

IEEE CyberSciTech / DASC / PICom / CBDCom 2026

Detailed Program · 9 to 13 November 2026 · RMIT University, Building 80, Melbourne · All times AEDT (UTC+11)

Session codes CST = CyberSciTech, DASC, PICOM = PICom, CBD = CBDCom, TUT = Tutorial. Types are Regular (regular papers), Wksp (workshop or symposium), SS (special session) and WiP (work in progress), as in the Program at a Glance.

Talks run 20 minutes for regular papers, 15 for workshop, symposium and special session papers, and 10 for WiP papers. **Online** sessions have every talk online. In **Hybrid** sessions, **online** marks a talk given over Zoom.

Rooms 080.01.002 on Level 1 for the Opening, keynotes, Panels I, R and Q, BoF and Closing. 080.10.012, 080.10.013, 080.10.014 and 080.10.016 on Level 10 for the sessions, and Panel E in 080.10.016. 080.09.012 on Level 9 **L9** for online-only sessions. Registration, tea and lunch on Level 10. Every session room has Zoom, and the links go to registered participants.

Keynotes



Tuesday 10 November · 09:40–10:20 · 080.01.002 · PICom Keynote

Machine reasoning under epistemic uncertainty: Bayesian inference and graphical models using imprecise probabilities

Dr Branko Ristic · RMIT University

Abstract Machines are increasingly asked to reason over large volumes of uncertain, heterogeneous information: sensor measurements, natural-language reports such as “possible warship,” and expert domain knowledge. Much of this uncertainty is epistemic, arising from lack of knowledge rather than randomness. Standard Bayesian inference handles it by forcing imprecise knowledge into precise probabilities, and as a result it can be confidently wrong. This talk argues for integrity in machine reasoning: a model should represent exactly the knowledge available, no more and no less. We introduce imprecise probabilities, where belief is represented by credal sets (closed convex sets of probability distributions). This framework includes belief functions, possibility theory, and random sets as special cases. We show how Walley’s generalised Bayes rule can be computed in practice using bisection and bilinear programming. We then lift it to large models through credal valuation networks, a valuation algebra that supports local computation. Examples range from classification with an imprecise confusion matrix to ongoing threat assessment onboard an underwater vehicle. In these examples, the resulting probability bounds always contain the ground truth and are tighter than those of evidential networks. We close with the computational cost and open problems.

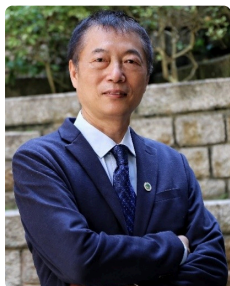
Biography Branko Ristic received the Ph.D. degree from Queensland University of Technology in 1995. After research and engineering positions in the former Yugoslavia and in Australia, he joined the Defence Science and Technology Organisation (now Defence Science and Technology Group, DSTG) in 1996. In 2003–04 he spent a year of study leave at IRIDIA, Université libre de Bruxelles, Belgium. Since 2015 he has been a Principal Research Fellow in the School of Engineering at RMIT University, where he has led some 20 research projects, mainly funded by DSTG. He is co-author of two books, *Beyond the Kalman Filter: Particle Filters for Tracking Applications* (Artech House, 2004) and *Particle Filters for Random Set Models* (Springer, 2013), as well as over 120 journal articles and 10 book chapters. His research interests include information fusion, Bayesian estimation, target tracking, Monte Carlo methods, search techniques, sensor control, and machine reasoning under uncertainty.

TBA

Wednesday 11 November · 09:00–09:40 · 080.01.002 · Keynote

Keynote (TBA)

Speaker and title to be announced.



Wednesday 11 November · 09:40–10:20 · 080.01.002 · DASC Keynote

Machine Unlearning: Ideas and Strategies

Prof. Wanlei Zhou · City University of Macau

Abstract Over the past decade, machine learning has experienced remarkable advancements, positively impacting our daily lives. Alongside this progress, a distinctive requirement has emerged—stemming from the AI era, in particular, from privacy concerns, usability considerations, and “the right to be forgotten”—leading to the development of a new concept known as machine unlearning. In this talk, I will first give a comprehensive exploration of machine unlearning and the reasons behind the existence of this necessity. Then, I will describe the methods and technologies used in machine unlearning. Third, I will talk about developments in this field, especially through a number of our recent work on machine unlearning as examples.

