**	**Venue**	**5-10-202, No. 10 Teaching Building**
Session Chair	**Lihua Guo, Shunde Polytechnic University, China**		

Oral Presentations

10:50-11:05	2044: Client Selection of Federated Learning by Cost-Performance Analysis Author(s): Tien-Dung Cao, Hoang-Duc Le Presenter: **Tien-Dung Cao, Tan Tao University, Vietnam**
11:05-11:20	5535: Fan-Beam Covariance Feature Layer for Rotation-Invariant Image Recognition Author(s): Zhenxing Xu, Qiyuan Fan, Zheng Hu, Xia Deng, Na Lv Presenter: **Zhenxin Xu, Shunde Polytechnic University, China**
11:20-11:35	1479: A Feature Selection Method Based on Fuzzy Similarity and Static Markov Chain Perturbation Analysis Author(s): Xiaojin Huang, Yuxin Zhao, Dexian Wang, Pengfei Zhang, Tianrui Li, Presenter: **Xiaojin Huang, Chengdu University of Traditional Chinese Medicine, China**
11:35-11:50	0770: ConvNeXt-Based Multimodal Skin Cancer Classification Model With Cross-Modal Attention Pooling Author(s): Yuxin Hou, Junjie Han, Xinyue Zha, Ruijie Xu, Kuizhang Zhao, Guanfeng Wu Presenter: **Yuxin Hou, Southwest Jiaotong University, China**
11:50-12:05	8182: LDaMoE: An Effective Mixture-of-Experts Variant for Boosting Multimodal Continual Language Learning in MCLIP Author(s): Jitong Lei, Fengmao Lv, Tianrui Li Presenter: **Jitong Lei, Southwest Jiaotong University, China**

TECHNICAL SESSIONS

TS13: Practical Applications of AI and Knowledge Engineering (Track 3-1)

Time	09:00-10:30, November 23, 2025	Venue	5-10-203, No. 10 Teaching Building
Session Chair	Jie Zhang, Shunde Polytechnic University, China		

Oral Presentations	
09:00-09:15	0710: UAV Path Planning in 3D Dynamic Environment Based on Improved RRT Algorithm Author(s): Wenyu Zhang, Yufei Fu, Minshan Jiang, Xinyue Zhang Presenter: **Yufei Fu, Xi'an University of Posts and Telecommunications, China**
09:15-09:30	8258: The Application of AIGC Technology in the Design and Development of WMS Author(s): Ruijun Zhang, Jiawen Duan Presenter: **Ruijun Zhang, Institute of Service Science and Engineering, Wuhan University of Science and Technology, China**
09:30-09:45	9183: Instruction-Based Human-Machine Collaboration: An Information Fusion and Consistency Verification Framework Author(s): Xia Wang, Shaobing Xu, Jun Liu, Yang Xu Presenter: **Xia Wang, Tsinghua University, China**
09:45-10:00	1733: Aircraft Target Detection on the Remote Sensing Image Dataset MAR20 Using the GF-YOLO11 Algorithm Author(s): Lei Dong, Hao Sun, Qinglin Sun Presenter: **Lei Dong, Nankai University, China**
10:00-10:15	4229: High-Fidelity Generation of Traditional Jingchu Patterns Based-on StyleGAN3 Under Few-Shot Constraints Author(s): Cheng Chi, Huanjie Liu, Yulan Sun Presenter: **Huanjie Liu, Wuhan Textile University, China**
10:15-10:30	9952: Investigating the Effectiveness of Training Optical Character Recognition Engines Based on Large Language Models Author(s): Pronin Kirill N., Suleykin Alexander S., Pyatetsky Valery E. Presenter: **Kirill Pronin, National University of Science and Technology MISIS, Russia**

TECHNICAL SESSIONS

TS14: Practical Applications of AI and Knowledge Engineering (Track 3-2)

Time	**10:50-12:20, November 23, 2025**	**Venue**	**5-10-203, No. 10 Teaching Building**
Session Chair	**Jie Zhang, Shunde Polytechnic University, China**		

