The 13TH International Conference on Behavioural and Social Computing

Conference Handbook



Bangkok, Thailand

October 26-28, 2026

Guideline

Welcome all leaders and researchers to **the 13th International Conference on Behavioural and Social Computing (BESC).** For your convenience during the conference, please pay attention to the following concerns:

Participation

Venue: The Berkeley Hotel Pratunam Bangkok

Address: 559 Ratchaprarop Rd, Makkasan, Ratchathewi, Bangkok 10400, Thailand

Traffic to The Berkeley Hotel Pratunam Bangkok

From Suvarnabhumi Airport

Limousine Taxi/ Grab - approximately 25 - 35 minutes (300-500 THB)
Airport Rail Link (ARL) - approximately 45 - 60 minutes (60 THB)
1. Take ARL from Suvarnabhumi Airport (BKK) to Rachaprarop Station
2. Walk 750 metres (10 minutes)

From Don Mueang Airport

Limousine Taxi/ Grab - approximately 20 - 35 minutes (300-400 THB)
Public transport - approximately 60 minutes (50 THB)
1. Take A3 bus from Don Mueang Airport (DMK) to Indra Square Pratunam
2. Take a short walk (450 m) from Indra Square Pratunam to the hotel



From Suvarnabhumi Airport



From Don Mueang Airport

Welcome from the BESC 2026 Program Committee

As the Program Chairs of the 13th International Conference on Behavioural and Social Computing (BESC 2026), we are delighted to welcome you to Bangkok, Thailand, for the conference taking place on 26–28 October 2026.

BESC brings together researchers and practitioners across artificial intelligence, computational social sciences, natural language processing, business and marketing, and behavioural and psychological sciences. The conference provides a forum for sharing recent advances, exchanging interdisciplinary perspectives, and exploring new directions in understanding human behaviour and social interactions through computing. This year's program continues this tradition, with contributions addressing both foundational questions and emerging opportunities at the intersection of computing, society, and human behaviour. After the dedicated work of the Program Committee, 99 papers were accepted for presentation at the conference.

We extend our sincere gratitude to the Program Committee members and reviewers for their dedication, expertise, and thoughtful evaluations. Their efforts have been essential to maintaining the scientific quality of the conference and shaping an engaging technical program. Their constructive feedback has also helped authors strengthen their work and refine the presentation of their research.
We sincerely thank the Steering Committee Chair, Guandong Xu, and the General Chairs, Jianquan Liu, Supavadee Aramvith, and Yidong Li, for their guidance and support in organizing BESC 2026. We also extend our appreciation to the Publication Chairs for preparing the conference proceedings, and to the track chairs, session and workshop organizers, and all members of the Organizing Committee for their dedication and valuable contributions.

Above all, we thank the authors and participants, whose research, ideas, and active engagement are at the heart of the conference. Alongside the main track oral and poster presentations, the program includes keynote talks, special sessions, workshops, tutorials, industry and demonstration activities, a panel discussion, and an Early Career Academic Forum. We hope these activities will inspire productive discussions, encourage new collaborations, and strengthen connections across our diverse research community.

We wish you a rewarding conference and an enjoyable stay in Bangkok.

October 2026

Program Chairs of BESC 2026

Jianwei Zhang, Iwate University, Japan
Krisana Chinnasarn, Burapha University, Thailand
Yang Chen, Fudan University, China

Organizing Committee

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Extended Abstract Track Chairs

· Xiaokun Wang, University of Science & Technology Beijing, China

· Elena Vlahu-Gjorgievska, University of Wollongong, Australia

Industry & Demo Track Chairs

· Xin Li, iFlyTek, China

· Runze Wu, IROOTECH, China

· Zhiyuan Wen, The Hong Kong Polytechnic University, Hong Kong SAR

Tutorial Chairs

· Yajun Yang, Tianjin University, China

· Yang Cao, Institute of Science Tokyo, Japan

Panel Chair

· Tianyong Hao, South China Normal University, China

Early Career Academic Forum Chairs

· Kaize Shi, University of Southern Queensland, Australia

· Yijun Duan, Kyoto Institute of Technology, Japan

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· Thittaporn Ganokratanaa, King Mongkut's University of Technology Thonburi, Thailand

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· Yun Liu, Kyoto Institute of Technology, Japan

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· Xiangguo Sun, Southeastern University, China

Conference Program Overview

Day 1 (October 26)			
9:00-9:45	Tutorial 1	Extended Abstract Track	Interdisciplinary Track
9:45-10:30	Tutorial 2		
10:30-11:00	Coffee Break		
11:00-12:00	Tutorial 3	Special Session 1	Special Session 2
12:00-13:30	Lunch		
13:30-15:30		Special Session 3	Special Session 4
15:30-16:00	Coffee Break		
16:00-16:30	Opening Ceremony		
16:30-17:20	Keynote 1: Prof. Li Xiong		
17:30-18:30	Panel Discussion: Agent Sociality vs. Human Sociality		
19:00-22:00	Reception at Ballroom A		

Day 2 (October 27)			
9:00-10:30	Best Paper Candidate Session (Selected from Full Papers)		
10:30-11:00	Coffee Break		
11:00-12:00	Keynote 2: Prof. Qing Li		
12:00-13:30	Lunch		
13:30-14:30	Full Paper Oral Session 1	Full Paper Oral Session 2	Workshop 1
14:30-15:30			Workshop 2
15:30-16:00	Coffee Break		
16:00-16:50	Keynote 3: Prof. Jun Miyazaki		
17:00-18:50	Early Career Academic Forum		
19:00-22:00	Banquet at Ballroom A		

Conference Program Overview

Day 3 (October 28)			
9:00-10:30	Regular Paper Poster Session / Demo Track	Industry Track	Workshop 3
10:30-11:00	Coffee Break		
11:00-11:50	Keynote 4: Prof. Feng Xia		
12:00-12:30	Closing Ceremony		
12:30-13:30	Lunch		
13:30-20:00	City Tour	Organizing Committee Meeting	

Program Details

Day 1 — Monday, October 26, 2026

09:00-09:45 | Tutorial 1
Room: CHELSEA B
Session Chair: Yajun Yang, Tianjin University, China



Speaker:
Prof. Chenhao Ma
Chinese University of Hong Kong, Shenzhen, China

Bio. Dr. Chenhao Ma is an Assistant Professor at the Chinese University of Hong Kong, Shenzhen. Prior to that, he was a Postdoctoral Fellow at the University of Hong Kong. He received his PhD degree from Department of Computer Science in the University of Hong Kong (HKU) in 2021, advised by Prof. Reynold Cheng. He once was a visiting student in the University of New South Wales (UNSW) in 2019, working with Prof. Xuemin Lin. Till now, he has published more than 40 papers in the areas of database and data mining, including one of four Best of SIGMOD2020 (a world flagship conference in database areas, 4/458), and most of them were published in top-tier conferences and journals (e.g., SIGMOD, PVLDB, KDD, NeurIPS, ICML, ICLR, VLDBJ, TKDE, and TODS). He was awarded the ACM SIGMOD Research Highlight Award 2021. He has served as area chairs / PC members and reviewers for several top conferences and journals (e.g., VLDB, ICDE, KDD, WWW, CIKM, TKDE, and VLDBJ).

Talk: From Networks to Contexts: Exposure and Structure in LLM Social Simulation

Abstract: LLM agents are increasingly used to study opinion formation, information diffusion, and collective behavior. Yet a consequential layer of these simulations often remains implicit: agents do not respond to an interaction network itself, but to the information made visible in their contexts. The same agents and network may therefore produce different outcomes under different exposure mechanisms.

This tutorial presents an exposure-centred view of LLM social simulation, tracing the path from potential interactions to visible evidence, agent updates, and collective outcomes. Communication networks and memory determine what information reaches each agent, while roles, influence, and other structural cues shape how that information is interpreted. Interaction traces and emergent network structures, in turn, reveal how local updates accumulate into collective dynamics.

By treating these components as a continuous process rather than isolated design choices, the tutorial highlights structure as part of the mechanism that produces social behavior. This perspective supports more deliberate simulator design, clearer comparisons across systems, and more reliable conclusions about LLM-based social dynamics.

Program Details

Day 1 — Monday, October 26, 2026

09:45–10:30 | Tutorial 2
Room: CHELSEA B
Session Chair: Yajun Yang, Tianjin University, China



Speaker:
Dr. Blaise Delattre
Institute of Science Tokyo, Japan

Bio. Blaise Delattre is a JSPS Postdoctoral Fellow at the Institute of Science Tokyo, where he works with Prof. Yang Cao. His research focuses on certified robustness, with contributions to Lipschitz-constrained neural networks, randomized smoothing, and robustness guarantees for multimodal and foundation models. He received his PhD in Computer Science from Université Paris-Dauphine PSL in 2025. His work has appeared at ICML, ICLR, AISTATS, ACL, and ECAI, including oral and spotlight papers.