Biography Professor Wanlei Zhou is currently the Vice Rector (Academic Affairs), City University of Macau, Macao SAR, China. He received the B.Eng and M.Eng degrees from Harbin Institute of Technology, Harbin, China in 1982 and 1984, respectively, and the PhD degree from The Australian National University, Canberra, Australia, in 1991, all in Computer Science and Engineering. He also received a DSc degree (a higher Doctorate degree) from Deakin University in 2002. Before joining City

University of Macau, Professor Zhou held various positions including the Head of School of Computer Science in University of Technology Sydney, Australia, the Alfred Deakin Professor, Chair of Information Technology, Associate Dean, and Head of School of Information Technology in Deakin University, Australia. Professor Zhou also served as a lecturer in University of Electronic Science and Technology of China, a system programmer in HP at Massachusetts, USA; a lecturer in Monash University, Melbourne, Australia; and a lecturer in National University of Singapore, Singapore. His main research interests include security, privacy, and distributed computing. Professor Zhou has published more than 500 papers in refereed international journals and refereed international conferences proceedings, including many articles in IEEE transactions and journals. Prof Zhou is an IEEE Life Fellow.



Thursday 12 November · 09:00–09:40 · 080.01.002 · CyberSciTech Keynote online

Data Mining and Machine Learning for Analysis of Network Traffic

Prof. Ljiljana Trajkovic · Simon Fraser University

Abstract Collection and analysis of data from deployed networks is essential for understanding communication networks. Hence, data mining and statistical analysis of network data have been employed to determine traffic loads, analyze patterns of users' behavior, predict future network traffic, and detect traffic anomalies. The Internet has historically been prone to failures and attacks that significantly degrade its performance, affect the Internet connectivity, and cause routing disconnections. Frequent cases of various cyber threats have been encountered over the years and, hence, detection of anomalous behavior is a topic of great interest in cybersecurity. In described case studies, traffic traces collected by various collection sites are used to classify network anomalies. Various anomaly and intrusion detection approaches based on machine learning have been employed to analyze collected data. Deep learning, broad learning, gradient boosted decision trees, and reservoir computing algorithms were used to develop models based on collected datasets that contain Internet worms, viruses, power outages, ransomware events, router misconfigurations, Internet Protocol hijacks, and infrastructure failures in times of conflict. The reported results indicate that while performance of machine learning models greatly depends on the used datasets, they are viable tools for detecting the Internet anomalies.

Biography Ljiljana Trajkovic received the Dipl. Ing. degree from University of Pristina, Yugoslavia, the M.Sc. degrees in electrical engineering and computer engineering from Syracuse University, Syracuse, NY, and the Ph.D. degree in electrical engineering from University of California at Los Angeles. She is currently a professor in the School of Engineering Science, Simon Fraser University, Burnaby, British Columbia, Canada. Her research interests include communication networks and dynamical systems. Dr. Trajkovic served as IEEE Division X Delegate/Director, President of the IEEE Systems, Man, and Cybernetics Society, and President of the IEEE Circuits and Systems Society. She serves as Editor-in-Chief of the IEEE Transactions on Human-Machine Systems. She is a Distinguished Lecturer of the IEEE Systems, Man, and Cybernetics Society and was a Distinguished Lecturer of the IEEE Circuits and System Society. She is a Fellow of the IEEE.



Thursday 12 November · 09:40–10:20 · 080.01.002 · CBDCOM Keynote

Frontiers in Specialised AI: From Vision-Language Data Pipelines to DRL-Based Compiler Optimisation

Dr Sahraoui Dhelim · Dublin City University

Abstract As artificial intelligence shifts from broad foundation models toward specialized engineering solutions, custom AI architectures are reshaping how we address domain-specific computational challenges. This keynote explores the power and adaptability of specialized machine learning paradigms across two distinct operational frontiers: automated multimodal dataset curation and low-level system optimization.

First, we examine the deployment of Vision-Language Models (VLMs) to unlock unstructured historical artifacts by automating the digitization, transcription, and semantic tagging of complex Arabic manuscripts. We demonstrate how VLMs handle intricate calligraphic styles, diacritics, and physical degradation to synthesize high-fidelity datasets at scale. Second, we pivot to systems engineering, illustrating how Deep Reinforcement Learning (DRL) navigates the massive search spaces inherent in compiler optimization, specifically phase ordering and instruction scheduling. DRL agents learn performance heuristics that consistently outpace traditional compiler passes.

By examining both domains through the lens of high-dimensional, irregular decision spaces, this talk presents actionable methodologies for designing resilient, domain-tailored AI pipelines across data-centric and compute-centric infrastructure.

Biography Dr. Sahraoui Dhelim is the research director of the School of Computing at Dublin City University. Previously, he was a senior researcher at University College Dublin from 2021 to 2024 and a Visiting Researcher at Ulster University from 2020 to 2021.

He earned his Ph.D. in Computer Science and Technology from the University of Science and Technology Beijing. He also holds a Master's degree in Networking and Distributed Systems from the University of Laghouat, and a Bachelor's degree in Computer Science from the University of Djelfa.