Oral Presentations	
10:50-11:05	6184: General LLM and Knowledge Powered Recommender System With a Case Study Author(s): Xia Wang, Niels Pinkwart, Nghia Duong-Trung, Claudia de Witt Presenter: **Xia Wang, German Research Center for Artificial Intelligence, Germany**
11:05-11:20	8315: Optimizing Sepsis Care Through Federated Reinforcement Learning: A Multi-Center Study on Mortality Reduction and Decision Robustness Author(s): Hong Wang, Jie Peng, Yunjun Xu, Yanping Huang Presenter: **Jie Peng, Shenzhen University, China**
11:20-11:35	8892: An Intelligent Medical Diagnostic Framework Based on Qwen3: Real-Time Knowledge Enhancement Through Knowledge Graphs and Dynamic Retrieval Author(s): Hong Wang, Wanglong Chen, Yanping Huang, Yunjun Xu Presenter: **Wanglong Cheng, Shenzhen University, China**
11:35-11:50	3528: Trend Prediction Model for Women's Pants based on a CNN-LSTM Model Author(s): Yulan Sun, Wei Yang, Nian Liu, Cheng Chi Presenter: **Nian Liu, Wuhan Textile University, China**
11:50-12:05	6278: Research on Multi-UAV Cooperative Task Allocation for Disaster Reconnaissance Author(s): Wenyu Zhang, Rui Liang, Yufei Fu, Xinyue Zhang Presenter: **Rui Liang, Xi'an University of Posts and Telecommunications, China**
12:05-12:20	4814: Utilizing the Small Language Models to Support the L2 Writing Accuracy and Complexity Through Knowledge-Augmented Reasoning Distillation: An Empirical Study Author(s): Yu Zhang, Yi Dai, Meirong Du, Manqing Ding Presenter: **Meirong Du, City University of Macau, Macau SAR, China**

TECHNICAL SESSIONS

TS15: Smart Grid and Intelligent Energy Control (SS9-2)

Time	09:00-10:30, November 23, 2025	Venue	5-10-204, No. 10 Teaching Building
Session Chair	Xuemin Ma, Shunde Polytechnic University, China		

Oral Presentations

09:00-09:15	6645: Improved Multi-Objective Particle Swarm Optimization-Based Scheduling Strategy for Energy Storage Systems Author(s): Fei Meng, Shen Luo, Chaowen Xie, Cheng Zhang, Leilei Xu, Jinyuan Wu, Chuan Lin Presenter: **Fei Meng, Zhongshan Power Supply Bureau of Guangdong Power Grid Co., Ltd., China**
09:15-09:30	7732: Research on rural resource coordination incorporating multi-microgrid energy networks Author(s): Xinyu You, Song Zhang, Yongxiang Cai, Mingjun He, Ke Fan Presenter: **Xinyu You, Electric Power Scientific Research Institute, Guizhou Power Grid Co., Ltd, China**
09:30-09:45	9867: A Safety Helmet Detection Algorithm Based on Improved YOLOv8 with Multi-scale Feature Optimization Author(s): Hui Tong, Shuyu Lin, Yun Zhao, Qiye Chen, Bin Fu, Ziwen Cai Presenter: **Hui Tong, Hainan Power Grid Co., Ltd, China**
09:45-10:00	5106: An Active Damping Suppression Method for Wideband High-Frequency Resonance in MMC-HVDC Systems Based on Phase Compensation Author(s): Chen Dou, Zihong Song, Xinyu You, Mingjun He, Lunhui Yang, Zijian Zhou Presenter: **Chen Dou, Guizhou Power Grid Co., Ltd., China**
10:00-10:15	7375: A Fuzzy Logic and Artificial Bee Colony Optimization Method for Power Quality Improvement in Distribution Systems Author(s): Yang Wang, Mingjun He, Zihong Song, Xinyu You, Zijian Zhou, Lunhui Yang Presenter: **Yang Wang, Electric Power Research Institute, Guizhou Power Grid Co., Ltd., China**
10:15-10:30	6633: Multi-Functional Integrated Power Quality Control and Wideband Oscillation Suppression for New Distribution Systems Author(s): Mingjun He, Yang Wang, Zijian Zhou, Lunhui Yang, Zihong Song, Xinyu You Presenter: **Mingjun He, Electric Power Research Institute, Guizhou Power Grid Co., Ltd., China**

