

# 2025 the 10th International Conference on Big Data Analytics

ICBDA2025 | [www.icbda.org](http://www.icbda.org)

# 2025 the 9th International Conference on Innovation in Artificial Intelligence

ICIAI2025 | [www.iciai.org](http://www.iciai.org)



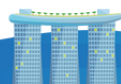
2025

SINGAPORE

March 13-15, 2025

**Nanyang Technological University (NTU@one-north)**

**Address:** 11 Slim Barracks Rise Singapore 138664



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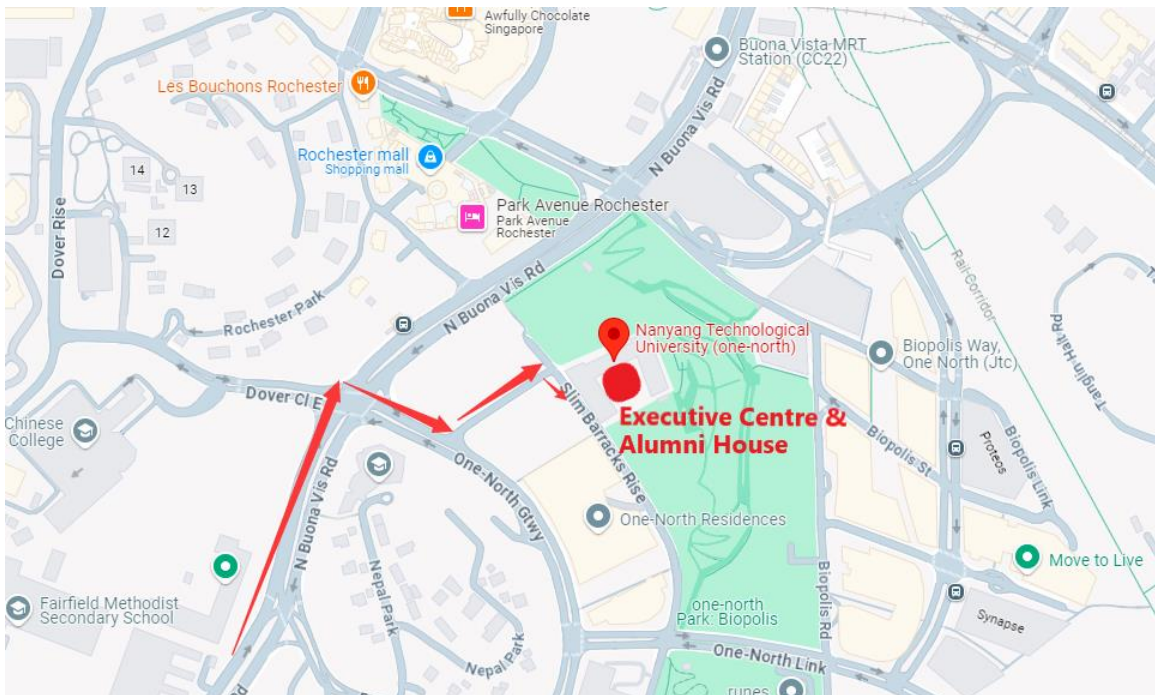
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# Conference Venue



## Nanyang Technological University (NTU@one-north) -the Executive Centre & the Alumni House-

<b>Address:</b>	<b>11 Slim Barracks Rise Singapore 138664</b> <a href="https://maps.app.goo.gl/HNK9UPCvWLDHemZt5">https://maps.app.goo.gl/HNK9UPCvWLDHemZt5</a>
<b>Directions by ar:</b>	<b>Nearest expressway: AYE</b>
<b>Directions by train:</b>	<b>Buona Vista MRT (East-West / Circle Line)</b> <b>One-North MRT (Circle Line)</b> <b>Approximately 5 minutes by walk</b>

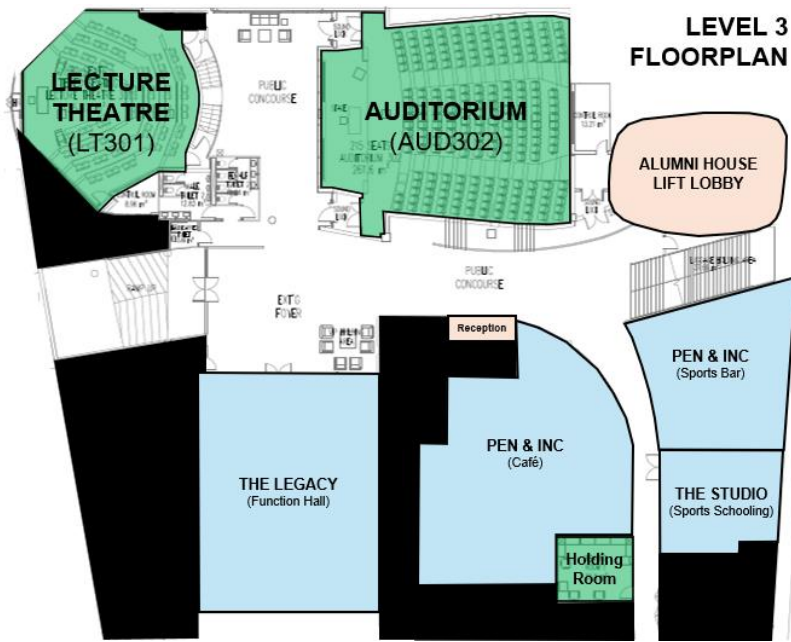


# Conference Venue

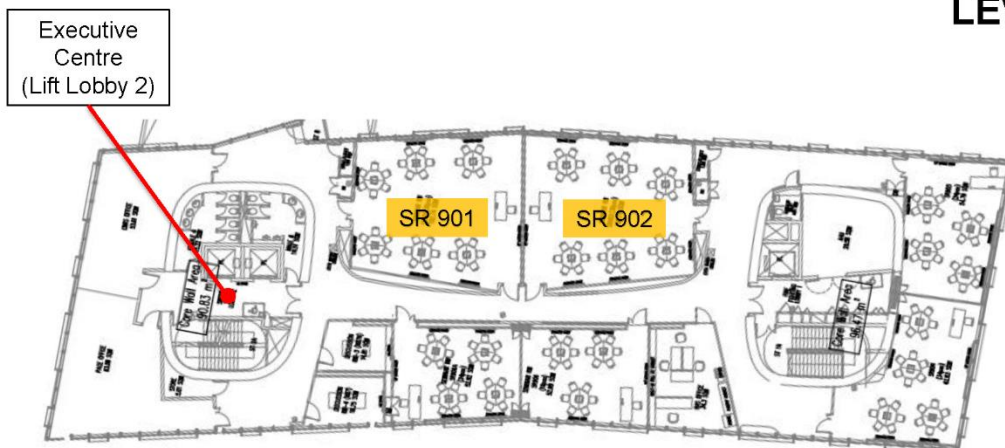
## Conference Rooms

The campus comprises of 2 wings – the Executive Centre and the Alumni House

- March 13: 907 (Level 9 of Executive Centre)
- March 14: 301 (Level 3 of Alumni House), 901 & 902 (Level 9 of Executive Centre)
- March 15: 901 (Level 9 of Executive Centre)



## LEVEL 9



## Dinner Banquet on March 14, 2025

Venue: PEN & INC, Cafe One-North at THE LEGACY

Address: 11 Slim Barracks Rise, #03-01/02, Singapore 138664

# Onsite Guideline

## Time Zone

UTC+8

## Schedule

- ❑ **March 13: Sign-in and Conference Kits Collection → 907 (Level 9 of Executive Centre)**
- ❑ **March 14: Keynote & Invited Speeches & Oral Sessions → 301 (Level 3 of Alumni House), 901 & 902 (Level 9 of Executive Centre)**
- ❑ **March 15: Oral Sessions → 901 (Level 9 of Executive Centre)**

## Language

- Please make presentation and discuss in English.

## Oral Presentation

- Keynote Speech: 45 mins (including Q&A).
- Invited Speech: 30 mins (including Q&A).
- Author Presentation: about 13 minutes for presentation and 2 minutes for Q&A.
- Please make sure your presentation is well timed. Please keep in mind that the program is full and that the speaker after you would like their allocated time available to them.
- Each speaker is required to meet her/his session chair in the corresponding session rooms 10 minutes before the session starts and copy the slide file (PPT or PDF) to the conference computer.
- Please note that each session room will be equipped with a LCD projector, screen, point device, microphone, and a laptop with general presentation software such as Microsoft PowerPoint and Adobe Reader. Please make sure that your files are compatible and readable with our operation system by using commonly used fonts and symbols. If you plan to use your own computer, please try the connection and make sure it works before your presentation.
- Videos: If your PowerPoint files contain video clips, please make sure that they are well formatted and connected to the main files.

## Reminder

Please attend the conference in formal attire.

Safety Reminder: Secure Valuable Items at All Times.

We remind you to secure your personal belongings at all times.

The conference organizer will not be responsible for the loss or damage to any personal belongings.

## Emergency Numbers

- Fire and Ambulance: 995
- Police: 999

## Singapore Weather

<https://www.weather.gov.sg/home/>

# Online Guideline

## Time Zone

UTC+8

## Platform | ZOOM



- Download Zoom from: <https://zoom.us/download>
- For Chinese Users: <https://zoom.com.cn/download>
- For Zoom skills: <https://support.zoom.us/hc/en-us/articles/206618765-Zoom-Video-Tutorials>

## Test Sessions

**Date: March 13, 2025**

Prior to the formal meeting, presenters shall join the test room to ensure everything is on the right track.

## Equipment & Environment Needed

- A computer with internet connection and camera
- Headphones
- Stable internet connection
- Proper lighting and background

## Presentation Instructions

- Please make presentation and discuss in English.
- Author Presentation: about 13 minutes for presentation and 2 minutes for Q&A.