Talk: Beyond Adversarial Examples: Provable Robustness Guarantees for Modern AI Systems

Abstract: AI systems used in behavioural and social computing expose attack surfaces that go far beyond small pixel perturbations. Adversaries may jointly manipulate social-graph links and user features, rewrite prompts, coordinate text-image attacks, poison retrieved documents, or influence the tool returns consumed by an AI agent. This tutorial develops a unified view of adversarial and certified robustness for these settings. Starting from classical adversarial examples, Lipschitz methods, and randomized smoothing, it moves to social graphs, language and multimodal models, and tool-using agents. A central theme is the separability barrier: guarantees for individual channels do not necessarily compose when those channels interact. The tutorial closes with practical limitations and open research problems for trustworthy behavioural and social AI.

10:30–11:00 **Coffee Break**

Program Details

Day 1 — Monday, October 26, 2026

11:00–12:00 | Tutorial 3
Room: CHELSEA B
Session Chair: Yajun Yang, Tianjin University, China



Speaker:
Dr. Longxu Sun
Hong Kong Baptist University, Hong Kong SAR, China

Bio. Dr. Longxu Sun is currently a Postdoctoral Research Fellow in the Department of Computer Science at Hong Kong Baptist University. Her primary research interests lie in community search over complex graphs, interactive graph data mining, and AI-augmented graph data management. Her recent work focuses on interactive graph querying algorithms, agentic community mining, and explainable and verifiable community search. Her research has appeared in venues including VLDB, ICDE, TKDE, the SIGMOD Companion, and so on. She has presented a tutorial at PAKDD 2026 and has served as a program committee member for AAAI, WSDM, PAKDD, and IEEE BigData.

Talk: Community Search over Graphs: Foundations, Recent Advances, and Applications

Abstract: Community search is a key graph query task that finds cohesive communities based on queries, with uses in social network analysis, team building, recommendations, bioinformatics, and fraud detection. Early work centered on dense subgraph models, efficient algorithms, and offline indexing. Recently, research has expanded to include learning-based methods, complex networks, and interactive querying. This tutorial offers a systematic overview of community search in graphs, summarizing foundations, current advances, and future directions. We first present common community models and main algorithms, such as exact and heuristic solutions, pruning, and indexing. Next, we discuss learning-based approaches, including graph neural networks and transformers, and compare them to traditional methods. We then introduce community search in complex graphs, focusing on heterogeneous and multilayer networks. Interactive community search is also covered, enabling user feedback and iterative refinement. Finally, we link these techniques to real-world applications and highlight new opportunities from large language models and graph-based retrieval. This tutorial serves as a guide for researchers and practitioners to understand and develop modern community search methods.

Program Details

Day 1 — Monday, October 26, 2026

09:00–10:30 | Extended Abstract Track

Room: SOMERSET A Session Chair: Shizhuo Deng, Northeastern University, China
Notes: 12 min oral + 3 min Q&A

ID	Title	Authors
EA-1	Waiting Is Not Idle Time: Human Work in AI-Assisted Programming	Fangchen Tian, Zechang Sun, Yinger Liu, and Song Tong
EA-2	Do LLMs Narrate Cultural Values Like Humans? Evidence from Chinese and American Obituaries	Xinyi Tong, Wenqing Zhang, Yingnan Cong, Kaiping Peng, and Song Tong
EA-3	Designing a Behaviourally Informed Human–AI WhatsApp Chatbot for Chronic Low Back Pain Self-Management	Fadi Al Zoubi and Rakhat Shakimbekov
EA-4	Designing and Evaluating Kidney Wise: A Mixed-Methods Usability Protocol for CKD Dietary Self-Management	Modi Alshammari, Khin Than Win, Elena Vlahu-Gjorgievska, and Zaki Abu-Almakarem
EA-5	Exploring the Effects of Avatar Attire Adaptation on User Perceptions of an LLM-Based Chatbot Across Professional Domains	Ziyang Qin, Hui-Shyong Yeo, and Man Wu
EA-6	Measuring, Representing, and Explaining Attitude-Like Systems in Large Language Model Agents: A Doctoral Research Proposal	Aohua Cheng, Song Tong, and Kaiping Peng

09:00–10:30 | Interdisciplinary Track

Room: SOMERSET B Session Chair: Song Tong, Beijing Normal University, China
Notes: 12 min oral + 3 min Q&A

ID	Title	Authors
IT-1	When Rain Falls, Leisure Attention Fades: Evidence from Large-Scale Social Media Language	Haoyuan Tan, Yuhan Zou, and Hao Chen
IT-2	Thematic Structure and Sentiment Features of Post-Event Discourse on Gendered Online Abuse: Evidence from Weibo Comments on Three Selected Cases	Shaonan Shi, Xiwen Wang, and Ting Xue
IT-3	Readbits: A Behavior-Triggered Home Screen Widget for Lightweight Reading	Junxian Lin, Man Wu, and Guanye Shen
IT-4	How Large Language Models Construct Emotional Metaphors: A Human-Centered Study of Controllable Concept Blending	Wenqing Zhang, Anna Mao, Honghong Bai, Xinyi Tong, Kaiping Peng, and Song Tong
IT-5	When Humans Become the Risk: Strategic Dehumanization in AI Decision Delegation	Ying Yang, Song Tong, Xiaojing Gu, and Kaiping Peng
IT-6	Collective Semantic Drift and Emotional Dynamics under Uncertainty	Xingyu Liu and Ting Xue

Program Details

Day 1 — Monday, October 26, 2026

11:00–12:00 | Special Session 1: Impact of AIGC Misinformation

Room: SOMERSET A Session Chair: Lianren Wu, Guangzhou University, China
Notes: 12 min oral + 3 min Q&A

ID	Title	Authors
SS 1-1	A Study on the Configurational Mechanisms of the Impact and Harmfulness of Generative AI-Generated Misinformation (FAIGC) -A Qualitative Comparative Analysis (QCA) Based on 40 Cases	Zixuan Zhang, Jinjie Li, Yujie Wang, and Junqi Wang
SS 1-2	Generative AI Companionship and Preschool Children's Psychological Development: Relational Substitution, Interaction Quality, and Caregiving Boundaries	Xiangqian Li, Shichang Deng, and Nan Shi
SS 1-3	The Effect of AI Labeling on the Spread and Emergency Management of AIGC Misinformation	Lianren Wu, Guofeng Yu, Pukun Yang, Jiakun Song, and Jiayin Qi

11:00–12:00 | Special Session 2: Multimodal Social Computing

Room: SOMERSET B Session Chair: Kaize Shi, University of Southern Queensland, Australia
Notes: 12 min oral + 3 min Q&A

ID	Title	Authors
SS 2-1	Cross-Modal Feature Augmentation for Person Re-identification	Hang Li, Bang Zhang, Qingyuan Yang, Zhibin Yang, Shizhuo Deng, Yu Yang, and Dongyue Chen
SS 2-2	A Multi-Task Model for Long-Term Active Days Prediction	Zhanhua Hu, Jiale Tao, Jiachen Liu, Yumeng Song, Tiancheng Zhang, Yiming Li, Xiao Wang, Po Zhang, and Shengjia Cui
SS 2-3	Dual-Anchor Contrastive Learning for Imbalanced fMRI-Based Parkinson’s Severity Estimation	Yusi Huang, Yan Cong, Jiangnan Xia, Jia Tang, Yichen Lv, Xin Wang, and Yu Yang

12:00–13:30	Lunch	Venue / Room	

Program Details

Day 1 — Monday, October 26, 2026

13:30–15:30 | Special Session 3: Governing AI with AI

Room: SOMERSET A
Session Chair: Haihong E, Beijing University of Posts and Telecommunications, China
Notes: 12 min oral + 3 min Q&A

ID	Title	Authors
SS 3-1	Governing AI with AI in Scholarly Publishing: A Social-Computing Taxonomy of GenAI-Enabled Academic Forgery and Human-in-the-Loop Editorial Review	Muchen Li
SS 3-2	PRISM: Per-Head Random-Walk-Induced Spatial Masks for Latent-Structure Graph Attention	Shihao Li, Fangyu Hao, Yifan Zhu, Jiangfeng Sun, and Meina Song
SS 3-3	Weakly Supervised Knowledge Distillation for Dropout Precursor Identification in Online Learning	Feng Pan, Chao Chen, Yong Han, and Hongying Bai
SS 3-4	VAMoRPH: Visual-Intent Adaptive Modular Routing with Plug-in Hazard Experts for Open-Scene Industrial Hazard Recognition	Qingzhi Yu, Kaiwen Xue, Ye Duan, Xuezhao Ding, Zhanqi Zhang, Dong Wang, Zhonghong Ou, Kaize Shi, and Yifan Zhu
SS 3-5	StyleTimeQAM: Modeling Learning Style and Temporal Dynamics for Question-Answer Matching in Online Teaching Groups	Xinyang Li, Zhihong Cui, Zhongming Yao, Zhangkai Wu, Hengyu Liu, Kristian Torp, Minghe Yu, Tiancheng Zhang, and Ge Yu
SS 3-6	SAG-OSN: Source-Aware Grouping for OSN-Robust Image Forensics	Yaodan Yan
SS 3-7	Paper Mill Detection Based on MLLM-Driven Academic Image–Text Consistency Assessment	JunPeng Ding, Tzu-Yen Ma, Zichen Tang, Mengyuan Ji, Jun Zhang, Chenghao Ma, Siying Lin, Linyao Qi, Jintong Chen, Ziyi Zhang, Qing Huang, Haocheng Gao, Yifan Zhu, and Haihong E