TECHNICAL SESSIONS

TS16: Knowledge Engineering and Management (Track 2)

Time	10:50-12:20, November 23, 2025	Venue	5-10-204, No. 10 Teaching Building
Session Chair	Xuemin Ma, Shunde Polytechnic University, China		

Oral Presentations	
10:50-11:05	5864: Overcoming Knowledge Discrepancies: Structuring Reasoning Threads Through Knowledge Balancing in Interactive Scenarios Author(s): Daniel Burkhardt, Xiangwei Cheng Presenter: **Xiangwei Cheng, Ferdinand Steinbeis Institute, Germany**
11:05-11:20	4729: Investigating the Effectiveness of Inventory Management Techniques in Minimizing Medication Losses in South African Medical Supply Depots. Author(s): Ipfi Nemudzivhadi, Emmanuel Innocent Edoun, Khathutshelo Mushavhanamadi Presenter: **Khathutshelo Mushavhanamadi, University of Johannesburg, South Africa**
11:20-11:35	5029: Clustering Digital Ego Networks by Tie Strength: A Scalable, Platform-Independent Method Author(s): Masoud Fatemi, Mikko Laitinen, Pasi Fränti Presenter: **Pasi Fränti, University of Eastern Finland, Finland Chinese University of Hong Kong, Shenzhen, China**
11:35-11:50	4332: The Effects of Website Dark Patterns on Consumer Emotion and Purchase Intention Author(s): Hui-Chuan Hsu, Sun-Jen Huang, Cinh-An Lin, Yun-Chi Yang Presenter: **Yun-Chi Yang, NTUST**
11:50-12:05	7247: Improving Capacity Management of South African Retail Sector Through the Application of Industry 4.0 Technologies Author(s): Khathutshelo Mushavhanamadi, Molapo Mofokeng Presenter: **Khathutshelo Mushavhanamadi, University of Johannesburg, South Africa**
12:05-12:20	9392: Knowledge Graph Modeling of Personalized Garment Customization Processes Based on Deep Learning Author(s): Wenbo Guan, Sheng Hu, Wenchao Li, Tuanshan Zhang Presenter: **Wenbo Guan, Xi'an Polytechnic University, China**

POSTER SESSION 01

Time 15:20-15:40, November 22, 2025

Board No.	Paper Details
01	4938: Non-Cooperative Behaviors Management Based on a Comprehensive Weight Generation Mechanism in Consensus Reaching Processes Author(s): Jiaming Li, Rosa Rodríguez, Xiaowen Zhang, Yaya Liu Presenter: **Yaya Liu, University of Shanghai for Science and Technology, China**
02	7388: A Novel Weight Calculation Method for Analytic Hierarchy Process with Multiple Alternative Sets Author(s): Bo Jia, Shaohua Yi, Fusheng Yu, Shumao Qiu, Zheng Xu, Yipu Wang, Feiyang Zhang, Ruoxi Gu Presenter: **Shaohua Yi, Beijing Normal University, China**
03	5599: Evolutionary Multi-Tasking Multi-Objective Algorithm Based on Adaptive Transfer Strategy Author(s): Xuemin Ma, Lining Fu, Zuhong Lin, Ruhua Chen Presenter: **Xuemin Ma, Shunde Polytechnic University, China**
04	5585: Investment Risk Response Strategies Under Information Asymmetry Author(s): Haozhen Liu, Xiaohong Liu Presenter: **Xiaohong Liu, Southwest Minzu University, China**
05	5859: GICP-Based 3D Vision Guidance for High-Precision Robotic Manipulation Author(s): Jialing Wei, Yibo Zhu, Haoran Zheng, Guoji Gong, Jie Zhang, Zheng Hu Presenter: **Zheng Hu, Shunde Polytechnic University, China**
06	5475: Human-Robot Interaction Mechanisms and Collaborative Work Models in Robotic Systems Author(s): Jun Wan, Zheng Hu, Guoji Gong, Yibo Zhu, Weiwei Wang Presenter: **Jun Wan, Amazon Robotics, United States**
07	2759: Power Grid Line Loss Allocation in Low-Voltage Distribution Systems Based on Enhanced Loss Allocation Factor Method Author(s): Yanhua Cai, Fengrui Chang, Mingjie He, Yuhao Mai, Qingjiong Peng, Xiangang Peng Presenter: **Qingjiong Peng, Guangdong University of Technology, China**
08	0590: Short-Term Substation Power Load Forecast Based on OMVMD-XLSTM Model Author(s): Qiujing Lin, Hongquan Zhu, Fanqi Meng, Qiang Xu, Xiaolong Wang, Xiangang Peng Presenter: **Xiaolong Wang, Guangdong University of Technology, China**