## Attention Please

The conference will be recorded. We will appreciate your proper behavior.

Presentation Recording and Broadcasting:

The photograph(s) or video or audio recording(s) will be taken by conference organizer. It will be used in for conference program purpose. The photograph(s) or video or audio recording(s) will be destroyed after the conference, it cannot be distributed to or shared with anyone, it shall not be used for commercial nor illegal purpose. Each presentation will be recorded, if you don't want it, please inform our staff ahead of time.

Do not record other presenters' presentation nor distribute it to or share with anyone unless the presenter gives written consent of agree. Failure to do so will be considered a serious academic violation subject to disciplinary / lawful action.

## Zoom ID

**Room A:** 853 1824 0450 <https://us02web.zoom.us/j/85318240450>

**Room B:** 896 6537 7897 <https://us02web.zoom.us/j/89665377897>

# Conference Committees

## Advisory Committee

Erik Cambria Nanyang Technological University Singapore

## Conference Committee Chairs

Sheng-Uei Guan Xi'an Jiaotong-Liverpool University China  
Hayato YAMANA Waseda University Japan

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Fanwen Meng National Healthcare Group Singapore  
Yohei Saika National Institute of Technology, Gunma College Japan  
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Shangguang Wang Beijing University of Posts and Telecommunications China  
Jionglong Su Xi'an Jiaotong-Liverpool University China  
Hui Zhang Eli Lilly & Company USA  
Chutisant Kerdvibulvech National Institute of Development Administration Thailand

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Huakang Li Xi'an Jiaotong-Liverpool University China  
Maruf Hasan Xi'an Jiaotong-Liverpool University China

## Publication Chair

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## Publicity Chairs

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Sujing Wang Lamar University USA  
Christopher Harris University of Northern Colorado USA  
Tiong Sieh Kiong Universiti Tenaga Nasional Malaysia

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Qingchao Kong Institute of Automation, Chinese Academy of Sciences China  
Qizhi Xu Beijing Institute of Technology China  
Yinghua Zhou Chongqing University of Posts and Telecommunications China  
Hong Dai Liaoning University of Science and Technology China  
Hui Shen National University of Defense Technology China  
Guiming Luo Tsinghua University China  
Man Fung LO The University of Hong Kong China  
Shaoqing Guo Northwest Normal University China  
Liang Zhao Dalian University of Technology China  
Yong Li Changchun University of Technology China  
Hsing-Hung Lin Telecommunication Lab. Chunghwa Telcom. Co. Taiwan

# Conference Committees

## Technical Committee Members

Po-Chou Shih	National Yunlin University of Science and Technology	Taiwan
Chia-Chi Wu	National Chung Hsing University	Taiwan
Yen-chiu Chen	Chung Hua University	Taiwan
Chih Hung Wang	National Chiayi University	Taiwan
Yu-Feng Hsu	National Chung Cheng University	Taiwan
Shih-Wen Ke	National Central University	Taiwan
Meng Qu	Miami University-Oxford	USA
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Toshiaki Aida	Okayama University	Japan
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Kazuhisa Fukuzawa	Aichi Institute of Technology	Japan
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Joann G. Perez	Bulacan State University	Philippines
Elenita T. Caparino	Bulacan State University	Philippines
Dante L. Silva	Mapua University	Philippines
Sureena Matayong	Prince of Songkla University	Thailand
Somyot Kaitwanidvilai	King Mongkut's Institute of Technology Ladkrabang	Thailand
Aziz Hmioui	Sidi Mohamed Ben Abdellah University Fez	Morocco
Ndala Yves Mulongo	University of Johannesburg	South Africa
Ari Yair Barrera-animas	Universidad Panamericana	México
Pedro Segundo Castañeda	Peruvian University of Applied Sciences	Perú
Giulio Marchena Sekli	CENTRUM Católica Graduate Business School	Perú
Janne Heilala	University of Turku	Finland
Zaher Aghbari	University of Sharjah	UAE
Sujala Shetty	BITS Pilani Dubai	UAE
Manoj Kumar	University of Wollongong, Dubai	UAE
Radhakrishna Bhat	Manipal Academy of Higher Education	India
Parameshachari B D,	Nitte Meenakshi Institute of Technology	India
Shobha G	RV College of Engineering	India
Rajesh Mahadeva	Indian Institute of Technology	India
Sivasamy R	University of Botswana	Botswana
Sharmilan Somasundaram	Informatics Institute of Technology	Sri Lanka
Huynh Cong Viet Ngu	FPT University	Vietnam
Abdulrazaq Sanni	Ulster University	United Kingdom
Otmane Azeroual	German Centre for Higher Education Research and Science Studies (DZHW)	Germany



# Program Outline

Day 1   March 13, 2025   Thursday   (UTC+8)		
Time	Activity	
10:00-12:00	<b>Venue: 907 (Level 9 of Executive Centre)</b> Sign-in and Conference Kits Collection for <b>Onsite Participants</b>	
14:00-17:00		
<b>Online Test - Zoom</b>		
14:00-17:00	<b>Room A: 853 1824 0450</b> <a href="https://us02web.zoom.us/j/85318240450">https://us02web.zoom.us/j/85318240450</a>	<b>Room B: 896 6537 7897</b> <a href="https://us02web.zoom.us/j/89665377897">https://us02web.zoom.us/j/89665377897</a>
	<b>Session 11</b> BAI25-8202, BAI25-E09, BAI25-555, BAI25-8184, BAI25-3470, BAI25-5540, BAI25-8260	<b>Session 12</b> BAI25-E407, BAI25-0425, BAI25-1383, BAI25-3510, BAI25-6765, BAI25-8414, BAI25-2047, BAI25-2078
	<b>Session 13</b> BAI25-0606, BAI25-5270, BAI25-2165 BAI25-4232, BAI25-6046, BAI25-553 BAI25-3798	<b>Session 14</b> BAI25-5437, BAI25-3231, BAI25-4872, BAI25-0120, BAI25-7269, BAI25-7471, BAI25-6839
	<b>Session 15</b> BAI25-1735, BAI25-2119, BAI25-2422, BAI25-5610, BAI25-562, BAI25-E0214, BAI25-7771, BAI25-5425	<b>Session 16</b> BAI25-4469, BAI25-0893, BAI25-2727, BAI25-569, BAI25-560, BAI25-528, BAI25-557

# Program Outline

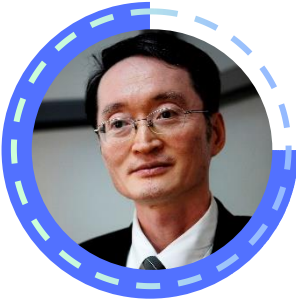
Day 2   March 14, 2025   Friday   (UTC+8)			
Time	Activity		
<b>Venue: 301 (Level 3 of Alumni House)</b>			
<b>Host: Senior Assoc. Prof. Jionglong Su, Xi'an Jiaotong-Liverpool University (XJTLU), China</b>			
9:00-9:05		<b>Opening Remark &amp; Welcome Address</b> Conference Chair – Prof. Sheng-Uei Guan, Xi'an Jiaotong-Liverpool University	
9:05-9:50		<b>Keynote Speech - Prof. Jinjun Chen (IEEE Fellow)</b> Swinburne University of Technology, Australia <i>“Composite DP: Bounded and Unbiased Composite Differential Privacy”</i>	
9:50-10:35		<b>Keynote Speech - Prof. Erik Cambria (IEEE Fellow)</b> Nanyang Technological University, Singapore <i>“7 Pillars for the Future of AI”</i>	
10:35-10:55	<b>Group Photo &amp; Coffee Break</b>		
<b>Host: Dr. Fanwen Meng, National Healthcare Group, Singapore</b>			
10:55-11:25		<b>Invited Speech - Prof. Tao Cheng</b> University College London, UK & The Alan Turing Institute, UK <i>“Urban Big Data Analytics: From SpaceTimeAI to SpaceTime GenAI”</i>	
11:25-11:55		<b>Invited Speech - Senior Assoc. Prof. Jionglong Su</b> Xi'an Jiaotong-Liverpool University (XJTLU), China <i>“AI-assisted facial analysis in healthcare: From disease detection to comprehensive management”</i>	
11:55-12:25		<b>Invited Speech - Assoc. Prof. Cheng Siong Lee (Vincent)</b> Monash University, Australia <i>“Issues and challenges of Graph Representation Learning in Big Data Paradigm”</i>	
12:25-13:30	<b>Lunch Break</b>		
13:30-14:00		<b>Invited Speech - Assoc. Prof. Michele Melchiori</b> University of Brescia, Italy <i>“From Discovery to Trust: How can LLMs and Blockchain Empower (Big) Data Services?”</i>	
	<b>301</b>	<b>901</b>	<b>902</b>
14:00-15:30	<b>Session 1:</b> Computational Models and Optimization Algorithms	<b>Session 2:</b> Big Data Analysis, Management and Application	<b>Session 3:</b> Machine Learning Models and Algorithms
15:45-17:15	<b>Session 4:</b> Digital Image Analysis and Processing Methods	<b>Session 5:</b> Anomaly Detection and Security Protection in Modern Integrated Information Systems	<b>Session 6:</b> Image Detection and Classification Methods
18:00-20:00	<b>Dinner Banquet - Pen &amp; Inc @ One North</b>		

# Program Outline

Day 3   March 15, 2025   Saturday   (UTC+8)		
Time	Activity	
9:00-10:30	Venue: 901	<b>Session 7:</b> Model-based Data Analysis and Data Management
10:45-12:00		<b>Session 8:</b> Image Detection and Classification Methods
12:00-13:00		<b>Lunch Break</b>
13:00-14:15		<b>Session 9:</b> Language Models and Natural Language Processing
14:30-16:00		<b>Session 10:</b> Next-generation Artificial Intelligence Technology and Applications

Day 3   March 15, 2025   Saturday   (UTC+8)   Online		
Time	Activity	
	Room A: 853 1824 0450	Room B: 896 6537 7897
9:30-10:00	<b>Invited Speech - Dr. Armstrong Aboah</b> North Dakota State University, USA <i>“Driving the Future: Big Data Analytics Transforming Transportation”</i>	
10:00-12:00	<b>Session 11:</b> AI based model design, algorithm optimization and intelligent application technology	<b>Session 12:</b> Big Data Architecture and Analysis
13:30-15:30	<b>Session 13:</b> Multimodal Language Analysis and Emotion Recognition	<b>Session 14:</b> Data Privacy and Security Management
15:45-17:45	<b>Session 15:</b> Machine Learning Theory and Computation	<b>Session 16:</b> Advanced Image Analysis and Computational Models

# Conference Chair



## **Prof. Sheng-Uei Guan**

**Xi'an Jiaotong-Liverpool University, China**

Steven Guan (Sheng-Uei Guan) received his BSc. from Tsinghua University and M.Sc. & Ph.D. from the University of North Carolina at Chapel Hill.