13:30–15:30 | Special Session 4: Toward Human-Centered GenAI

Room: SOMERSET B Session Chair: Qika Lin, National University of Singapore, Singapore
Notes: 12 min oral + 3 min Q&A

ID	Title	Authors
SS 4-1	Value Alignment Beyond Safety: A Cross-Cultural Analysis of Large Language Model Priorities	Yang Ma, Song Tong, Bo Wang, and Kaiping Peng
SS 4-2	PDB-Dialogue: A Scalable Benchmark for Personality Recognition in Multi-Turn Dialogue	Jialin Gu, Bojian Zhou, Jiaxing Shen, Chengzu Dong, Zongxi Li, and Lisha Yu
SS 4-3	STRATUM: Role-Aware Longitudinal Behavioral Signal Analysis for Mental Health Monitoring	Zhonghao Wang, Zhicong Ding, Yuhan Feng, Yaoqiang Niu, and Ying Cai
SS 4-4	Can Large Language Models Simulate Well-Being Survey Respondents? A Psychometric Comparison of GPT-3.5 and GPT-4	Luoma Ke, Joshua Liao, Song Tong, and Kaiping Peng

15:30–16:00	**Coffee Break**
16:00-16:30	**Opening Ceremony at SOMERSET A&B**
16:30–17:20	**Keynote Speech delivered by Prof. Li Xiong at SOMERSET A&B**

Program Details

Day 1 — Monday, October 26, 2026

16:00–16:30 | Opening Ceremony

Room: SOMERSET A&B Chair: Jianquan Liu, NEC Corporation, Japan

16:30–17:20 | Keynote 1

Room: SOMERSET A&B
Session Chair: Guandong Xu, The Education University of Hong Kong, Hong Kong SAR



Speaker:
Prof. Li Xiong
Emory University, USA

Bio. Li Xiong is the Samuel Candler Dobbs Professor of Computer Science and Biomedical Informatics at Emory University, where she directs the Assured Information Management and Sharing (AIMS) Lab. Her research focuses on trustworthy and privacy-enhancing AI for healthcare, public health, and spatial intelligence. She is an ACM, IEEE, and AAAS Fellow, recognized for her contributions to privacy-preserving and secure data analytics. Her research has been supported by major U.S. government agencies and global industry partners, including Google, IBM, Cisco, AT&T, and Mitsubishi. More details are available at http://www.cs.emory.edu/~lxiong.

Talk: Learning Without Revealing: Trustworthy AI for Behavioral and Mobility Data

Abstract: AI systems increasingly learn from traces of human behavior, including mobility trajectories, health records, online interactions, and social data. While these data enable behavioral modeling, public health insights, and urban mobility analytics, they also create risks of membership and attribute inference, as well as unintended extraction of memorized data. This talk explores how AI can learn from behavioral and social data without revealing protected information across the AI lifecycle. I will highlight our recent work on protecting web-published content before model ingestion, privacy-preserving generation and sharing of mobility and other structured human data, privacy-preserving training, extraction-risk measurement, and machine unlearning. I will conclude with open challenges for trustworthy behavioral AI in generative and agentic systems.

17:30–18:30 | Panel: Agent Sociality vs. Human Sociality

Room: SOMERSET A&B
Session Chair: Tianyong Hao, South China Normal University, China

Panelist 1	Prof. Qing Li, The Hong Kong Polytechnic University, Hong Kong SAR, China
Panelist 2	Prof. Li Xiong, Emory University, USA
Panelist 3	Prof. Feng Xia, RMIT University, Australia
Panelist 4	Dr. Thepchai Supnithi, National Electronics and Computer Technology Center, Thailand
Panelist 5	Prof. Yang Chen, Fudan University, China

19:00–22:00	**Reception**	**Venue / Room**	**Ballroom A**

Program Details

Day 2 — Tuesday, October 27, 2026

09:00–10:30 | Best Paper Candidate Session (Selected from Full Papers)

Room: SOMERSET A&B Chair: Jianwei Zhang, Iwate University, Japan
Notes: 12 min oral + 5 min Q&A

ID	Title	Authors
BP-1	Impact of Response Length on Nugget-Level Stance Distribution in Conversational Search	Momo Kumano, Ken Tobioka, and Takehiro Yamamoto
BP-2	Openness Matters: Personality Traits and AI Apprehension Across AI Types, Age, and Gender	Ala Yankouskaya, Mohammad Mominur Rahman, Muaadh Noman, and Raian Ali
BP-3	Beyond Acceptance and Anxiety: GAAIS-J Positive and Negative Attitudes as Predictors of Educational Generative AI Readiness among Japanese Students and Educators	Yasumasa Yamaguchi, Chiaki Hashimoto, and Nagayuki Saito
BP-4	Whack-a-Mole or Guided Convergence? Evaluating Behavioral Dynamics of Multi-Agent Systems in Multi-Constraint Instructional Design	Jingjun Wei, Yu Yang, and Guandong Xu
BP-5	Admiring User Correction More Than Enacting It: Evidence Across Arab and UK Samples in Combating Online Hate	Rabab Ali Abumalloh, Aya Muhanad, Tourjana Islam Supti, Osama Halabi, Ala Yankouskaya, Dena Al-Thani, and Raian Ali

10:30–11:00	**Coffee Break**
11:00–12:00	**Keynote Speech delivered by Prof. Qing Li at SOMERSET A&B**

Program Details

Day 2 — Tuesday, October 27, 2026

11:00–12:00 | Keynote 2
Room: SOMERSET A&B
Session Chair: Krisana Chinnasarn, Burapha University, Thailand



Speaker:
Prof. Qing Li
The Hong Kong Polytechnic University, Hong Kong SAR, China

Bio. Qing Li is a Chair Professor and Head of the Department of Computing, the Hong Kong Polytechnic University. He received his B.Eng. from Hunan University (Changsha), and M.Sc. and Ph.D. degrees from the University of Southern California (Los Angeles), all in computer science. His research interests include multi-modal data management, conceptual data modeling, social media, Web services, and e-learning systems. He has authored/co-authored over 500 publications in these areas, with over 74,000 citations and H-index of 111 (source: Google Scholars). He is actively involved in the research community, serving as an Editor-in-Chief of Computer & Education: X Reality (CEXR) by Elsevier; he has also served as an associate editor of IEEE Transactions on Artificial Intelligence (TAI), IEEE Transactions on Cognitive and Developmental Systems (TCDS), IEEE Transactions on Knowledge and Data Engineering (TKDE), ACM Transactions on Internet Technology (TOIT), Data Science and Engineering (DSE), and World Wide Web (WWW) Journal, in addition to being a Conference and Program Chair/Co-Chair of numerous major international conferences. He also sits/sat in the Steering Committees of DASFAA, ACM RecSys, IEEE U-MEDIA, WISE and ICWL. Prof. Li is a Fellow of IEEE, and of International Academy of Artificial Intelligence Sciences (AAIS).

Talk: Towards Multi-level Querying Methodology for an Indoor Robot Smart Space

Abstract: Smart Space denotes dynamic, adaptive environments enhanced with robotics and AI technologies. Examples include smart homes/offices/cafes. By leveraging and integrating Computer Vision, Natural Language Processing, AIoT, Data Mining, Recommender Systems, and Sympathetic Computing, Smart Space can help improve efficiency, personalization, and user satisfactions with seamless interactions. In this talk, we introduce PolyRAG, a multi-level knowledge QA framework supporting multi-level querying for an indoor robot application system. Building on top of a naive RAG layer, we construct a knowledge pyramid by adding a knowledge graph layer and an ontology schema, so as to obtain a good balance of recall and precision when applied to a specific domain such as coffee robot interactions. We employ cross-layer augmentation techniques for comprehensive knowledge coverage and dynamic updates of the Ontology scheme and instances. To ensure compactness, we utilize cross-layer filtering methods for knowledge condensation in KGs. An experimental coffee robot prototype is constructed, and preliminary empirical studies are conducted to show the effectiveness of our PolyRAG supporting a waterfall model for querying from ontology to KG to chunk-based raw text.