Board No.	Paper Details
09	3182: A Two-Stage Optimization Framework for Interpretable KAN-Based Electricity Theft Author(s): Liguo Han, Yuhao Mai, Yu Huang, Luyao Zhang, Haobo Zhang, Xiangang Peng Presenter: **Haobo Zhang, Guangdong University of Technology, China**
10	5143: Establishment of Inductively Coupled Plasma Impedance Model and Research on Impedance Matching Author(s): Zijian Zhang, Zhihang Peng, Guidong Zhang, Zhong Li Presenter: **Guidong Zhang, Guangdong University of Technology, China**
11	1816: Bird Interference Issues in Power Transmission Towers and Solutions With Intelligent Bird Repellent Technology Author(s): Jiabo Xie, Jianbin Li, Junxian Ruan, Chuling Chen, Weijian Ye, Jialin Wang Presenter: **Jiabo Xie, Zhongshan Power Supply Bureau Banfu Power Supply Subdivision Guangdong Power Grid Co., China**
12	8335: Deep Learning Ensemble for Photovoltaic Power Forecasting and Dynamic Anomaly Detection Author(s): Xiaoming Lin, Bin Qian, Yong Xiao, Jianlin Tang Presenter: **Xiaoming Lin, Electric Power Research Institute of CSG, China**
13	0114: A Power Load Forecasting Method Based on a Hybrid Model of Long Short-Term Memory Neural Networks and Deep Neural Networks Author(s): Hongtao Su, Peibin Lin, Yiyang Li Presenter: **Hongtao Su, Guangdong University of Technology, China**
14	1230: Empowering the Application of the SWAT Model in Karst Areas with Large Language Models Author(s): Baolai Zeng, Jianqiao Lu, Linyan Pan, Yan Deng Presenter: **Linyan Pan, Guangxi Normal University, China**
15	1414: The IMM-PMBM Filter for Coexistence Point and Extended Maneuvering Targets Tracking with Unknown Detection Probability Author(s): Yuansheng Li, Yixing Du, Zhaohui Luo Presenter: **Yuansheng Li, Chongqing Vocational Institute of Engineering, China**
16	4146: Multi-source Motion Information Acquisition System for Lower Limb Rehabilitation Robots based on Edge Intelligence Author(s): Dongnan Su, Zhaohui Luo, Peng Shang Presenter: **Dongnan Su, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China**