He is currently an Honorary Professor at University of Liverpool & also a Professor at Xi'an Jiaotong-Liverpool University (XJTLU). He served the head of department position at XJTLU for 4.5 years, creating the department from scratch and now in shape. Before joining XJTLU, he was a tenured professor and chair in intelligent systems at Brunel University, UK.

Prof. Guan has worked in a prestigious organization for several years, serving as a design engineer, project leader, and department manager. After leaving the industry, he joined the academia for three and half years. He served as deputy director for the Computing Center and the chairman for the Department of Information & Communication Technology. Later he joined the Electrical & Computer Engineering Department at National University of Singapore as an associate professor for 8 years.

There are quite a few inventions from Prof. Guan including Generalized Minimum Distance Decoding for Majority Logic Decodable Codes, Prioritized Petri Nets, Self-Modifiable Color Petri Nets, Dynamic Petri Net Model for Iterative and Interactive Distributed Multimedia Presentation, Incremental Feature Learning, Ordered Incremental Input/Output Feature Learning, Input/Output Space Partitioning for Machine Learning, Recursive Supervised Learning, Reduced Pattern Training using Pattern Distributor, Contribution Based Feature Selection, Incremental Genetic Algorithms, Incremental Multi-Objective Genetic Algorithms, Decremental Multi-objective Optimization, Multi-objective Optimization with Objective Replacement, Incremental Hyperplane Partitioning for Classification, Incremental Hyper-sphere Partitioning for Classification, Controllable Cellular Automata for Pseudorandom Number Generation, Self Programmable Cellular Automata, Configurable Cellular Automata, Layered Cellular Automata, Transformation Sequencing of Cellular Automata for Pseudorandom Number Generation, Open Communication with Self-Modifying Protocols, etc.

### **Research Interests**

- machine learning, computational intelligence, big data analytics, mobile commerce, modeling, networking, personalization, security, coding theory, and pseudorandom number generation Big Data Analysis (SNS, Trustworthy, Recommendation, Authorship Identification)

# Keynote Speaker

## Prof. Jinjun Chen

Swinburne University of Technology, Australia (IEEE Fellow)

- Venue: 301 (Level 3 of Alumni House)
- Time: 9:05-9:50, March 14, 2025 (UTC+8)



*Speech Title: Composite DP: Bounded and Unbiased Composite Differential Privacy*

**Biography:** Dr Jinjun Chen is a Professor from Swinburne University of Technology, Australia. He holds a PhD in Information Technology from Swinburne University of Technology, Australia. His research interests include data privacy and security, cloud computing, scalable data processing, data systems and related various research topics. His research results have been published in more than 300 papers in international journals and conferences. He received various awards such as IEEE TCSC Award for Excellence in Scalable Computing and Australia's Top Researchers. He has served as an Associate Editor for various journals such as ACM Computing Surveys, IEEE TC, TCC and TSUSC. He is a MAE (Academia Europea) and IEEE Fellow (IEEE Computer Society). He is Chair for IEEE TCSC (Technical Community for Scalable Computing).

**Abstract:** The most kind of traditional DP (Differential Privacy) mechanisms (e.g. Laplace, Gaussian, etc.) have unlimited output range. In real scenarios, most datasets have bounded output range, e.g. age [0-150]. Users would then need to use post-processing or truncated mechanisms to forcibly bound output distribution. However, these mechanisms would incur bias problem which has been a long-known DP challenge, resulting in various unfairness issues in subsequent applications. A tremendous amount of research has been done on analyzing this bias problem and its consequences, but no solutions can solve it fully.

As **the world first solution** to solve this long-known DP bias problem, this talk will present a new innovative DP mechanism named **Composite DP**. It will first illustrate this long-known bias problem, and then detail the rationale of the new mechanism and its example noise functions as well as their implementation algorithms. All source codes are publicly available on Github for any deployment or verification

# Keynote Speaker



## Prof. Erik Cambria

Nanyang Technological University, Singapore (IEEE Fellow)

- ❑ Venue: 301 (Level 3 of Alumni House)
- ❑ Time: 9:50-10:35, March 14, 2025 (UTC+8)

*Speech Title: 7 Pillars for the Future of AI*

**Biography:** Erik Cambria is a Professor at Nanyang Technological University, where he also holds the appointment of Provost Chair in Computer Science and Engineering, and Founder of several AI companies, such as SenticNet (<https://business.sentic.net>), offering B2B sentiment analysis services, and finaXai (<https://finax.ai>), providing fully explainable financial insights. Prior to moving to Singapore, he worked at Microsoft Research Asia (Beijing) and HP Labs India (Bangalore), after earning his PhD through a joint program between the University of Stirling (UK) and MIT Media Lab (USA). Today, his research focuses on neurosymbolic AI for interpretable, trustworthy, and explainable affective computing in domains like social media monitoring, financial forecasting, and AI for social good. He is ranked in Clarivate's Highly Cited Researchers List of World's Top 1% Scientists, is recipient of many awards, e.g., IEEE Outstanding Early Career, was listed among the AI's 10 to Watch, and was featured in Forbes as one of the 5 People Building Our AI Future. He is an IEEE Fellow, Associate Editor of various top-tier AI journals, e.g., Information Fusion and IEEE Transactions on Affective Computing, and is involved in several international conferences as keynote speaker, program chair and committee member.

**Abstract:** In recent years, AI research has showcased tremendous potential to impact positively humanity and society. Although AI frequently outperforms humans in tasks related to classification and pattern recognition, it continues to face challenges when dealing with complex tasks such as intuitive decision-making, sense disambiguation, sarcasm detection, and narrative understanding, as these require advanced kinds of reasoning, e.g., commonsense reasoning and causal reasoning, which have not been emulated satisfactorily yet. The Seven Pillars for the future of AI (<https://sentic.net/7-pillars-for-the-future-of-ai.pdf>) address these shortcomings and pave the way for more efficient, scalable, safe and trustworthy AI systems.

## Invited Speaker

### Prof. Tao Cheng

University College London, UK & The Alan Turing Institute, UK

- ❑ Venue: 301 (Level 3 of Alumni House)
- ❑ Time: 10:55-11:25, March 14, 2025 (UTC+8)



*Speech Title: Urban Big Data Analytics: From SpaceTimeAI to SpaceTime GenAI*

**Biography:** Tao Cheng (HDR, PhD, FRGS, FICE, CEng) is a Professor of Geoinformatics in the Department of Civil, Environmental, and Geomatics Engineering at University College London (UCL). She serves as the Theme Lead for Mobility at the Alan Turing Institute and is a member of the College of Experts (CoE) for the Department for Transport, UK. She is also the Founder and Director of UCL SpaceTimeLab ([www.ucl.ac.uk/spacetimelab](http://www.ucl.ac.uk/spacetimelab)), a world-leading research center that leverages SpaceTimeAI to gain actionable insights and foresights from spatio-temporal data for government, business, and society.

Her research interests span AI and Big Data, network complexity, and urban analytics with applications in transport and mobility, safety and security, business intelligence, and natural hazards prevention. She has secured more than £25M in research grants in the UK and EU, collaborating with government and industrial partners in the UK, including Transport for London, the London Metropolitan Police Service, Public Health England, and Arup, among others. She has published over 300 research articles and received numerous international best paper awards. Please refer to <https://profiles.ucl.ac.uk/10774> for further details.

**Abstract:** This talk explores the evolution of urban big data analytics from SpaceTimeAI to SpaceTime Generative AI (ST GenAI), demonstrating how the integration of spatiotemporal modelling, network-based structures, and generative AI is reshaping urban analytics. Traditional SpaceTimeAI has advanced predictive modelling in urban systems, with applications in transport, mobility, and crime prevention. However, ST GenAI goes beyond prediction to generation—"Models Here and Now, Insights Everywhere and Beyond."

We will showcase advancements in transformer-based fusion of "Big" and "Small" data, graph-based deep learning for cross-city prediction, and spatial representation learning using urban Points of Interest (POIs). By incorporating generative AI with space-time dynamics, ST GenAI opens new possibilities for mobility optimisation, infrastructure resilience, and sustainable urban development.