12:00–13:30	**Lunch**	**Venue / Room**

Program Details

Day 2 — Tuesday, October 27, 2026

13:30–15:30 | Full Paper Oral Session 1: Computational Social Analysis

Room: CHELSEA B Session Chair: Yicong Li, Nanjing University of Aeronautics and Astronautics, China
Notes: 12 min oral + 5 min Q&A

ID	Title	Authors
OS 1-1	Distinctive Review Sentence Extraction via Multi-Product Relative Comparison	Naoto Yazaki, Katsumi Tanaka, and Yoshiyuki Shoji
OS 1-2	Time-Varying Persistence and Entropy in the U.S. 10-Year Treasury Yield: Evidence from Macro-Financial Adjustment Episodes	Conghui Tian and Jianbo Gao
OS 1-3	Mapping Structural Differentiation and Bridging Patterns in Reported Urban Climate Action Portfolios: A Multi-Network Analysis	Fenglin Bi, Haodi Li, Rui Zheng, Xiaoyu Xu, and Nan Qu
OS 1-4	Mitigating Semantic Coordinate Drift in Federated Recommendation via Anchor-guided Alignment and Calibration	Jiayi Sun, Tianzi Zang, and Yicong Li
OS 1-5	SmartRAG-Budget: Ratio-Aware RAG for Household Expense Analysis and Recommendation	Julian Miwa, Da Li, Tadahiko Kumamoto, and Yukiko Kawai
OS 1-6	Evaluating a Multi-Criteria Approach to Resolving Reviewer Dissatisfaction in Hotel Recommendation Systems Considering Room and Meal Aspects	Yujiro Hayashi, Fumiya Yamaguchi, Jianwei Zhang, Yukiko Kawai, and Shinsuke Nakajima

13:30–15:30 | Full Paper Oral Session 2: Human-AI Interaction

Room: SOMERSET A
Session Chair : Sirui Huang, Hong Kong Polytechnic University, China, and University of Technology Sydney, Australia
Notes: 12 min oral + 5 min Q&A

ID	Title	Authors
OS 2-1	AI Avatars and Human Identity: An Integrated Framework for Ethical Design	Shouq Harith Abu Bakar Al Ghassani, Abeeralward Ali Amer Ayedh Aljaberi, Amna Omar Yousef Mohammed Alshehhi, Mousa Al-kfairy, and Omar Alfandi
OS 2-2	Japanese Handwriting Generation based on Human Preference Feedback using Direct Preference Optimization	Wakana Kuwata, Ryota Mibayashi, Masanori Tani, and Hiroaki Ohshima
OS 2-3	Local Detection, Remote Reasoning: A Grounded YOLO-VLM Pipeline for Real-Time Wheelchair Hazard Detection	Eisei Nakahara, Zhongwei Wang, and Xinxiao Li
OS 2-4	Multimodal Fusion for Uncertainty-Aware Emotion Recognition in Conversations	Teodora Stereciu, Tigist Ali Gebeyehu, and Tsegaye Misikir Tashu
OS 2-5	Few-Shot Prompt-Based Longitudinal Mood State Analysis of Bipolar Disorder on Social Media	Jiefeng Lin, Koichiro Watanabe, and Shuntaro Yada
OS 2-6	Trustworthy AI-Assisted Environmental Communication: A Verification-Centered Governance Framework	Adipon Euajarusphan and Teerati Banterng
OS 2-7	Graph-XGB: A Hybrid GNN Framework for Outdoor-to-Indoor 5G Signal Reconstruction via Aerial-Only UAV RF Sensing	David Hason Rudd, Eunkwang Shin, Nithiwat Pattrapong, Huan Huo, and Xiangmeng Wang

Program Details

Day 2 — Tuesday, October 27, 2026

13:30–14:30 | Workshop 1: Intelligent Models for Language and Cross-Cultural Education (IMLCCE)

Room: SOMERSET B Session Chair : Juan Wang, Chaohu University, China
Notes: 12 min oral + 3 min Q&A

ID	Title	Authors
WS 1-1	Research on Strategies for Enhancing College Students' Cross-Cultural Sensitivity through Intelligent Technology Empowerment in the Context of Cultural Confidence	Xu Jie and Wang Juan
WS 1-2	Constructing and Evaluating a Dual-Loop Human–AI Collaborative POA-Based Oral English Teaching Paradigm for Cross-Cultural Communication Competence Development	Wang Juan, Xu Jie, and Hanita Hanim Binti Ismail

14:30–15:30 | Workshop 2: Artificial Intelligence for Law

Room: SOMERSET B Session Chair : Tianyong Hao, South China Normal University, China
Notes: 12 min oral + 3 min Q&A

ID	Title	Authors
WS 2-1	AuditLegalQA: A Benchmark for Legal Grounding in Public-Sector Audit Question Answering	Yuhao Duan, Aikedai Aikebaier, Weihao Xu, Ruting Chen, Yiming Xu, and Tianyong Hao
WS 2-2	Hybrid Retrieval and Dynamic-Rank LoRA Optimization for Legal Question Answering	Qian Xiang, Liping Fu, Juan Xu, and Tianyong Hao

15:30–16:00	**Coffee Break**
16:00–16:50	**Keynote Speech delivered by Prof. Jun Miyazaki at SOMERSET A&B**

Program Details

Day 2 — Tuesday, October 27, 2026

16:00–16:50 | Keynote 3
Room: SOMERSET A&B
Session Chair: Yang Chen, Fudan University, China



Speaker:
Prof. Jun Miyazaki
Institute of Science Tokyo, Japan

Bio. Jun Miyazaki received the B.E. degree from the Tokyo Institute of Technology, Tokyo, Japan, in 1992, and the M.S. and Ph.D. degrees from the Japan Advanced Institute of Science and Technology (JAIST), Ishikawa, Japan, in 1994 and 1997, respectively. From 2000 to 2001, he was a visiting scholar in the Department of Computer Science and Engineering at the University of Texas at Arlington. In 2013, he joined the Institute of Science Tokyo (formerly the Tokyo Institute of Technology), Tokyo, Japan, where he is currently a Professor and the Dean of the School of Computing. His research interests include database systems, information retrieval, information recommendation, and high-performance computing. He has been actively involved in numerous international conferences and workshops, serving as a chair or program committee member for events such as IEEE ICDE (2005), VLDB (2020), MDM (2006), SRDS (2014), and DASFAA (2003, 2010, 2024). He also served as Vice President of the Database Society of Japan (DBSJ) from 2018 to 2024. He is a member of ACM, a senior member of IEEE, and a fellow of IEICE and IPSJ.

Talk: Does AI Need Databases, or Do Databases Need AI?

Abstract: The practical deployment of Large Language Models (LLMs) utilizing massive datasets marks a significant milestone in computer science. While this major paradigm shift is characterized by the efficient storage of vast training data and high-performance computing over large-scale computer clusters, it owes much to the achievements deeply rooted in decades of database technology research. Indeed, without the continuous feedback from database research, the progress of AI technology would have been significantly delayed. Conversely, within the database field, the integration of AI into various applications is expanding rapidly. Nevertheless, since database systems inherently require absolute correctness and determinism, applying AI into the core of the database system remains challenging. This talk explores the inherent affinity between AI and database technologies and outlines future perspectives for establishing a mutually beneficial, win-win relationship between both domains.

Program Details

Day 2 — Tuesday, October 27, 2026

17:00–18:50 | Early Career Academic Forum

Room: SOMERSET A&B Session Chair: Kaize Shi, University of Southern Queensland, Australia
Notes: 10 min per person

ID	Title	Presenter
ECA-1	Fill-Mask Association Test (FMAT): A New Computational Linguistic Paradigm for Social Sciences	Bao, Han Wu Shuang East China Normal University
ECA-2	Bridging AI Systems, Human Behavior, and Society	Haoyang Li The Hong Kong Polytechnic University
ECA-3	Evidence Before Action: Towards More Reliable AI Agents	Hongzhan Lin National University of Singapore
ECA-4	From Detection to Causation (Understanding who spreads misinformation, how it engages, and why it works)	Lin Tian University of Technology Sydney
ECA-5	AI in Education: The Impact on Competence and Ethics	Oscar Karnalim Maranatha Christian University
ECA-6	Mechanistic-Driven AI Safety and Alignment	Usman Naseem Macquarie University
ECA-7	Sociotechnical Evaluation of AI-Assisted Translation	Wei Zhao University of Aberdeen
ECA-8	LLM Personalization: Frontiers and Outlook	Wenjie Wang University of Science and Technology of China
ECA-9	Generative AI and the Future of Education: A Zillennial Perspective	Yasumasa Yamaguchi Sendai University
ECA-10	Human Skeleton Empowered Behaviour Intelligence: From Identity and Action Recognition to Human Wellbeing	Haocong Rao Nanyang Technological University

19:00–22:00 **Banquet** **Venue / Room** **Ballroom A**

Program Details

Day 3 — Wednesday, October 28, 2026

09:00–10:30 | Regular Paper Poster Session

Room: Chelsea Room A Session Chair: Yu Yang, The Education University of Hong Kong, Hong Kong SAR, and Shiqing Wu, City University of Macau, Macau SAR