Board No.	Paper Details
17	0531: SWAT-CNN-LSTM Coupling Method for River Runoff Prediction in Areas with Insufficient Hydrological Monitoring Author(s): Runhan Han, Linyan Pan, Junfeng Dai, Ming Du, Songli Hu, Derong Zeng Presenter: **Linyan Pan, Guangxi Normal University, China**
18	5776: Auto-arrange Buildings in Urban Planning with DQN Author(s): Han Lu, Hao Hu, Tin Yeung Joseph Chan Presenter: **Han Lu, Shunde Polytechnic University, China**
19	9962: ChainedSeg: Accurate Human Action Segmentation Based on Motion Chains Author(s): Meng Zhang, Feng Zhang, Ze Li, P. Y. Mok Presenter: **Meng Zhang, The Hong Kong University of Science and Technology, China**
20	8910: LightVTO: A High-Fidelity, Real-Time 3D Virtual Try-on System on Smartphones Author(s): Jingxiang Lin, Qichen Xie, N. M. Cheung, Yangping Zhou, Yanghong Zhou, P. Y. Mok Presenter: **Jingxiang Lin, The Hong Kong Polytechnic University, China**
21	5925: Detection of Student Classroom Behavior Using the Improved YOLOv8 Author(s): Jing Lin, Wei Huang Presenter: **Jing Lin, Fujian Normal University, China**
22	6798: Microservice Delay Anomaly Detection by Reconstructing Itemized Logs into Graphs Author(s): Rui Ma, Ziqi Ma, Yihan Sun, Hang Yu Presenter: **Ziqi Ma, Shanghai University, China**
23	5362: Cross-Domains Recommender System via Graph Fusion Author(s): Di Zhang, Qian Zhang, Jie Lu, Guanquan Zhang Presenter: **Guangquan Zhang, University of Technology Sydney, Australia**
24	5518: Dual-Network Based Hybrid Recommendation for Long- and Short-Term Interests Author(s): Liming Liu, Liqin Wei, Ruiping Yin Presenter: **Ruiping Yin, Beijing University of Technology, China**
25	6339: MIL-LSTM: A Logging Curve Regression Prediction Model Based on Multimodal LSTM and Incremental Learning Author(s): Zhuo Geng, Ziqi Ma Presenter: **Ziqi Ma, Shanghai University, China**
26	9270: Power Load Forecasting Based on Low-Rank Tensor Completion Algorithm Author(s): Tiefeng Zhang, Weiye Wang, Liang Yu, Shengyu Xu, Zilong Ma Presenter: **Zilong Ma, North China Electric Power University, China**

Board No.	Paper Details
27	3943: Review of Collaborative Architecture, Key Technologies, and Application of Industrial Edge Computing Author(s): Yuzhu Mei, Jiali Yi Presenter: **Yuzhu Mei, Shunde Polytechnic University, China**
28	4966: A Power Load Forecasting Method Based on Deep Learning Author(s): Xiaobing Xiao, Song Zhang, Xinyu You, Ke Fan, Yang Wang Presenter: **Xiaobing Xiao, Electric Power Scientific Research Institute, Guizhou Power Grid Co., Ltd., China**
29	5287: A Group Consensus-based Decision-making Trial and Evaluation Laboratory Method for Development Strategy and Bottleneck Analysis of New Energy Vehicles Author(s): Zelin Wang, Xiaoming Zhang, Xiangbing Wang, Rosa Rodr iguez, Luis Martínez, Wen He Presenter: **Zelin Wang, China Jiliang University, China**
30	0970: End-to-End Clean-Label Backdoors via Steganographic Triggers and Gradient Alignment Author(s): Wei Hou, Zihan Shen, Yun Li Presenter: **Yun Li, Nanjing University of Posts and Telecommunications, China**