# Invited Speaker



## Senior Assoc. Prof. Jionglong Su Xi'an Jiaotong-Liverpool University (XJTLU), China

- Venue: 301 (Level 3 of Alumni House)
- Time: 11:25-11:55, March 14, 2025 (UTC+8)

*Speech Title: AI-assisted facial analysis in healthcare: From disease detection to comprehensive management*

**Biography:** Dr Jionglong Su is the director of Education and R&D Institute, School of AI and Advanced Computing. He is concurrently the Taicang School Programme Leader in BEng Data Science and Big Data Technology. He holds a PhD in Statistics (Warwick) and a PhD in Automatic Control and Systems Engineering (Sheffield). Before joining XJTLU, he worked for Warwick University, University College London and Nazarbayev University where he was the Maths Head. Dr Jionglong Su has held several key appointments in the Department of Mathematical Sciences, such as the Group Head in Undergraduate Studies and the Programme Director in Financial Mathematics. His research interests include bioinformatics, artificial intelligence, portfolio management and medical image processing. He is the principal investigator and research collaborator in several interdisciplinary research funded by the National Nature Science Foundation of China and State Key Laboratory of Software Architecture, with more than 4.5 million RMB in grant. Dr Jionglong Su actively participates in the university iLead teaching programmes as an instructor for Chinese universities teachers. He was the recipient of the 2017 XJTLU Outstanding Teacher Award. He received the Excellent Advisor Award in the 4th XJTLU Research-Led Learning Competition.

**Abstract:** Medical conditions and systemic diseases often manifest as distinct facial characteristics, making identification of these unique features crucial for disease screening. However, detecting diseases using facial photography remains challenging because of the wide variability in human facial features and disease conditions. The

integration of artificial intelligence (AI) into facial analysis represents a promising frontier offering a userfriendly, non-invasive, and cost-effective screening approach. In this talk, we shall explore the potential of AI-assisted facial analysis for identifying subtle facial phenotypes indicative of health disorders. First, we outline the technological framework essential for effective implementation in healthcare settings. Subsequently, we discuss the role of AI-assisted facial analysis in disease screening. Despite its promise, the adoption of this technology faces several challenges, including privacy concerns, model accuracy, issues with model interpretability, biases in AI algorithms, and adherence to regulatory standards. Addressing these challenges is crucial to ensure fair and ethical use. By overcoming these hurdles, AI-assisted facial analysis can empower healthcare providers, improve patient care outcomes, and enhance global health.

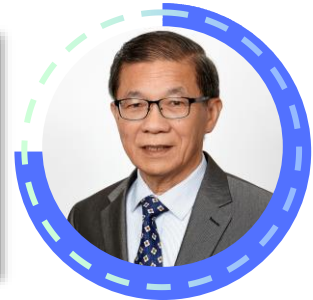


# Invited Speaker

## Assoc. Prof. Cheng Siong Lee (Vincent)

Monash University, Australia

- ❑ Venue: 301 (Level 3 of Alumni House)
- ❑ Time: 11:55-12:25, March 14, 2025 (UTC+8)



*Speech Title: Issues and challenges of Graph Representation Learning in Big Data Paradigm*

**Biography:** Vincent CS Lee is currently an Associate Professor (top Level D professorial), which is equivalent to "Full Professor of North America Academic Scheme" with the Department of Data Science and Artificial Intelligence, Faculty of IT, Monash University in Melbourne, Australia. Lee earned PhD degree from The University of Newcastle, NSW in Australia, Bachelor and Master degrees in EEE, both from the National University of Singapore; MBA from Henley Management College in Oxford, Brunel University, England; BBus (Hons 1st class in Economics & Finance) and MBus (Accountancy), both from RMIT University in Melbourne. He is an elected Fellow of The Institute of Engineers, Australia (FIEAust), a Senior Member of IEEE (USA). Recipient of 2016 Monash University's Dean of IT excellence in Postgraduate Supervision. His research fields are Automated Machine Learning; Generative AI; Multimodal ChatGPT; Signal and Information Processing; Climate Financial Systems; and Educational Data Mining.

**Abstract:** In the big data environment, graph data structure represented in Graph Neural Networks (GNNs) has been commonly deployed. Real world graph data structure, however, suffers from incomplete, noisy, or entirely missing topology, which undermines the performance of traditional GNN. Often, a common practice is to the reliance on complete and accurate labelling in most GNNs methods, which present a significant bottleneck, as labelling is often costly, labour-intensive, or infeasible for large-scale or sensitive datasets. Another critical issue is the high computational cost of self-supervised GNNs, which limits their scalability and applicability in environments requiring quick and efficient computation. Addressing this efficiency challenge is key to enabling the deployment of Graph Representation Learning (GRL) methods in large-scale, resource-constrained scenarios. This challenge underscores the need for methods that can operate without such dependencies, paving the way for unsupervised or semi-supervised approaches in GRL. Furthermore, real-world graphs exhibit diverse structural properties and contextual scales across domains, making fixed-scale methods in self-supervised graph contrastive learning insufficient to fully exploit their rich contextual information. Flexible, multi-scale approaches are necessary to adapt to varying demands of different datasets and enhance their learning potential. This talk discusses the issues and challenges by developing novel GRL method and analytics that function effectively in the presence of incomplete information. Specifically, four critical research questions are explored: (1) How can GRL be conducted without relying on labelling information? (2) How can self-supervised GRL methods be enhanced to incorporate flexible and multi-scale contextual information? (3) How can the computational efficiency of current self-supervised GRL techniques be improved? (4) How can missing or incomplete graph topology be inferred and utilized for effective learning?

# Invited Speaker



## Assoc. Prof. Michele Melchiori

University of Brescia, Italy

- Venue: 301 (Level 3 of Alumni House)
- Time: 13:30-14:00, March 14, 2025 (UTC+8)

*Speech Title: From Discovery to Trust: How can LLMs and Blockchain Empower (Big) Data Services?*

**Biography:** Michele Melchiori is an Associate Professor at the Department of Information Engineering, University of Brescia, where he has been conducting research and teaching activities since 1998. He earned a Ph.D. in Information Engineering from the University of Brescia and a Master's Degree in Computer Science from the University of Milan, Italy.

His research interests include semantic-based technologies, data-driven approaches, information systems, blockchain, web services, and emerging applications such as LLM-RAG for service-based architectures, and data integration. He has worked on various funded competitive research projects in these areas.

He has been part of over 100 program committees of international computer science conferences and has also been involved in the organization of some international conferences. He serves on the editorial board of the Big Data and Cognitive Computing Journal and has been a member of the steering/advisory committees for international conferences on data mining and data semantics.

He co-authored the Best Paper at the 25th International Conference on Advanced Information Systems Engineering (CAiSE 2013) and the Best Paper at the 2nd EAI International Conference on ICT Infrastructures and Services for Smart Cities (IISCC 2017). Additionally, he has been active in industry dissemination, moderating panel discussions on blockchain and cybersecurity.

A partial list of publications can be found here <http://tinyurl.com/mmm-publications>.

**Abstract:** Service-oriented architectures are essential for managing complex digital ecosystems, yet challenges in service discovery, composition, and trust remain open. This talk explores how Large Language Models (LLMs) and Blockchain can empower Big Data Services by enabling automated discovery and composition through Retrieval-Augmented Generation (RAG) while ensuring trust in cooperative processes. We compare resource-oriented and SOA-based approaches to modeling blockchain-based trust-demanding services and showcase LLM-driven architectures for building data service analytics pipelines in industrial applications. Through concrete examples, we illustrate how these technologies enhance transparency, efficiency, and security in articulated cooperative processes based on data services.

# Invited Speaker

## Dr. Armstrong Aboah

North Dakota State University, USA



❑ Zoom ID: 853 1824 0450 <https://us02web.zoom.us/j/85318240450>

❑ Time: 9:30-10:00, March 15, 2025 (UTC+8)



*Speech Title: Driving the Future: Big Data Analytics Transforming Transportation*

**Biography:** I am an Assistant Professor at the North Dakota State University. An ingenious and resourceful Transportation Data Scientist with a proven track record of success in research and hands-on experience developing cutting-edge database solutions, statistical modeling, data products, and computer vision systems aimed at improving transportation system management and operations. Has worked as an architect and application developer on a variety of projects that required the use of data mining and machine learning models to solve large-scale, complex, and difficult transportation problems.

I'm broadly interested in computer vision and machine learning. My research involves visual reasoning, vision and language, image generation, air taxis, naturalistic studies, and autonomous vehicles.

**Abstract:** Big data analytics is transforming transportation by enabling data-driven decision-making, improving safety, and optimizing mobility. The integration of machine learning, real-time analytics, and vast datasets from sensors, GPS, and connected vehicles has enhanced traffic management, autonomous systems, and infrastructure planning. Key applications include congestion prediction, demand forecasting, and intelligent transportation systems that optimize traffic flow, transit operations, and emergency response. Additionally, big data supports infrastructure planning by informing road maintenance and urban mobility strategies. Despite its benefits, challenges such as data privacy, computational scalability, and system integration remain. Ethical concerns, including algorithmic bias and equitable access, also require attention. This presentation examines the opportunities and challenges of big data in transportation, emphasizing the need for advanced analytics, secure data frameworks, and strategic policy development to enhance efficiency, adaptability, and sustainability.