Part I (9:00–9:45): Large Language Models and Natural Language Processing

Poster No.	Paper Title	Authors
PS I-1	Conversational Emotion-Cause Pair Extraction: A Single-Step Architecture and the Role of Emotion-Label Supervision	Linus R. Bach, Tigist ali Gebeyehu, and Tsegaye Misikir Tashu
PS I-2	An Improved Method for Analyzing Impression Scenes in Videos Using Comment Data	Fumiya Yamaguchi, Akito Sasahara, Mayumi Ueda, and Shinsuke Nakajima
PS I-3	LLM-ConAug: An LLM-based Adaptive Constrained Data Augmentation Framework	Hao Chen, Ruijie Du, Xin Zhang, Dongjing Wang, Ze Zhang, Xudong Shen, and Haiping Zhang
PS I-4	Multi-Level Retrieval-Augmented Generation for Agent Workflow Synthesis	Haoran Fan and Jian Cao
PS I-5	Correction and Supplementary Text Generation for Output-Based Learning Using Speaker Claim Extraction and RAG	Rui Yonemura, Kanako Nakai, and Takehiro Yamamoto
PS I-6	From Structured Natural Language Model Specs to Executable and Transparent Code: Exploring Automatic Code Generation for Agent-based Modeling via an AI-based Middleware	Nikitas M. Sgouros
PS I-7	Evaluating the Robustness of Japanese LLMs to IME-Related and Typographical Errors	Ryota Mibayashi and Hiroaki Ohshima
PS I-8	AraCosmetic: Building and Analysing an Arabic Facebook Corpus of Cosmetic Discourse	Mabrouka Bessghaier, Mohamed Rashad Raouine, and Wajdi Zaghouani
PS I-9	SmartInvest: Multi-View Enterprise Ranking and LLM-Assisted Investment Analysis	JinChang Zhang, Jian Fang, XiaoJian Sun, GongSheng Yuan, Cheng Peng, HaoBo Wang, ChaoNan Lu, ZiQuan Wang, YiBo Wang, and ZhenXi Liu

Part II (9:00–9:45): Recommender Systems and Predictive Modeling

Poster No.	Paper Title	Authors
PS II-1	ASTP: Inductive Stock Trend Prediction via Agent-Regularized Feature Coalitions and Evolving Market Graphs	Wenqiang Gong, Dongjing Wang, Tong Wu, and Xun Wang
PS II-2	Time-Series Forecasting of Online Petition Success for Agile Government	Daniil Buryakov, Shady Salama, Mate Kovacs, and Uwe Serdült
PS II-3	Efficient Privacy-Preserving Recommendation with Compositional Embedding	Yiru Wang, Yaoyue Zhang, Honglei Zhang, and Yidong Li
PS II-4	Long-Tail Distributions of Global Landslide Casualties: Insights into Social Vulnerability from Large-Scale Disaster Data	Yuxi Kuang, Yinuo Zheng, and Jianbo Gao
PS II-5	Duration-Aware Ternary Temporal Graph Network for Career Trajectory Prediction	Wangxuan Wu, Hui Wang, Qiwei Hua, Lei Chen, Yicong Li, and Shuai Xu
PS II-6	An Agent-Based Model of Population Size Effects on Cultural Accumulation using Deep Reinforcement Learning	Manato Naito and Kei Wakabayashi
PS II-7	TTP-GRec: Topo-Temporal Prompting for Generative Dynamic Graph Recommendation	Fei Chen, Zihuan Luo, Jiahao Liang, and Haoran Yang

Program Details

Part III (9:45–10:30): Social Behavior, Digital Culture, and Media Analytics

Poster No.	Paper Title	Authors
PS III-1	Who Provides and Who Acknowledges? A Behavioral Log Analysis of Reciprocal Information Support at the Tokyo 2025 Deaflympics	Yuhki Shiraishi, Ying Zhong, Makoto Kobayashi, Daisuke Wakatsuki, Takuya Suzuki, Takeaki Shionome, and Rumi Hiraga
PS III-2	The Access Fallacy: Why Naïve Comparisons Overstate the Value of Course Chatbots	Kangzhong Wang, Eugene Yujun Fu, Jacky Fong, Arnold Wong, and Fadi Al Zoubi
PS III-3	Multilingual Behavioural Emotion Classification with Instruction-Tuned LLMs: Cross-Lingual Multi-Label Evidence from XED	Lam Anh Nguyen, Arseni Muravjov, Daniella Alves, Tigist Ali Gebeyehu, and Tsegaye Misikir Tashu
PS III-4	From Script to Feed: Gender Representation in Hollywood Films and Arabic Social Media Discourse	Mabrouka Bessghaier, Nour Elhouda Dalloua, and Wajdi Zaghouani
PS III-5	AraHeritage: Exploring Historical and Cultural Heritage Discourse on Arabic Facebook	Wajdi Zaghouani, Manar Bidani, and Mabrouka Bessghaier
PS III-6	Communication Channels and Innovation in Japanese SMEs: Complementary Firm-Level and Employee-Level Analyses	Teruyuki Bunno and Kazunori Minetaki
PS III-7	Analyzing Atypical Local Features in Museum Artifacts using Generative Image Inpainting	Maho Kinoshita, Wakana Kuwata, Ryota Mibayashi, and Hiroaki Ohshima
PS III-8	Collective Urban Memories from Geotagged Posts: Reconstructing Historical Urban Experiences with Persona-Based LLM Narratives	Sunao Endo, Junko Hayashi, Shohei Hisada, Eiji Aramaki, and Shoko Wakamiya
PS III-9	A Multi-View Contrastive Learning Framework for Text Classification in MOOC Discussion Forums	Ziyi Wu, Limiao Zhang, Haiping Ma, and Huiting Liu
PS III-10	AgentcfPro: Community-Aware Multi-Agent Cross-Domain Recommendation with Overlapped Item Bridging	Di Liu, Huiting Liu, and Haiping Ma

Part IV (9:45–10:30): Human-Centered AI, Trust, and Interactive Applications

Poster No.	Paper Title	Authors
PS IV-1	A Perspective on the Future of Ubiquitous Social Robots: Bridging Hardware, AI, and Social Sciences through a Holistic Co-Design Approach	Ali Safa, Farida Mohsen, Tala Zaim, Marwa Qaraqe, Dena Al-Thani, Raian Ali, and John-John Cabibihan
PS IV-2	To Trust or Not to Trust AI Translation – The Case of Disaster Messages	Shiro Uesugi and Masahiro Morita
PS IV-3	Tourism Course Concept Generation via Dynamic Prompt Extension	Shun Yamaguchi, Katsumi Tanaka, and Yoshiyuki Shoji
PS IV-4	Ethics, Privacy, and Trust in Metaverse Tourism Adoption	Amna Omar Yousef Mohammed Alshehhi, Abeeralward Ali Amer Ayedh Aljaberi, Shouq Harith Abu Bakar Al Ghassani, Mousa Al-kfairy, and Omar Alfandi
PS IV-5	Structured Maps for Landmark-Based Route Instructions with LLMs	Mifu Matsumoto, Yuki Nakanishi, Tomoya Hashiguchi, and Hiroaki Ohshima
PS IV-6	Transparent Self-Calibrating Neurointerfaces for Visual Information Substitution	Akira Kimura

Program Details

Part IV (9:45–10:30): Human-Centered AI, Trust, and Interactive Applications

Poster No.	Paper Title	Authors
PS IV-7	Evolutionary Game Model of Data Broker Trust Dynamics in Data Trading Markets	Xuenan Ju, Zihao Yue, Jun Qian, and Xiao Sun
PS IV-8	GNN-Encoder-Based Recommendation with Offline LLM Text Representations and Random-Walk Structural Enhancement	Zihuan Luo, Fei Chen, Sirui Huang, and Haoran Yang
PS IV-9	Cross-Regional Divergence in Tourist Sentiment and Topical Concerns: A Weakly-Supervised Analysis of Online Reviews across China's Four Economic Zones	Shengjie He, Junjie Li, and Chunqiu Li
PS IV-10	Cognitive Oversight and Governance for LLM-Driven Autonomous Agents: A Human-Centered Framework for Transparency and Accountability	Yufan Ren and Yi Zhou
PS IV-11	A Multi-dimensional Analysis of Paper Mill Related Retractions in the Medical Field	Yingshuai Wang, Yuan Yang, Huan Yin, and Dongping Gao
PS IV-12	Behavior-Gated Evaluation of Trustworthy Foundation-Model Voice Assistants for Visually Impaired Users	Tianle Li, Yitian Sun, Jiapeng Li, Yuchen Sun, Zixuan Zhang, Xinhui Gao, and Zheng Zeng

9:00 - 9:45 | Demo Track

Room: Chelsea Room A Session Chair: Yu Yang, The Education University of Hong Kong, Hong Kong SAR, and Shiqing Wu, City University of Macau, Macau SAR

Poster No.	Paper Title	Authors
DS-1	Knowledge-Driven Intelligent Design Assistant for Covalent Organic Framework Materials	Cailing Han, Jingyi Zhu, Xianghui Fan, Huadong Liang, Feiyang Xu, Zongting Ge, and Xin Li
DS-2	ABC: A Conversational Bioinformatics Analysis Platform for Agricultural Breeding	Cheng Huang, Mingming Hu, and Xin Li
DS-3	MathMate: A Multi-Agent Tutoring Platform for Guided Mathematical Reasoning	Jing Liao, Haoming Sun, and Zhiyuan Wen
DS-4	PolyPresentation: A Multimodal AI Platform for Slide-Aware Iterative Presentation Practice	Chen Chen, Jihao Li, Zhiyuan Wen, Tianhui Zhang, Di Zou, and Jiannong Cao
DS-5	SurveyFlow: A Modular LLM Workflow for Automated Research Survey Generation	Xiaobin Liu, Zhiyuan Wen, Longxiang Gao, and Yu Yang
DS-6	PolyDebate: A Game-Orchestrated Multimodal System for Debate Skills Practice and Evaluation	Jianing YIN, Weng Pan Kuan, Xiaoyun Liu, Zhiyuan Wen, Yuxuan Li, Milos Stojmenovic, and Jiannong Cao