POSTER SESSION 02

Time 10:30-10:50, November 23, 2025

Board No.	Paper Details
01	0561: Optimal Scheduling of Rural Multi-Microgrids with Shared Multi-Energy Storage: A Smarter Agent Approach Author(s): Song Zhang, Yongxiang Cai, Xinyu You, Mingjun He, Ke Fan Presenter: **Song Zhang, Electric Power Scientific Research Institute Guizhou Power Grid Co., Ltd., China**
02	9337: A Virtual Synchronous Control Strategy Based on a Step-Size Adaptive Improved Wolf Pack Algorithm Author(s): Leilei Xu, Fei Meng, Shen Luo, Chaowen Xie, Cheng Zhang, An Chen Presenter: **Leilei Xu, Zhongshan Power Supply Bureau of Guangdong Power Grid Co., Ltd., China**
03	6453: A Method for De-Icing Transmission Lines Based on Improved YOLOv8 Author(s): Zongtao Qin, Bo Feng, Bin Feng, Weixiang Huang, Xiong Zhou Presenter: **Zongtao Qin, Guangxi Power Grid Co., Ltd. Guilin Power Supply Bureau, China**
04	0613: Improved YOLOv8 Safety Helmet Detection Model Based on Multi-Scale Feature Enhancement Author(s): Jue Huang, Longjin Chen, Bin Zhu, Xuemei Huang, Shijie Feng, Yanfei Wu Presenter: **Jue Huang, Hainan Power Grid Co., Ltd., China**
05	2719: Deep Learning-Driven Detection System for Skin Surface Defects Author(s): Qinghua Liu, Guanfeng Wu, Yang Xu Presenter: **Qinghua Liu, Chengdu Aircraft Industry (Group) Co., Ltd., China**
06	1423: KOKS: Enhancing Multi-Person Pose Estimation Using Keypoint-Wise Object Keypoint Similarity Loss Author(s): Xiang Liu, Jie Zhang, Yue-Cai Huang Presenter: **Xiang Liu, South China Normal University, China**
07	9981: BITIP: Bidirectional Temporal Information Propagation in Video Object Segmentation Author(s): Longzai Huang, Jie Zhang, Yue-Cai Huang Presenter: **Longzai Huang, South China Normal University, China**
08	0638: Offline Safe Reinforcement Learning for Mechanical Ventilation Setting via Dynamic Safety Regularization Author(s): Yifan Wang, Zhipeng Luo, Chuanliang Pan, Zhong Wang, Jie Su, Yu Zhang, Rui Tu, Tianrui Li Presenter: **Zhipeng Luo, Southwest Jiaotong University, China**

Board No.	Paper Details
09	0581: Stage-Aware Clause Reduction Method Based on Standard Contradiction Separation Rule Author(s): Kun Liu, Feng Cao, Weigang Zhou Presenter: **Kun Liu, Jiangxi University of Science and Technology, China**
10	2939: A Multi-Clause Deduction Algorithm Based on Structured Clause Selection Author(s): Hongchen Zeng, Feng Cao Presenter: **Hongchen Zeng, Jiangxi University of Science and Technology, China**
11	4482: A Multi-Clause Deduction Algorithm Based on Contradiction Separation Clause Evaluation Author(s): Shukang Wu, Feng Cao, Weigang Zou Presenter: **Shukang Wu, Jiangxi University of Science and Technology, China**
12	0964: Bidirectional Subset Selection for Domain Adaptation Against Membership Inference Attacks Author(s): Yi Yin, Guangquan Zhang, Hua Zuo, Jie Lu Presenter: **Guangquan Zhang, University of Technology Sydney, Australia**
13	7683: Learning to Guide the Contradiction Separation Extension Prover Author(s): Xin Wu, Shuwei Chen, Yuanjun Yang, Depei Song, Yuanyuan Liu Presenter: **Shuwei Chen, Southwest Jiaotong University, China**
14	7925: Convergence Analysis of the Levenberg-Marquardt Algorithm for Hybrid Passive Localization Optimization in Radio Monitoring Station Network Author(s): Peng Xu, Fangli Ma Presenter: **Peng Xu, Southwest Jiaotong University, China**
15	3916: Graph Convolutional Network Based Radar and Visual Sensing Data Fusion for SLAM Author(s): Qiyuan Fan, Kin Sam Yen Presenter: **Qiyuan Fan, Universiti Sains Malaysia, Malaysia**
16	8506: Fuzzy Ideal Information Uncertainty Measures Framework for Fast Feature Selection Author(s): Yue Yang, Jihong Wan, Xiaoping Li, Hongmei Chen Presenter: **Yue Yang, Guangdong University of Technology, China**
17	9631: Measurement of Organizational Resilience of Listed Companies Based on Annual Report Text Analysis: Evidence from Seven Listed Express Delivery Companies Author(s): Huijuan Zhao, Yueying Li, Xiaomeng Guo Presenter: **Yueying Li, Xi'an University of Posts and Telecommunications, China**
18	9877: MEMAF: Joint Modality Knowledge Experts and Modality Awareness Fusion for Multi-Modal Knowledge Graph Completion Author(s): Lei Xiong, Fei Teng, Yue Zhao, Jinhong Guo Presenter: **Lei Xiong, Southwest Jiaotong University, China**