# Session 1

## “Computational Models and Optimization Algorithms”

Chair: Prof. Lam Shao Wei Sean, National University of Singapore, Singapore

**Time: 14:00-15:30, March 14, 2025**

**Venue: 301 (Level 3 of Alumni House)**

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

<b>14:00-14:15</b>	<b>(BAI25-8921)</b> <i>A Noise Redistribution Model for Publishing Time Series of Classification Task</i> <b>Ai Ran</b> , Jinnan He, Xinyue Ren, Wai Kin (Victor) Chan Tsinghua Shenzhen International Graduate School, Tsinghua University, China
<b>14:15-14:30</b>	<b>(BAI25-513-A)</b> <i>A Two-Step Approach for Non-Fungible Token (NFT) Valuation Using Clustering and Hedonic Modeling</i> <b>Geun-Cheol Lee</b> , Hoon-Young Koo, Heejung Lee Konkuk University, South Korea
<b>14:30-14:45</b>	<b>(BAI25-522)</b> <i>Spatiotemporal Framework for Forecasting Energy Consumption in Smart Manufacturing Systems</i> <b>Abdulrazaq Sanni</b> , Sonya Coleman, Dermot Kerr, Justin Quinn Ulster University, United Kingdom
<b>14:45-15:00</b>	<b>(BAI25-533)</b> <i>A Depression Severity Prediction Model by Handwriting</i> <b>Hiroto Tanabe</b> , Masaomi Kimura Shibaura Institute of Technology, Japan
<b>15:00-15:15</b>	<b>(BAI25-3965A)</b> <i>On factor models for high-dimensional time series data: from the time-varying factor model to its joint estimation</i> <b>Xinyi Ren</b> , Yun Liu, Lianjie Shu University of Macau, Macau, China
<b>15:15-15:30</b>	<b>(BAI25-6236)</b> <i>Event-Driven Crowd Forecasting: Wi-Fi Sensing, Event Schedules, and Weather Data for Foot Traffic Prediction</i> <b>Kurumi Muto</b> , Akihisa Kodate, Noboru Sonehara, Nobuharu Hiruma Tsuda University, Japan

**Group Photo & Best Presentation will be awarded during Dinner Banquet**

## Session 2

### “Big Data Analysis, Management and Application”

Chair: Prof. Tao Cheng, University College London, UK

**Time: 14:00-15:30, March 14, 2025**

**Venue: 901 (Level 9 of Executive Centre)**

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

<b>14:00-14:15</b>	<b>(BAI25-0675)</b> <i>Calculate or Calculation with Intent to Deceive? — A Critical Examination of the Phenomenon of "Big Data-Enabled Price Discrimination Against Existing Customers"</i> <b>Zhang Yu</b> Northwestern Polytechnical University, China
<b>14:15-14:30</b>	<b>(BAI25-3540)</b> <i>SDN-Based Network Monitoring for Real-Time Metrics and Network Adjustments with Big Data Technologies</i> <b>Vishal M Godi, Hithesh S, Varun Kamath, Arushi Upmanyu, Animesh Giri</b> PES University, India
<b>14:30-14:45</b>	<b>(BAI25-6018)</b> <i>Big Data in Tourism Destination Marketing Practices: The Case of Morocco</i> <b>Saad Ajdahim, Aziz Hmioui</b> Sidi Mohamed Ben Abdellah University, Morocco
<b>14:45-15:00</b>	<b>(BAI25-8276)</b> <i>A Lightweight Blockchain-Based Fair Trading Framework Combined with Lazy Dispute Accountability for Cloud Big Data Storage</i> <b>Chen Li, Chih Hung Wang</b> National Chiayi University, Taiwan
<b>15:00-15:15</b>	<b>(BAI25-8512)</b> <i>A Multi-Level Confidence LSTM Framework for Cultural Participation Prediction: Evidence from Regional Government Big Data Analytics in Taiwan</i> <b>Jhe-Wei Lin, Huai-Wei Lo, Sheng-Wei Lin</b> National Yunlin University of Science and Technology, Taiwan
<b>15:15-15:30</b>	<b>(BAI25-6499)</b> <i>Data Driven Retail Recommendations: A Study on Multi-Aspect Features for Enhanced Decision Making</i> <b>Arpita Bhattacharjee, Ting Choo Yee</b> Multimedia University, Cyberjaya, Malaysia

**Group Photo & Best Presentation will be awarded during Dinner Banquet**

## Session 3

### “Machine Learning Models and Algorithms”

**Chair: Assoc. Prof. Cheng Siong Lee (Vincent), Monash University, Australia**

**Time: 14:00-15:30, March 14, 2025**

**Venue: 902 (Level 9 of Executive Centre)**

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

<b>14:00-14:15</b>	<p><b>(BAI25-8431)</b> <i>Decentralizing Machine Learning with Blockchain: A Review</i>  <b>Anupa Perera</b>, Sharmilan Somasundaram                      Informatics Institute of Technology, Sri Lanka</p>
<b>14:15-14:30</b>	<p><b>(BAI25-8878)</b> <i>Applying Machine Learning And Ensemble Learning in Research of Predicting Orthopedic Surgery Duration</i>  <b>Tan-Yun Tsai</b>, Mei-Hua Yu, Li-Ling Wang, Po-Chou Shih                      National Yunlin University of Science and Technology, Taiwan</p>
<b>14:30-14:45</b>	<p><b>(BAI25-521)</b> <i>Predicting Discretionary Accrual: A Comparison between MD&amp;A and Conference Call Scripts</i>  <b>Yu-Feng Hsu</b>, Yi-Chen Huang                      National Chung Cheng University, Taiwan</p>
<b>14:45-15:00</b>	<p><b>(BAI25-529)</b> <i>Efficient CNN Neural Architecture Search Using Multi-Layered Population Structure</i>  <b>Kazuki Yabuuchi</b>, Naoki Mori                      Osaka Metropolitan University, Japan</p>
<b>15:00-15:15</b>	<p><b>(BAI25-572)</b> <i>Efficient Neural Representations for Videos with Motion-aided Quality Enhancement</i>  <b>Lulei Feng</b>, Ronggang Wang                      Peking University, China</p>
<b>15:15-15:30</b>	<p><b>(BAI25-5010)</b> <i>Modeling Sentence Classification: Considering Syntactic Analysis and Position Embedding</i>  <b>Meng Wang</b>, Zhixiong Zhang, Hanyu Li, Boran Li                      National Science Library, Chinese Academy of Science, China</p>

**Group Photo & Best Presentation will be awarded during Dinner Banquet**

## Session 4

### “Digital Image Analysis and Processing Methods”

Chair: Senior Assoc. Prof. Jionglong Su, Xi'an Jiaotong-Liverpool University (XJTLU), China

Time: 15:45-17:45, March 14, 2025

Venue: 301 (Level 3 of Alumni House)

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

15:45-16:00	(BAI25-5050) <i>Recognizing Students' Emotions in Vietnamese Social Media Platforms</i> Thuy-Linh Ng, Phuong-Minh Ngo, Ha Linh T Nguyen, <b>Doan-Dong Nguyen</b> , Thi-Oanh Tran International School, Vietnam National University, Vietnam
16:00-16:15	(BAI25-6337) <i>Detection of Interstitial Lung Disease Lesions in CT Images Based on YOLOv8-seg and Atrous Spatial Pyramid Pooling</i> Jie-Ren Chen, Chi-Lun Weng, <b>Po-Chou Shih</b> National Yunlin University of Science and Technology, Taiwan
16:15-16:30	(BAI25-526) <i>LoRA-Based Image Generation for Reflecting Fashion Brand Characteristics Using Stable Diffusion</i> <b>Naoki Koizumi</b> , Naoki Mori Osaka Metropolitan University, Japan
16:30-16:45	(BAI25-532) <i>The Adversarial Defense Method with Illustrated Images in Road Sign Tasks</i> <b>Kanato Takahashi</b> , Masaomi Kimura Shibaura Institute of Technology, Japan
16:45-17:00	(BAI25-5041) <i>Point Cloud Segmentation Using Multi-Scale and Center-Aligned Cylindrical Voxel Features</i> <b>Changjian Tang</b> , Yinghua Zhou Chongqing University of Posts and Telecommunications, China
17:00-17:15	(BAI25-0488) <i>Using ChatGPT as a combined invoice OCR and key-value extractor</i> <b>Nemi Pelgrom</b> , Johan Hagelbäck, Morgan Ericsson, Håkan Grahn, Jonas Nordqvist Linnaeus University, Sweden
17:15-17:30	(BAI25-534) <i>Caption Generation for Garment Image Pair Comparison using Vision-Language Model with Attribute Relationships</i> <b>Kohei Abe</b> , Soichiro Yokoyama, <b>Tomohisa Yamashita</b> , Hidenori Kawamura Hokkaido University, Japan
17:30-17:45	(BAI25-3227) <i>Enhancing Detection and Segmentation of Medical Stones with a YOLO-based Two-Stage Method for Medical Imagin</i> Chen-En Ho, Chi-Lun Weng, <b>Po-Chou Shih</b> National Yunlin University of Science and Technology, Taiwan

Group Photo & Best Presentation will be awarded during Dinner Banquet

## Session 5

### “Anomaly Detection and Security Protection in Modern Integrated Information Systems”

Chair: Prof. Aziz Hmioui, Sidi Mohamed Ben Abdellah University Fez, Morocco

Time: 15:45-17:15, March 14, 2025

Venue: 901 (Level 9 of Executive Centre)

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

15:45-16:00	<b>(BAI25-4479)</b> <i>Secure Recommendation Systems (SeRecSys): Integrating User Privacy, Data Integrity, and Trustworthiness</i> <b>Manoj Kumar</b> , Chaitali Choudhary, May ElBarachi University of Wollongong in Dubai, UAE
16:00-16:15	<b>(BAI25-4552)</b> <i>A Method for Extending Blockchain Anomaly Detection to Token Transactions</i> <b>Tomohiro Ojika</b> , Shin Morishima Toyama Prefectural University, Japan
16:15-16:30	<b>(BAI25-6606)</b> <i>Unsupervised Concept Drift Detection and Adaptation for Hashing Based Multivariate Time Series Anomaly Detection</i> <b>Takehiko Mizoguchi</b> , Yuji Kobayashi NEC Corporation, Japan
16:30-16:45	<b>(BAI25-7430)</b> <i>DRN with Addax Flamingo Optimization and Hashing based Malicious Profile Detection at Hypervisor-Based Environment</i> <b>Naga Seshu Kumar Anumukonda</b> , Rajesh Kumar Yadav, N S Raghava Delhi Technological University, India
16:45-17:00	<b>(BAI25-5615)</b> <i>Enhancing DDoS Attack Detection Through Hybrid Ensemble Machine Learning Technique and Explainable AI</i> <b>Anik Sen</b> , Swee-Huay Heng, Shing-Chiang Tan Multimedia University, Malaysia
17:00-17:15	<b>(BAI25-6095)</b> <i>Enhancing Code Vulnerability Detection Using CodeGraphBERT Deep Learning Techniques</i> <b>Zeinab Shahbazi</b> , Meshkat Mesbah, Seunghoon Woo Halmstad University, Sweden