Program Details

Day 3 — Wednesday, October 28, 2026

09:00–10:30 | Industry Track

Room: SOMERSET B Session Chair: Yifan Zhu, Beijing University of Posts and Telecommunications, China
Notes: 8 min oral + 4 min Q&A

ID	Title	Authors
Ind-1	GynoNurse: An LLM-driven Clinical Consultation System for Gynecological Nursing	Zhuo Li, Xianghuai Deng, Chongchen Deng, Chiwei Feng, Weixuan Liu, Jianhao Chen, Junchao Fan, Yanni Yang, Xianhua Wang, and Ben Wang
Ind-2	Offline Human-in-the-Loop Learning for Multimodal Cognitive State Assessment	Qinyuan Chang, Yang Niu, Zhao Zhang, Ge Li, Feiyang Xu, and Xin Li
Ind-3	A Time-Series-Safe, Quantile-Calibrated Multi-Objective Lineup-Optimization System for NBA Daily Fantasy Sports: An Industrial Case Study	Lili, Runze Wu, Xudong Shen, Fan Zhong, Wentian Jiang, Tangjie Lv, and Kaikai Hu
Ind-4	NashLens: Game-Native Interpretable RL via CFR-Distilled Nash Anchoring	Chengjia Wang, Runze Wu, Guangtao Zeng, and Jiajun Bu

09:00–10:30 | Workshop 3: Machine Learning and Social Computing (MLSC 2026)

Room: SOMERSET A
Notes: 15 min oral

ID	Title	Authors
WS3-1	Human-Centered AI for Cyber-Resilient Emergency Medical Services: An Empirical Investigation of Adoption Drivers	GIEDRĖ SABALIAUSKAITĖ, Ahsan Waqar, Mir Hassan, Inzamam Mashood Nasir
WS3-2	A Study on Continued Usage Intention toward Radio Stations' Digital Communication Platforms: A Case of Facebook Fan Pages	Chih-Wei Lin, Wen-Goang Yang, Shu-Chen Huang, Chiuan-Jr Ke, Yun-Tsan Lin
WS3-3	Promoting the Adoption of Smart Fitness Systems among Older Adults an Integration of the Technology Acceptance Model and Theory of Planned Behavior	Chin-Cheng Yang, Ching-Te Lin, Fang-Cheng Ku, Hong-Yu Zhou, Chin-Ting Liu
WS3-4	Understanding Consumers' Behavioral Intentions Toward the Taiwan Lottery App: An Integrated Technology Acceptance Model and Theory of Planned Behavior Approach	Ching-Te Lin, Wei-Hwa Pan, Chin-Cheng Yang, Adi Prasetyo Tedjakusuma, Thi Phuong Bui
WS3-5	A Hybrid GA-EWMA Regression Model for Stock Price Prediction Using Financial Ratios	MING-MIN LO, HSIN-HUNG WU, YU-JUN CHEN, CHUAN-HUA HUANG, CHUN-CHIN HSU
WS3-6	A Spatio-Temporal Foundation Model for Traffic Flow Prediction	Jinhua Tan

10:30–11:00	**Coffee Break**
11:00–11:50	**Keynote Speech delivered by Prof. Feng Xia at SOMERSET A&B**

Program Details

Day 3 — Wednesday, October 28, 2026

11:00–11:50 | Keynote 4
Room: SOMERSET A&B
Session Chair: Raian Ali, Hamad Bin Khalifa University, Qatar



Speaker:
Prof. Feng Xia
RMIT University, Australia

Bio. Dr. Feng Xia is a Professor of AI at RMIT University, Melbourne, Australia. His research interests include artificial intelligence, graph learning, brain, robotics, and digital health. He is a Fellow of the IEEE. His contributions and leadership have been recognized by prestigious awards. His work is featured in top-tier journals and conferences. Dr. Xia has extensive editorial and organizational experience, having served as an Associate or Guest Editor for over 20 journals and in various Chair roles for more than 30 conferences. He is the Chair of IEEE Task Force on Learning for Graphs. More details are available at http://xia.ai.

Talk: Beyond Graph Learning: The Rise of Agentic Social Intelligence

Abstract: Graph learning has transformed our ability to model complex behavioural and social systems by capturing the relationships, interactions, and dynamics through which individual and collective behaviours emerge. Yet prediction is no longer the final frontier. The rise of large language models (LLMs) and agentic AI raises a more ambitious question: can AI move beyond learning from graphs to understanding social contexts, reasoning about consequences, and acting responsibly? This talk will trace a journey from graph learning to a broader vision of agentic social intelligence. I will discuss how graph representation learning can uncover hidden structures, recurring patterns, and evolving collective dynamics in complex social systems, and also examine critical challenges such as fairness and explainability. I will explore the emerging convergence of graphs, LLMs, and AI agents and conclude by outlining a research agenda for the new frontier of agentic social intelligence.

12:00–12:30 | Closing Ceremony
Room: SOMERSET A&B
Chair: Jianquan Liu, NEC Corporation, Japan

12:30–13:30	**Lunch**	**Venue / Room**	
13:30–20:00	**City Tour**	**Notes**	

2026 IEEE Region 10 Humanitarian Technology Conference

Conference Program

Date	Time	Kensington A	Kensington B	Chelsea A
27 October 2026	08:30-09:00	HTC Opening Ceremony		
	09:00-09:45	Keynote — Grayson Rendall		
	09:45-10:30	Keynote — Prof. Samur Thanoi		
10:30-10:45 – Coffee Break				
27 October 2026	10:45-12:00	Humanitarian Panel Discussion	Education and Capacity Building through Technology Chair:	Digital Inclusion and Connectivity for All Humanitarian Logistics and Supply Chain Technologies Chair: Roungsan Chaisrichareoun
LUNCH				
27 October 2026	13:00-14:00	IEEE Japan Council Panel	Education and Capacity Building through Technology Chair: Thanatip Chankong	Disaster Management and Resilience Technologies Chair: Natt Leelawat
14:00-14:15 – Coffee Break				
27 October 2026	14:15-15:15	R10 WIE Session	Sustainable Development and Environmental Technologies Chair: Patipat Vongruang	Disaster Management and Resilience Technologies Chair: Natt Leelawat
27 October 2026	15:15-16:00	R10 Student Session	Sustainable Development and Environmental Technologies Chair: Patipat Vongruang	Online Session Chair: Paween Khoenkaw

2026 IEEE Region 10 Humanitarian Technology Conference

Conference Program

Date	Time	Kensington A	Kensington B	Chelsea A
28 October 2026	09:00-09:45	Keynote — Prof. Hirozumi Yamaguchi Osaka University		
	09:45-10:30	R10 Panel Discussion		
10:30-10:45 – Coffee Break				
28 October 2026	10:45-11:45	PES Panel Discussion	Special Session2: Innovation Beyond Profit: Technology for Global Well-being Chair:	
LUNCH				
28 October 2026	13:00-14:15	Healthcare Technologies for Underserved Communities Chair: Mathew Imhoff	Special Session2: Innovation Beyond Profit: Technology for Global Well-being Chair:	Special Session1: Go to Net Zero: Integrating Sustainable Infrastructure, Digital Transformation, and Community Empowerment Chair: Sujittra Inmanee
14:30-14:45 – Coffee Break				
28 October 2026	14:45-16:00	Healthcare Technologies for Underserved Communities Chair: Amir Hajjan	Special Session2: Innovation Beyond Profit: Technology for Global Well-being Chair:	Special Session1: Go to Net Zero: Integrating Sustainable Infrastructure, Digital Transformation, and Community Empowerment Chair: Paween Khoenkaw

BESC Rising Star



Hanwushuang Bao

Fill-Mask Association Test (FMAT): A New Computational Linguistic Paradigm for Social Sciences

Abstract

AI has shifted social science paradigms. Large language models are replacing individual human participants. Collective representations of attitudes, biases, stereotypes, and other important psychological constructs can be discerned more directly at the societal level. In this presentation, I will introduce the Fill-Mask Association Test (FMAT), a new computational linguistic paradigm I developed that can quantify such collective representations. The FMAT follows a simple logic of "cloze task" and can be better understood from a Bayesian perspective, measuring biases and stereotypes as conditional probabilities. As an advantage, the FMAT allows us to specify how targets are associated with attributes in contextualized sentences (i.e., propositions), thereby suitable for studying complex constructs and testing relevant theories. I will briefly review our work with the FMAT (Bao, 2024) in testing new forms of stereotypes (Bao & Gries, 2024; Wang et al., 2025), intergroup biases (Bao & Gries, 2025), and collective memory of social changes (Bao et al., 2026), with a highlight on our latest project about bias representations toward 264 global cultural groups across English and Chinese discourse (Bao et al., revise & resubmit). Future directions of this line of research will be discussed.