Board No.	Paper Details
19	8468: Multi-Perspective Outlier Detection With Granular-Ball Computing Author(s): Rongxiang Wang, Jihong Wan, Xiaoping Li, Min Li Presenter: **Rongxiang Wang, Guangdong University of Technology, China**
20	0920: Multi-Objective Substation Siting Based on Multi-Strategy Multi-Objective Whale Optimization Algorithm Author(s): Tiefeng Zhang, Zilong Ma, Liang Yu, Yongjie Ye Presenter: **Zilong Ma, North China Electric Power University, China**
21	8325: A Classification Framework Based on Cluster Ensemble Author(s): Yulu Huang, Rui Wang, Hongjun Wang Presenter: **Hongjun Wang, Southwest Jiaotong University, China**
22	9622: Photovoltaic Fault Diagnosis Based on Channel – Spatial Attention and GLU-Gated Feature Fusion Author(s): Zhuoye Xu, Yanwei Jiang, Xujian Shu and Jingjing Yang Presenter: **Zhuoye Xu, Fuzhou University, China**
23	6277: Interpretable Deep Sequential Modeling for Early Prediction of Post-Operative Acute Kidney Injury in Intensive Care Units Author(s): Simeng Xie, Zhipeng Luo, Yu Zhang, Tianrui Li Presenter: **Simeng Xie, Tangshan Institute, Southwest Jiaotong University, China**
24	4300: A Machine Learning Framework for Comparative Classification Analysis Author(s): Yulu Huang, Rui Wang, Hongjun Wang Presenter: **Hongjun Wang, Southwest Jiaotong University, China**
25	2655: Research on Ontology Construction for Substation Site Selection Author(s): Tiefeng Zhang, Dong Li, Liang Yu, Aigang Cao, Zilong Ma Presenter: **Zilong Ma, North China Electric Power University, China**
26	2305: A Time-Variable Attention Network for Power Line Icing Prediction Author(s): Hua-Yang Ye, Jian-Rong Wu, Qiang Fan, Qi-Li Zhang, Jin-Qiang He, Bo Gong, Hao Li, Hourong Zhang Presenter: **Jin-Qiang He, Electric Power Research Institute, China Southern Power Grid Corporation, China**
27	6459: EBE-Nav: Human-Mimetic "Eye-Brain-Eye" Exploration for Zero-Shot Object Goal Navigation via Dual-Brain Memory Integration Author(s): Kexun Chen, Qianlei Wang, Haonan Luo, Tianrui Li Presenter: **Kexun Chen, Southwest Jiaotong University, China**
28	6996: Design of Micro-Gripper Based on Compliant Slider-Crank Mechanism Author(s): Ruiqi Li Presenter: **Ruiqi Li, Shunde Polytechnic University, China**

Technical Visit: KUKA Robotics

Time	**13:30-16:00, November 23, 2025**
Assembly Point	**1st Floor Parking Lot of Taoyuan Canteen, Shunde Polytechnic University**

Midea KUKA Smart Manufacturing Technology Park, located in Shunde, Guangdong, spans 288,000 square meters and represents a cumulative investment of 2.7 billion yuan. It focuses on three core business sectors: robotics full value chain, HCS (Healthcare Automation Solutions), and industrial automation. With a supply chain localization rate exceeding 85%, the park stands as the largest primary robot body production base in South China and across the nation, driving innovation and efficiency in advanced manufacturing.

MEMO

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NATIONAL ASSOCIATION OF NON-CLASSIC LOGIC AND COMPUTATION, CHINESE SOCIETY OF LOGIC

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