**Group Photo & Best Presentation will be awarded during Dinner Banquet**



## Session 6

### “Image detection and classification methods”

Chair:

**Time: 15:45-17:15, March 14, 2025**

**Venue: 902 (Level 9 of Executive Centre)**

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

<b>15:45-16:00</b>	<p><b>(BAI25-523)</b> <i>TagVisionNet: A Framework for Improving Chest X-ray Classification via Image-Label Feature Matching</i></p> <p><b>Yuning Shi</b>, Masaomi Kimura Shibaura Institute of Technology, Japan</p>
<b>16:00-16:15</b>	<p><b>(BAI25-5448)</b> <i>PCB Defect Detection Using Deep Learning: A Comparative Performance Analysis</i></p> <p><b>Ezekias Segun Okupevi</b>, Sonya Coleman, Dermot Kerr, Justin Quinn Ulster University, United Kingdom</p>
<b>16:15-16:30</b>	<p><b>(BAI25-563)</b> <i>Improving Learning Performance: Brightness-Contrast Effects on Fish Classification Models</i></p> <p><b>Maethinee Sognthai</b> King Mongkut’s Institute of Technology Ladkrabang, Thailand</p>
<b>16:30-16:45</b>	<p><b>(BAI25-559)</b> <i>MPNet: Boosting Infrared and Visible Image Fusion via Modality Adaptation and Phase Alignment</i></p> <p><b>Jun Dan</b>, Tao Jin, Hao Chi, Shunjie Dong Zhejiang University, China</p>
<b>16:45-17:00</b>	<p><b>(BAI25-527)</b> <i>A novel lightweight Two-Level Edge-Enhanced Blind Image Super-Resolution Network</i></p> <p><b>Yunxiang Peng</b>, Chunling Yang South China University of Technology, China</p>
<b>17:00-17:15</b>	<p><b>(BAI25-5617)</b> <i>Machine Learning for Child Face Detection: A Dual-Module Behavior Based Training Approach</i></p> <p><b>Somyot Kaitwanidvilai</b>, Nuttawat Khongbamphen King Mongkut's Institute of Technology Ladkrabang, Thailand</p>

**Group Photo & Best Presentation will be awarded during Dinner Banquet**

# Session 7

## “Model-based Data Analysis and Data Management”

Chair: Assoc. Prof. Michele Melchiori, University of Brescia, Italy

**Time: 9:00-10:30, March 15, 2025**

**Venue: 901 (Level 9 of Executive Centre)**

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

<b>9:00-9:15</b>	<b>(BAI25-2501A)</b> <i>Bibliometric analysis of Carotid Plaque Treatment Based on Literature Data Mining</i> <b>LI Peng</b> , LI Yan, CUI Xiao-yun, LIN Qian Dongzhimen Hospital Beijing University of Chinese Medicine, China
<b>9:15-9:30</b>	<b>(BAI25-3158)</b> <i>Improving the Quality of the B+-tree based on the MapReduce Framework</i> <b>Mai Anh Duy</b> , Tran Phu Tho, Huynh Cong Viet Ngu FPT University, Vietnam
<b>9:30-9:45</b>	<b>(BAI25-3801)</b> <i>Preserving Privacy in Wearable Devices: A Framework for Sensitive Activity Data Protection with Utility Retention</i> <b>Nattatorn Chuensangarun</b> , Prapaporn Rattanamatrong, Wanida Putthividhya Thammasat University, Thailand
<b>9:45-10:00</b>	<b>(BAI25-4425A)</b> <i>Progress and Recommendations in Data Ethics Governance: A Transnational Analysis Based on Data Ethics Frameworks</i> <b>QIU Yan-rui</b> , HU Zhi-min Peking Union Medical College, China
<b>10:00-10:15</b>	<b>(BAI25-9645)</b> <i>Self-Care Problems Classifications with SCADI Dataset: The Comparisons of Experimental Results</i> Sureena Matayong, <b>Akmal Benhawan</b> , Teeradej Phetkaew Prince of Songkla University, Thailand
<b>10:15-10:30</b>	<b>(BAI25-3597)</b> <i>A New Construction Method for B+-tree Data Structure with GPGPU</i> <b>Nguyen Minh Tri</b> , Khuu Trong Quan, Huynh Cong Viet Ngu FPT University, Vietnam

**Group Photo & Best Presentation Award**

## Session 8

<b>“Social Network and Multimedia Application Technology”</b>	
<b>Chair: Dr. Shin Morishima, Toyama Prefectural University, Japan</b>	
<b>Time: 10:45-12:00, March 15, 2025</b>	<b>Venue: 901 (Level 9 of Executive Centre)</b>
Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.	
<b>10:45-11:00</b>	<b>(BAI25-536)</b> <i>Detecting Youth Mental Health Issues on Social Media with Deep Learning</i> Anh Que Thi Vu, Trang Thi Do, Diep Ngoc Bui, <b>Oanh Thi Tran</b> International School, Vietnam National University, Vietnam
<b>11:00-11:15</b>	<b>(BAI25-1515)</b> <i>Retweet Link Prediction in Social Networks through Enhanced Edge Feature Engineering</i> Raghavendra Kulkarni, <b>Giridhar Pamisetty</b> , Subbareddy Batreddy, Priya Verma, Ch Sobhan Babu Indian Institute of Technology Hyderabad, India
<b>11:15-11:30</b>	<b>(BAI25-3137)</b> <i>Exploring Protest-Related Social Network Dynamics: Combining the Power of Big-Data with Agent-Based Simulation</i> <b>Laurens H.F. Müter</b> , Christof van Nimwegen, Remco C. Veltkamp Utrecht University, Nationaal Politielab AI, the Netherlands
<b>11:30-11:45</b>	<b>(BAI25-545)</b> <i>JaccDiv: A Metric and Benchmark for Quantifying Diversity of Generated Marketing Text in the Music Industry</i> <b>Anum Afzal</b> , Alexandre Mercier and Florian Matthes Technical University of Munich, Germany
<b>11:45-12:00</b>	<b>(BAI25-9137A)</b> <i>Clustering and multidimensional evolution analysis of hot topics in online public opinion about energy companies—A case study of Sina Weibo</i> <b>Liu Chun</b> , Haoran Mao, Jiakun Wang, Jiaen Shangguan China University of Petroleum (East China), China
<b>Group Photo &amp; Best Presentation Award</b>	

## Session 9

<b>“Language Models and Natural Language Processing”</b>	
<b>Chair: Prof. Akihisa Kodate, Tsuda University, Japan</b>	
<b>Time: 13:00-14:15, March 15, 2025</b>	<b>Venue: 901 (Level 9 of Executive Centre)</b>
Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.	
<b>13:00-13:15</b>	<b>(BAI25-1926)</b> <i>Knowledge Discovery from Scholarly Resources using Large Language Model and Knowledge Graph</i> <b>Jiao Li</b> , Guojian Xian, Yongwen Huang, Tan Sun Agricultural Information Institute of CAAS, China
<b>13:15-13:30</b>	<b>(BAI25-515)</b> <i>Fine-Tuning Vision-Language Model for Automated Engineering Drawing Information Extraction</i> <b>Muhammad Tayyab Khan</b> , Lequn Chen, Ye Han Ng, Wenhe Feng, Nicholas Yew Jin Tan, Seung Ki Moon Nanyang Technological University, Singapore
<b>13:30-13:45</b>	<b>(BAI25-5741)</b> <i>Iterative Prompting with Persuasion Skills in Jailbreaking Large Language Models</i> <b>Shih-Wen Ke</b> , Guan-Yu Lai, Guo-Lin Fang, Hsi-Yuan Kao National Central University, Taiwan
<b>13:45-14:00</b>	<b>(BAI25-5047-A)</b> <i>An LLM-based Approach for Similar Patent Drawing Retrieval: Towards Efficient Technology Trend Analysis</i> <b>Kazuhisa Fukuzawa, Tokimasa Goto</b> Aichi Institute of Technology, Japan
<b>14:00-14:15</b>	<b>(BAI25-525)</b> <i>Correlate-MobileCap: A Framework for Diagnostic Report Generation Using Lesion and Disease Information</i> <b>Yuning Shi</b> , Masaomi Kimura Shibaura Institute of Technology, Japan
<b>Group Photo &amp; Best Presentation Award</b>	