Short Bio

Dr. Bao, Han Wu Shuang 包寒吴霜 (Bruce) is an Assistant Professor of Psychology at East China Normal University. After receiving his PhD from the Chinese Academy of Sciences in 2022, he worked as a Postdoctoral Research Associate (2022~2024) at the University of Manchester, where he started an interdisciplinary journey. His research now focuses on using natural language processing (NLP) and computational linguistic methods to understand human psychology, society, and culture. He proposed a new computational linguistic paradigm for social sciences—the Fill-Mask Association Test (FMAT), which can measure collective representations of attitudes, biases, stereotypes, and other important psychological constructs at the societal level. He has published a series of research articles on social computing in leading journals, such as Journal of Personality and Social Psychology, American Psychologist, British Journal of Social Psychology, Advanced Science, and China Quarterly. He has also developed five R packages (published on CRAN) for social computing and general data analysis: bruceR, ChineseNames, PsychWordVec, FMAT, and DPI, together having achieved over 210k downloads and uses worldwide. Dr. Bao now serves as a Youth Editorial Board Member of PsyCh Journal (2026~2028) and has served as a reviewer for Nature, Nature Human Behaviour, Nature Communications, and 30 other journals.

BESC Rising Star



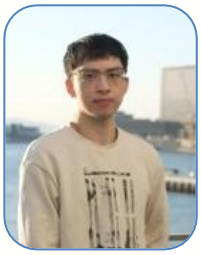
Haoyang Li

Bridging AI Systems, Human Behavior, and Society

Abstract
This talk presents my research at the intersection of graph intelligence, trustworthy AI, and human wellbeing. I will first discuss knowledge graph construction and graph-enhanced retrieval, where graphs capture complex and evolving relationships to support service search and enterprise knowledge question answering. I will then introduce research on reliable retrieval-augmented generation and large language model reasoning, with a focus on structure-aware retrieval, verifiable evidence, and systematic reliability evaluation. Finally, I will present human-centered AI research for wellbeing, including suicide-risk modeling from longitudinal social-media data and AI-assisted support for student wellbeing and early intervention. Across these directions, my research explores how advances in data management and artificial intelligence can better account for human behavior, improve the reliability of intelligent systems, and address practical societal needs.

Short Bio
Haoyang Li is a Research Assistant Professor in the Department of Computing at The Hong Kong Polytechnic University. He received his Ph.D. from The Hong Kong University of Science and Technology and his B.Eng. from Huazhong University of Science and Technology. His research lies at the intersection of graph data management, trustworthy AI, and behavioral and social computing, with interests in social graph mining, retrieval-augmented generation, reliable large language model reasoning, and AI for wellbeing. He has published over 50 papers in leading conferences and journals, including SIGMOD, VLDB, and ICDE. His work aims to connect scalable AI technologies with human behavior and societal needs.

BESC Rising Star



Hongzhan Lin

Evidence Before Action: Towards More Reliable AI Agents

Abstract
AI agents increasingly act through tools: they issue refunds, send documents, update records, and trigger downstream operations. When an action changes external state, a correct final outcome does not guarantee that the action was supported by evidence the agent had established beforehand. In this talk, I will examine where the path from evidence to action breaks, and how these failures change as the required actions become more demanding. I will first describe how we trace agent behavior: for each consequential action, what information had been established, when the action occurred, and whether downstream dependencies were satisfied. I will then present our analysis of agent trajectories across several operational domains, models, and agent harnesses, moving from static action judgment and investigated non-action to single- and multi-action workflows. Several findings stand out. Strong static judgments can coexist with much weaker interactive execution. Failures often begin before execution: agents stop with incomplete investigation, or act before the required evidence is established. Once the evidence is in place, single-action execution is usually reliable, while multi-action workflows expose further failures. Agents may also keep acting when decisive evidence is withheld. I will close by discussing what these findings imply for evaluating and building more reliable AI agents.

Short Bio
Hongzhan Lin is a Research Fellow at the Centre for Trusted Internet and Community (CTIC), National University of Singapore, working closely with Prof. Mong-Li Lee, Prof. Wynne Hsu, and Prof. Tat-Seng Chua. He received his PhD in Computer Science from Hong Kong Baptist University in 2026, and was a visiting PhD student at the NExT++ Research Centre, NUS, from 2024 to 2025. His research lies at the intersection of natural language processing, multimodal reasoning, and social computing. His first-author work has appeared at venues including ACL, EMNLP, NAACL, AAAI, WWW, and IEEE TKDE. He serves as an Area Chair for ACL, EMNLP, NeurIPS, EACL, and AACL, and as Web & Registration Chair of ACM WebSci 2027.

BESC Rising Star



Lin Tian

From Detection to Causation
Understanding who spreads misinformation, how it engages, and why it works

Abstract
For most of the past decade, the fight against online misinformation has been framed as a classification problem: is this post false, is this account fake? Working with real platform data has convinced me that the harder, and more useful, questions are behavioural. Who is behind a coordinated campaign? How quickly will a piece of misinformation take off? What makes people engage with it, and why does the same content work differently on different platforms? This talk follows one line of work through those four questions. The detection part is MetaTroll and X-Troll, which find state-sponsored information-operation accounts from a handful of examples and explain why an account was flagged. Prediction is IC-Mamba, a state space model built for the interval-censored engagement data platforms release; within the first half hour it can tell which misinformation will go viral and whether the amplification is organic or coordinated. CITRUS brings in causation, estimating what engagement would have been without news coverage or search interest, and turns up hidden amplifiers with modest followings and narratives that grow six-fold when promoted. DREAMS is the explanation step: social exchange theory built into the model, so it can separate universal drivers of engagement from platform-specific habits. I will close with where this is heading, which is game theory and reinforcement learning models of how influence operations adapt under detection pressure, so defences can be hardened before a new evasion strategy shows up, and with what a behavioural and social computing community can bring to that problem.

Short Bio
Lin Tian is a Research Fellow in the Behavioural Data Science Lab at the University of Technology Sydney and works on machine learning for online misinformation. Most of the field asks whether a post is false. Lin is more interested in the questions around it, the ones that sit between computer science and behavioural science: who is behind a campaign, how fast it will move, what makes people engage with it, and why the same content lands differently on different platforms. Each of those has a system behind it. MetaTroll and X-Troll pick out state-sponsored accounts from a handful of labelled examples, and X-Troll explains each flag in the language of propaganda theory so an analyst can check it. IC-Mamba is a state space model for the patchy, interval-censored counts that platforms release; half an hour after a post goes up it can say whether the post will go viral and whether the push behind it is coordinated. CITRUS asks what engagement would have looked like without a news story, a search spike or an influencer, which is how it finds amplifiers with small followings. DREAMS puts social exchange theory inside the model rather than beside it, so one model carries across platforms. The current work is about getting ahead of the adversary rather than chasing it: game theory and reinforcement learning models of how an operation adapts once it is being detected, and red-teaming studies of how little it takes to get agent guardrails to produce coordinated disinformation. Lin finished a PhD at RMIT University in 2024 on transfer learning for misinformation detection. The work has been published at WWW, AAAI, CIKM, NAACL, EACL and ECML-PKDD and has won shared tasks at CLEF, IberLEF and ALTA. Lin is a 2025 DAAD AInet Fellow, and outside work a marathon runner and skier.

BESC Rising Star



Oscar Karnalim

AI in Education: The Impact on Competence and Ethics

Abstract
Artificial Intelligence (AI) significantly disrupts education. It acts as a double-edged sword that boosts learning productivity while also introducing risks of false competence and complex ethical dilemmas. To address these challenges, my research focuses on promoting responsible and ethical AI adoption through multifaceted pedagogical and technical interventions. On the pedagogical side, this involves integrating tailored mechanisms within Learning Management Systems, developing dedicated prompt builders, introducing structured learning modules, and designing AI-resistant assessment strategies. Complementing these proactive interventions, my work advances technical detection mechanisms by developing specialised AI detectors. These detectors draw on machine learning algorithms, anomaly analysis, uniqueness metrics, and similarities to AI-generated content. Furthermore, the research explores public perspectives on AI characteristics to explain how these technological traits influence learning behaviours and shape AI's broader impact on higher education.

Short Bio
Oscar Karnalim is an Associate Professor in Informatics Engineering and the Vice Rector I at Maranatha Christian University, Indonesia. His work focuses on human factors in computing, AI, educational technology, and academic integrity. He emphasises educational and behavioural interventions, developing automated feedback tools and gamified platforms to proactively teach students intended behaviours. He has published more than 130 papers, garnering at least 1800 citations. His research collaborations span more than 25 countries, including Canada, the Netherlands, and the USA. He is Computing's Top 30 Early Career Professionals for 2025 (IEEE Computer Society), 2026-2027 Distinguished Lecturer (IEEE Education Society) and Michael Auer Young Scientist Awardee in 2025 (IETI). Oscar has been invited to deliver talks at many international forums across Romania, Tunisia, Japan, China, Thailand, India, and the Philippines.