# Session 10

## “Next-generation Artificial Intelligence Technology and Applications”

Chair: Assoc. Prof. Christopher Harris, University of Northern Colorado, USA

**Time: 14:30-16:00, March 15, 2025**

**Venue: 901 (Level 9 of Executive Centre)**

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

<b>14:30-14:45</b>	<b>(BAI25-E1-A)</b> <i>Overcoming Challenges and Developing a Strategic BluePrint for Integrating Generative AI in Business Operations</i> <b>Giulio Marchena Sekli</b> , Ivan De La Vega CENTRUM Católica Graduate Business School, Perú
<b>14:45-15:00</b>	<b>(BAI25-511)</b> <i>Quantum AI enhanced blockchain Security for Drug Discovery</i> <b>Don Roosan</b> , Tiffany Khou, Brian Pham, Yawen Li, Md Rahatul Ashakin, Hasiba Mashed Khan, Rubayat Khan, Mohammad Rifat Haider Merrimack College, USA
<b>15:00-15:15</b>	<b>(BAI25-516)</b> <i>AI in Medical Information Literacy Education:the Chanllenges and Responses</i> Li Yong, <b>Li Hongmei</b> The Library of Kunming Medical University, China
<b>15:15-15:30</b>	<b>(BAI25-512)</b> <i>AI-Generated Content for Project Proposal Development in Wenxin Yiyao and 360 Intelligent Brain</i> <b>Tao Wei</b> , Jia Hu, Qin Huang, Xia Zhao, Wei Liu, Ruihong Zhang Kunming Medical University, China
<b>15:30-15:45</b>	<b>(BAI25-E230)</b> <i>Knowledge mapping and evolutionary analysis: A case study in unmanned vehicle technology</i> <b>Xiao Tan</b> , Hui Li, Ting Zhang, Guiquan Xi, Xiaohong Jin, Shu Chen Beijing Academy of science and technology, China
<b>15:45-16:00</b>	<b>(BAI25-519)</b> <i>Analyses of Answers Provided by Artificial Intelligence to Questions in Evidence-Based Medicine: A Case Study for Wenxin Yiyao and 360 Intelligence Brain</i> <b>Xia Zhao</b> , Huang Qin, Wang Huaping, Wei Tao The Library of Kunming Medical University, China

**Group Photo & Best Presentation Award**

# Session 11

## “AI based Model Design, Algorithm Optimization and Intelligent Application Technology”

Chair: Assoc. Prof. Yinghua Zhou, Chongqing University of Posts and Telecommunications, China

Time: 10:00-11:45, March 15, 2025

Zoom ID: Room A: 853 1824 0450

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

10:00-10:15	<p><b>(BAI25-8202)</b> <i>Automated Live Migration of Containerised Applications in Multi Cloud with Algorithm for Selection of Cloud Provider</i>  <b>Abhiraj</b>, A Sakthe Balan, Adithya Ganesh, Advay Agrawal, Prafullata K Auradkar                      PES University, India</p>
10:15-10:30	<p><b>(BAI25-E09)</b> <i>Recommender Systems: Solving cold start using collaborative distance based Siamese Network</i>  <b>Sachine More</b>                      Dollar General Corporation, United States</p>
10:30-10:45	<p><b>(BAI25-555)</b> <i>Analysis of Artificial Intelligence Applications in Electric Power Systems</i>                      Weiqiang Qu, Yuliang Zhu, Chen Cao, Yanzhi Zhang, Zeyang Chen, Xinyao Wang, Chengdong Liu, <b>Wei Li</b>, Shenghui Shi                      Beijing University of Chemical Technology, China</p>
10:45-11:00	<p><b>(BAI25-8184)</b> <i>Artificial Intelligence For Factor Investing: A Comprehensive Survey</i>  <b>Qi Wu</b>, Anasse Bari, Rasmika Billa                      New York University, United States</p>
11:00-11:15	<p><b>(BAI25-3470)</b> <i>Integrating Travel Behavior Forecasting and Generative Modeling for Predicting Future Urban Mobility and Spatial Transformations</i>  <b>Eugene Denteh</b>, Andrews Danyo, Joshua K. Asamoah, Blessing Agyei Kyem, Twitchell Addai, Armstrong Aboah,                      North Dakota State University, United States</p>
1:15-11:30	<p><b>(BAI25-5540)</b> <i>Predicting financial distress using Cosine Similarity un-der-sampling method: An empirical analysis based on Chinese listed companies</i>  <b>Yalan ZHOU</b>, Jie MIAO, Yan FENG                      Army Logistics Academy, China</p>
11:30-11:45	<p><b>(BAI25-8260)</b> <i>Foundation Model for Pavement Defect Detection: A Big Data-Driven Approach to Robust Road Condition Monitoring</i>                      Blessing Agyei Kyem, Joshua Kofi Asamoah, Twitchell Addai, <b>Eugene Denteh</b>, Andrews Danyo, Armstrong Aboah, North Dakota State University, United States                      North Dakota State University, United States</p>

**Group Photo & Best Presentation Award**

# Session 12

## “Big Data Architecture and Analysis”

Chair: Dr. Surena Matayong, Prince of Songkla University, Thailand

**Time: 10:00-12:00, March 15, 2025**

**Zoom ID: Room B: 896 6537 7897**

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

<b>10:00-10:15</b>	<b>(BAI25-E407)</b> <i>Analysis on the Evolution of Employment Population Residential Density in Urban Employment Centers Based on a Spatio Temporal Big Data Method</i> <b>Jining Zhang</b> , Kang Wang, Duanqiang Zhai Tongji University, China
<b>10:15-10:30</b>	<b>(BAI25-0425)</b> <i>Survey of Big Data Architectures and Frameworks on Kubernetes: Challenges, Solutions, and Future Directions</i> <b>Prashanth Josyula, Anant Kumar</b> , Gangadharayya Hiremath Salesforce, USA
<b>10:30-10:45</b>	<b>(BAI25-1383)</b> <i>Is Big Data-Driven Digital Inclusive Finance the Key to Boosting Corporate Innovation? An Empirical Analysis</i> Qianye Liu, <b>Xiaoyan Li</b> Nanjing University, China
<b>10:45-11:00</b>	<b>(BAI25-3510)</b> <i>Big Data Architecture for Large Organizations</i> <b>Fathima Nuzla Ismail</b> , Abira Sengupta, Shanika Amarasoma State University of New York at Buffalo, USA
<b>11:00-11:15</b>	<b>(BAI25-6765)</b> <i>Geospatial Big Data Analytics for Urban Construction Suitability: A Large-Scale Visualization Approach in the Yangtze River Delta</i> Duanqiang Zhai, Jian Zhuo, <b>Yanyun Mao</b> Tongji University, China
<b>11:15-11:30</b>	<b>(BAI25-8414)</b> <i>Big Data Based House Fire Detection and Alarm System</i> <b>Lin Wai Yan</b> , Nay Myo Aung Info Myanmar College, Myanmar
<b>11:30-11:45</b>	<b>(BAI25-2047)</b> <i>Big Data Analysis for Log Returns of Singapore Exchange Ltd (SGX: S68. SI)</i> <b>Sivasamy R</b> University of Botswana, Botswana
<b>11:45-12:00</b>	<b>(BAI25-2087)</b> <i>Webometrics Analysis of Citizens' Online Participation in Draft Law Consultations in China: A Case Study of the Law on the Protection of Women's Rights and Interests</i> <b>Han Zhengqi</b> , Liu Hongxia China University of Political Science and Law, China

**Group Photo & Best Presentation Award**

# Session 13

## “Multimodal Language Analysis and Emotion Recognition”

Chair:

**Time: 13:30-15:30, March 15, 2025**

**Zoom ID: Room A: 853 1824 0450**

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

<b>13:30-13:45</b>	<b>(BAI25-0606)</b> <i>Social Media Analysis for Mental Health Using Large Language Models</i> Nirmal Bhandari, <b>Sujing Wang</b> Lamar University, USA
<b>13:45-14:00</b>	<b>(BAI25-5270)</b> <i>Towards Safer Moderation: Evaluating LLM Moderators Through a Unified Benchmark Dataset and Advocating a Human-First Approach</i> <b>Naseem Machlovi</b> , Mariam Sleki, Innocent Ababio, Ruhul Amin Fordham, United States
<b>14:00-14:15</b>	<b>(BAI25-2165)</b> <i>DMCP: A Novel Debiasing Method Based on Contrastive Learning and Prompt Learning</i> <b>Haoyu Liang</b> , Junheng He, Jianghao Lin, Nankai Lin, Dong Zhou, Aimin Yang Guangdong University of Technology, China
<b>14:15-14:30</b>	<b>(BAI25-4232)</b> <i>Research on Entity Relation Extraction Based on Transformer Pre-trained Model</i> Ceyuan Liang, Zhaoying Chai, Lin Zhuo, Lin Yin, <b>Shenghui Shi</b> Beijing University of Chemical Technology, China
<b>14:30-14:45</b>	<b>(BAI25-6046)</b> <i>ESG news sentiment, liquidity, and stock returns: Evidence from China</i> <b>Yong Li</b> , Xueyuan Xu, Weifeng Zhu Guangdong University of Science and Technology, China
<b>14:45-15:00</b>	<b>(BAI25-553)</b> <i>A Novel Biomedical Named Entity Recognition Model Integrating BioBERT-BiLSTM-CRF Structure and GELUs Optimization</i> <b>Weiwen Ren</b> , Tao liu, Lin Zhuo, Shenghui Shi Beijing University of Chemical Technology, China
<b>15:00-15:15</b>	<b>(BAI25-9093)</b> <i>Sentiment-Enhanced Opinion Sentence Recognition Using AgriBERT-SentiDPCNN and Multi-Opinion Summarization via LLMs for Agricultural Scientific Literature</i> <b>Mengting Zhang</b> , Yajiao Wang, Yufei Wang, Zhixiong Zhang University of Chinese Academy of Sciences, China
<b>15:15-15:30</b>	<b>(BAI25-3798)</b> <i>Streamlining Research Information Management with Large Language Models: Automation, Analysis, and User-Centric Solutions</i> <b>Otmane Azeroual</b> German Centre for Higher Education Research and Science Studies (DZHW), Germany

**Group Photo & Best Presentation Award**



# Session 14

## “Data Privacy and Security Management”

Chair: Prof. Sivasamy R, University of Botswana, Botswana

**Time: 13:30-15:15, March 15, 2025**

**Zoom ID: Room B: 896 6537 7897**

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

<b>13:30-13:45</b>	<b>(BAI25-5437)</b> <i>Enhancing Data Quality and Integrity Through MDM in Distributed Systems</i> <b>Navadeep Vempati</b> , Balaji Thadagam Kandavel, Naga Harini Kode Independent researcher, MI, USA
<b>13:45-14:00</b>	<b>(BAI25-3231)</b> <i>Data Integration and Knowledge Graph Visualization for the Dispersion of Financial Data: A Case Study in Taiwan</i> Yin-Ying Chien, <b>Jian-An Wang</b> AcuSense Biomedical Technology Corp., Taiwan
<b>14:00-14:15</b>	<b>(BAI25-4872)</b> <i>Practical Exploration of Real Estate Valuation Course Based on Multi-Source Data Analysis: Coordinated Development of Urban Attraction and Commercial Housing Price Level</i> Zhu Lifang, <b>Duan Xiaoli</b> , Liu Yang, Li Haoyu, Chen Yang Wuhan University, China
<b>14:15-14:30</b>	<b>(BAI25-0120)</b> <i>Frameworks for Privacy and Governance: Safeguarding Health Data in Compliance with HIPAA Regulations</i> <b>Dorababu Nadella</b> Independent Researcher, Cumming, GA, USA
<b>14:30-14:45</b>	<b>(BAI25-7269)</b> <i>Quantifying technological field switching dynamics of enterprises</i> <b>Yi Zhang</b> , Shuqi Xu, Linyuan Lü University of Electronic Science and Technology of China, China
<b>14:45-15:00</b>	<b>(BAI25-7471)</b> <i>Feature Extraction and Similarity Search of Gait Data Using Tensor Decomposition</i> <b>Kazuki Nishimura</b> , Akio Ishida, Jun Murakami, Naoki Yamamoto National Institute of Technology, Kumamoto College, Japan
<b>15:00-15:15</b>	<b>(BAI25-6839)</b> <i>Leveraging QLC ZNS SSD for Caching High-Volume Tiny Objects</i> <b>Haolan Ouyang</b> Sun Yat-sen University, China

**Group Photo & Best Presentation Award**

# Session 15

## “Machine Learning Theory and Computation”

Chair: Dr. Huynh Cong Viet Ngu, FPT University, Vietnam

**Time: 15:45-17:45, March 15, 2025**

**Zoom ID: Room A: 853 1824 0450**

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

<b>15:45-16:00</b>	<p><b>(BAI25-1735)</b> <i>A Cost-Aware Multi-Cloud Scheduling Framework for Machine Learning Operations</i>  <b>Sridhar Kumar Irujolla</b>, Ganapathi Yeleswarapu, H N V Sai Murali Krishna Tungala, Mahesh Shivnatri                      IEEE, Dallas Chapter, USA</p>
<b>16:00-16:15</b>	<p><b>(BAI25-2119)</b> <i>A Neural Network Approach for Public Trip Frequency Dynamics Across Pandemic Stages in a Component City in Luzon, Philippines</i>  <b>Laila Marie A. Lavandero</b>, Dante L. Silva, Kevin Lawrence M. de Jesus                      Mapua University, Philippines</p>
<b>16:15-16:30</b>	<p><b>(BAI25-2422)</b> <i>Machine learning methods for crop pest incidence prediction: an example of greenhouse Tuta absoluta (Meyrick)</i>  <b>Xin Chen</b>, Linwang Gao, Zuorui Shen                      China Agricultural University, China</p>
<b>16:30-16:45</b>	<p><b>(BAI25-5610)</b> <i>Nonlinearity Between Random Time Series And Time Series Driven By Weierstrass-Mandelbrot Function</i>  <b>Li Zhang</b>                      Shandong University, China</p>
<b>16:45-17:00</b>	<p><b>(BAI25-562)</b> <i>Attention-driven Automatic speech Recognition: Comparative Analysis of Attention Mechanisms in RNN Architectures</i>  <b>Yue zhu</b>, Yancong Deng                      Shanghai University of Engineering Science, China</p>
<b>17:00-17:15</b>	<p><b>(BAI25-E0214)</b> <i>A Deep-Learning-Powered Pipeline for EEG-Based Dyslexia Detection Achieving ~94.66% Accuracy</i>  <b>Nora Fink</b>                      Co-CEO ever-growing GmbH, Independent Research Dyslexia99, Burghausen, Germany</p>
<b>17:15-17:30</b>	<p><b>(BAI25-7771)</b> <i>Unified Anchor Graph Learning in Multi-View Clustering with Global and Local Integration</i>                      Xianxian Xia, <b>Dong Huang</b>, Chaobo He                      South China Agricultural University, China</p>
<b>17:30-17:45</b>	<p><b>(BAI25-5425)</b> <i>FineRAG: Instruction-Tuned AI with Optimized RAG and Self-Evaluation</i>  <b>Mahima Arora, Fasal Shah</b>                      Red Hat India Pvt. Ltd., India</p>

**Group Photo & Best Presentation Award**

# Session 16

## “Advanced Image Analysis and Computational Models”

Chair: Prof. Shobha G, RV University, India

**Time: 15:45-17:30, March 15, 2025**

**Zoom ID: Room B: 896 6537 7897**

Notes: The schedule of each presentation is for reference only. Presenters are required to attend the whole session, in case there may be some changes on conference day. Please join in the room 5-10 minutes earlier.

<b>15:45-16:00</b>	<b>(BAI25-4469)</b> <i>Divide and Compute: Distributed Model Offloading for Computation</i> Akhilesh M K, <b>Abhinav R Bharadwaj</b> , Nandan N Prabhu, Abhiram H A, Prafullata K Auradkar PES University, India
<b>16:00-16:15</b>	<b>(BAI25-0893)</b> <i>Mining Frequent Subgraphs in Temporal Quadruple Knowledge Graphs</i> <b>Jianjun Cao</b> , Peihao Wang, Nianfeng Weng, Zhen Yuan, Haoran He, Wenlong Hu The Sixty-Third Research Institute, National University of Defense Technology, China
<b>16:15-16:30</b>	<b>(BAI25-2727)</b> <i>Faster-Neus2: Neural Surface Representation Based on Cohesive Backpropagation Computation and Optimal Frame Selection</i> <b>Weijian Zhang</b> , Shuguang Tao Wuhan University of Technology, China
<b>16:30-16:45</b>	<b>(BAI25-569)</b> <i>Joint Extraction Method of Entity Relationships Based on Multi-level Annotation Framework</i> <b>Wenbin Shi</b> , Zhaoying Chai, Lin Yin, Shenghui Shi Beijing University of Chemical Technology, China
<b>16:45-17:00</b>	<b>(BAI25-560)</b> <i>PyraFuseNet: Adaptive Dual-Path Pyramid Fusion Network for Resource-Efficient Image Recognition</i> <b>Prathamesh Devadiga</b> , Kundhavai KR PES University, India
<b>17:00-17:15</b>	<b>(BAI25-528)</b> <i>Reasoning Is All You Need: Evaluating LLMs in Food Additive Classification and Explanation</i> <b>Hesam Saki</b> , Saba Eshraghi, Peyman Sar Sangi, Anahita Zarein, Haelthy B.V The Netherlands; Tehran University, Iran
<b>17:15-17:30</b>	<b>(BAI25-557)</b> <i>Mobile Augmented Reality Application in Museums: A Catalyst for Impulse Buying of Cultural and Creative Products</i> Jingna Wang, <b>Zhuoxuan Fu</b> , Yini Li, Shuangshuang Wu, Mingguang Liu Nankai University, China

**Group Photo & Best Presentation Award**

## Posters

**(BAI25-1112A)** *Improvement of Bayesian Personalized Ranking method using AWSGLD algorithm*

**Ah-Rim Joo**, Sooyoung Cheon

Korea university, Korea

**(BAI25-7512A)** *Robust and Sparse PCA with the Huber Loss and a Non-Convex Penalty*

**Yun Liu**, Lianjie Shu, Xinyi Ren

University of Macau, Macau, China

**(BAI25-9823)** *Time Series Feature Redundancy Paradox: An Empirical Study Based on Mortgage Default Prediction*

**Chengyue Huang**, Yahe Yang

University of Iowa, USA

# Delegates

- ✧ Subhojit Ghosh, Akamai, India
- ✧ Hyeon S. Son, Seoul National University, South Korea
- ✧ Guojian Xian, Agricultural Information Institute of CAAS, China
- ✧ YOUHYUN PARK, Yonsei Wonju College of Medicine, South Korea
- ✧ Hidetomo Kaneyama, RIKEN, Japan
- ✧ Varun Kamath, PES University, India
- ✧ Hithesh S, PES University, India
- ✧ Shin Morishima, Toyama Prefectural University, Japan
- ✧ Akihisa Kodate, Tsuda University, Japan
- ✧ Chakkaphat Chamnanphan, Mae Fah Luang University, Thailand
- ✧ Aziz Hmioui, Sidi Mohamed Ben Abdellah University, Morocco
- ✧ Taisho Sasada, Nara Institute of Science and Technology, Japan
- ✧ Liting Hu, UCSC, USA
- ✧ Jeffery Vavier Allan, Nazareth University, United States
- ✧ Bing Zheng, Lanzhou University, China
- ✧ Prof. Dr.-Ing. Thorsten Benkner, FH Aachen University of Applied Sciences, Germany
- ✧ Ian Rodgers, Oxford University, United Kingdom
- ✧ Naoki Mori, Osaka Metropolitan University, Japan
- ✧ Ting Zhang, Beijing Academy of science and technology, China
- ✧ Hui Li, Beijing Academy of science and technology, China
- ✧ Saba Eshraghi, Tehran University, Iran