BESC Rising Star



Usman Naseem

Mechanistic-Driven AI Safety and Alignment

Abstract
Large language models are becoming increasingly capable and widely used, yet their behaviour can still diverge from human preferences, values, and expectations, producing responses that are unsafe, biased, culturally misaligned, or needlessly restrictive. In this talk, I will first discuss our work on measuring and characterising misalignment in current models across different tasks, settings, and forms of interaction, including the social contexts where the right answer depends on whose values are being applied. I will then describe our efforts to improve alignment through intervention and steering approaches. This leads to a deeper question: if we can observe that a model is misaligned, can we understand why it behaves that way and reliably control its behaviour? I will introduce our work on mechanistic-driven alignment, which looks inside models to understand how alignment-related behaviours emerge, how they can be more precisely controlled, and how those interventions can be validated for safety, fairness, and reasoning quality. I will conclude with our vision for AI systems that are not only safer, but also interpretable, controllable, trustworthy, and responsive to diverse human values and contexts.

Short Bio
Usman Naseem is a Lecturer (Assistant Professor) in the School of Computing at Macquarie University, Australia, where he leads the SocialNLP Lab. His research focuses on LLM alignment, AI safety and trust, mechanistic interpretability, and NLP for social good. He has published over 100 peer-reviewed papers with over 6,600 citations, and has received nine Best Paper Awards, including at AAAI 2026, as well as the DAAD AINet Fellowship. He was ranked first in Australia among early-career researchers in AI, NLP and Web/IR (CSRankings 2025) and listed among Stanford and Elsevier's Top 2% Scientists worldwide. He served as Program Co-Chair for the Web4Good track at The Web Conference 2026 and as Senior Area Chair for EMNLP 2025, EACL 2026 and ACL 2026, and has organised shared tasks including SemEval-2026 Task 9 and workshops including MM4SG and VLM4Bio. One of his PhD students received a 2026 Google PhD Fellowship in NLP. More at https://usmaann.github.io/

BESC Rising Star



Wei Zhao

Sociotechnical Evaluation of AI-Assisted Translation

Abstract
AI researchers often evaluate machine translation for accuracy, but accuracy alone cannot tell us whether a translation meets the needs of the people who use it. In this talk, I will use AI-assisted literary translation as a case study to show how technical evaluation can overlook the creativity and cultural nuance that professional translators are looking for. I will illustrate this by showing how AI models handle metaphors and wordplay, and how well they comprehend source texts. I will then show how translators' input can improve evaluation methods. Finally, I will broadly talk about the concerns that translators, language learners, and language service providers raise about trust, translation quality, and societal impacts of machine translation, and show how their perspectives differ from AI researchers.

Short Bio
Wei Zhao is a Lecturer (Assistant Professor) at the University of Aberdeen in Scotland and the new Head of the NLP Group, which was established in 1995. His research interests include the sociotechnical evaluation of AI systems, machine translation, and AI for science, among others. He has contributed to more than 50 publications. His work has been honoured with an Outstanding Paper Award at NAACL 2025 and featured in language technology media such as Slator. He was invited to speak about public perceptions of machine translation for the Institute of Translation and Interpreting (ITI), a professional association for translators in the UK. He has also held a Heidelberg Marsilius Fellowship and received an Aberdeen Research Catalyst Award and a Royal Society of Edinburgh Research Collaboration Award. Before joining Aberdeen, he was a postdoctoral researcher at the Heidelberg Institute for Theoretical Studies and Heidelberg University. He earned his PhD from TU Darmstadt in Germany.

BESC Rising Star



Wenjie Wang

LLM Personalization: Frontiers and Outlook

Abstract
Recent breakthroughs in general intelligence have highlighted the powerful cognitive capabilities of large language models (LLMs) in understanding, generation, and decision-making. However, general LLMs still face substantial challenges in meeting individual needs and addressing tasks in specific contexts. Enabling these models to “understand individuals” and adapt to the specific needs of users, organizations, and vertical domains has become central to practical AI deployment. This talk will systematically review key advances and emerging challenges in the personalization of LLMs. It will focus on efficient fine-tuning for adaptation to personalized data, dynamic memory mechanisms for long-horizon tasks, and personalized agentic frameworks for complex tasks. The talk will conclude with an outlook on the broad applications and future directions of LLM personalization.

Short Bio
Wenjie Wang is a professor in the School of Information Science and Technology at the University of Science and Technology of China (USTC). His research focuses on the LLM personalization, agents, and AI for Science. He has published more than 80 papers in leading conferences and journals, including ICLR, NeurIPS, SIGIR, KDD, WWW, and TOIS. He has received the Best Paper Mention Awards at SIGIR 2024 and ACM Multimedia 2019, as well as the Google PhD Fellowship. Over ten papers at SIGIR, KDD, and WWW have been selected into the most influential paper lists. His work on multi-agent collaboration was featured as a cover article in Communications of the ACM. His research has also been translated into practical applications at Tencent, Meituan, Kuaishou, and other organizations. He serves as a guest editor for ACM TOIS and as an editorial board member of Electronics. He also serves as an area chair or reviewer for venues including TPAMI, TOIS, TKDE, SIGIR, KDD, WWW, ICLR, NeurIPS, and ACL.

BESC Rising Star



Yasumasa Yamaguchi

Generative AI and the Future of Education: A Zillennial Perspective

Abstract
The rapid spread of generative AI is beginning to reshape learning, assessment, knowledge production, and the role of teachers in education. This presentation focuses on “Zillennials,” the generation positioned between Millennials and Generation Z, and considers the role they may play in education in the age of generative AI.
Zillennials have experienced both a time when digital technologies were not yet deeply embedded in everyday life and a period in which the internet, smartphones, and social media became increasingly ubiquitous. This places them in a distinctive position between those who had to adapt to digital technologies later in life and those who grew up with them from an early age. Generative AI now represents another major technological transition. In the coming years, a new gap may emerge between “AI non-natives,” who were educated before generative AI became commonplace, and “AI natives,” who grow up with AI as a routine part of learning. Zillennials may be well positioned to serve as a bridge between these groups.
Discussions of generative AI in education are also strongly influenced by developments in English-speaking countries, particularly in North America and Europe. At the same time, countries outside the English-speaking world have an opportunity to learn from both the successes and the failures of early adopters and to reconsider generative AI in ways that better reflect their own languages, cultures, and educational systems.
This presentation therefore explores Zillennials as a potential bridge between digital natives and non-natives, and between AI natives and non-natives, while considering the possibilities for intergenerational collaboration in the future of education.

Short Bio
Yasumasa Yamaguchi holds a Ph.D. in Information Sciences from the Graduate School of Information Sciences, Tohoku University, and a Master of Education in Advanced Teaching (M.Ed.) from the University of the People. His research lies at the intersection of performance science, music education, and technology, with a particular interest in how emerging technologies can shape learning and musical practice. More recently, his work has expanded to explore generative AI in education, including its adoption, perception, and implications for teaching and learning.

BESC Rising Star



Haocong Rao

Human Skeleton Empowered Behaviour Intelligence: From Identity and Action Recognition to Human Wellbeing

Abstract:
Human skeleton data provide a privacy-preserving and resource-efficient representation for understanding human identity, behaviour, and health. This talk presents our research on Human Skeleton Empowered Behaviour Intelligence, progressing from fundamental behaviour recognition to health assessment and real-world applications. We first introduce skeleton-based identity and action recognition, including self-supervised and unsupervised learning paradigms for robust gait and action representation. We then extend skeleton intelligence toward digital phenotyping and health assessment, covering gait-based disease assessment and LLM-empowered 3D gait and psychology copilots. Finally, we present translational skeleton applications such as non-invasive gait-based depression detection. We envision an agentic skeleton behavioural wellness ecosystem that integrates low-cost continuous monitoring, behaviour-health reasoning, and interpretable risk assessment to support proactive and responsible human wellbeing.

Short Bio
Dr. Haocong Rao received the PhD degree from College of Computing and Data Science from Nanyang Technological University, Singapore, in 2025. He is AI Singapore PhD Fellow (13 Awardees Worldwide in 2022) and Research Scientist with Nanyang Technological University, and has received several faculty offers from top Chinese universities, including a tenure-track full professor position at a top-6 CS school. He obtained his B.E. degree from South China University of Technology, China. Dr. Rao's research interests include Human Skeleton Empowered Behaviour Intelligence, Resource-Efficient Agentic AI for Healthcare, and Computational Social Science. He has published over 20 first-authored papers in top journals and conferences such as TPAMI, IJCV, CVPR, AAAI, IJCAI, ACM MM, and EMNLP. His works has been selected as IEEE TPAMI Featured Article (Top 0.2% Worldwide) and ESI Highly Cited Paper. He is a core organizer of several international workshops such as AAAI AIAA, IJCAI AIAA, IJCAI AIF, etc. He is the recipient the Distinguished PC Member of IJCAI (Top 3% Worldwide), Best Paper Award of IEEE HealthCom Conference, Best Paper Runner-Up Award of IEEE CloudCom Conference.

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