His scholarly contributions include over 110 peer-reviewed publications, complemented by editorial responsibilities at leading journals and conferences. He was a keynote speaker at the International Conference on Applied Artificial Intelligence and Emerging Technologies (AAIET 2025). He received the IEEE HITC Award for Excellence in Hyper-Intelligence (Technical Achievement)

His professional recognition includes Fellow HEA, he also earned the Universal Design in Teaching and Learning badge. Universal Design for Learning (UDL).

Panels

Tuesday 10 November · 10:50–12:20 · 080.01.002

Panel I · Innovation in the Age of LLMs

How will LLMs transform the way innovations are created?

Innovation has traditionally depended on human creativity, experience, and methodologies such as TRIZ. Panel I explores how LLMs, combined with data and computational intelligence, may make innovation more dynamic, scalable, and collaborative — while opening new possibilities for human-AI co-creation.

Wednesday 11 November · 10:50–12:20 · 080.01.002

Panel R · Research in the Age of LLMs

How will LLMs change the way knowledge is discovered?

From data-intensive science and the “Fourth Paradigm” to AI-assisted reasoning and autonomous scientific discovery, Panel R explores how LLMs may transform the research process itself: asking questions, forming hypotheses, connecting knowledge across disciplines, designing experiments, and accelerating discovery.

Thursday 12 November · 10:50–12:20 · 080.01.002

Panel Q · HAI-Q

Thursday 12 November · 15:30–17:00 · 080.10.016

Panel E · Education in the Age of LLMs

How will LLMs influence teaching and learning?

When knowledge is available on demand and AI can explain, question, and generate, education faces a fundamental challenge: what should humans learn, and how should they learn it? Panel E explores LLMs not merely as answer machines, but as potential tutors, Socratic partners, and tools for personalized learning and cognitive empowerment.

Monday 9 November

Online day. Online paper sessions, several running through the breaks, and three tutorials

08:00

Registration opens · Level 10

Parallel sessions · 09:00–10:30

DASC-01 Regular Online Session (UK, Ireland and US West Coast): Tracks 1, 2 & 4

09:00–10:20 · 080.09.012 L9 Online · Chair *TBA*

09:00–09:20	Cross-Layer Deployment Posture Assessment for Post-Quantum Cryptographic Infrastructure Muhammad Ibrahim	#1571333040
09:20–09:40	Reducing False Positives in Real-Traffic SQL Injection Detection via Query-Parameter Representation Alignment Muhammed Torkey, Jawad Manzoor	#1571342510
09:40–10:00	Protocol-Sensitive Evaluation of Log Anomaly Detection: Component Costs and Target-Access Sensitivity on HDFS and BGL Hang Xiao, Janet Sung, Zhaoyi Li, Gangzhen Qian, Chuhong Xu	#1571335035
10:00–10:20	RouteGraph: A BGP-EVPN Ethernet-Segment Evidence Plane for AI Job Placement Rohan Dilip Bhosle	#1571340163

CST-01 Regular/WiP Online Session (UK, Americas, Japan and Australia): Tracks 2 & 6 and Work-in-Progress

09:00–10:25 · 080.10.013 Online · Chair *TBA*

09:00–09:20	Beyond Random Splits: A Leakage-Resistant Evaluation Protocol for Cross-Source Deceptive Email Detection Victor Chang, Weihang Huang, Hai Wang, Liucheng Guo	#1571341554
09:20–09:35	When 100% Accuracy is Misleading: Open-Set Rejection and Compositional Generalization in WiFi Sensing Feihuan Zhao, Kanoksak Wattanachote	#1571346547
09:35–09:55	Silent Invalidation from Post-Publication Revision of Advisory Version Ranges Logan Scott	#1571342809
09:55–10:15	Evaluating Tidy-up Functional Indicators Using Virtual Reality Games Kaoru Mitsuhashi	#1571342678
10:15–10:25	TamperGuard: Explainable Cross-Artifact Screening for Windows Timestamp Tampering WiP Khalid Farhan, Zihao Xu, Yuekang Li, Jingling Xue	#1571341877

CST-02 Wksp ACE-2026 Workshop

09:00–09:45 · 080.10.014 Online · Chair *TBA*

09:00–09:15	Digital Twin-Based Cybersecurity Framework for Real-Time Threat Prediction in Smart Transport Environments: A Technical Review Hazem Abu Adaiq, Farhinbanu Pathan, Md Israfil Biswas, Xiaohua Feng	#1571346473
09:15–09:30	Cloud-Native Security Framework for Open Ran Using Machine Learning and Deep Learning Techniques Migacz L., Muneer Tabassum, Xiaohua Feng, Vitaly Schetinin	#1571346531
09:30–09:45	Collaborative Access Control Multi-keyword Searchable Encryption for Multi-Owner and Multi-User Dequan Xu, Feng Xu	#1571335737

TUT-1a Tutorial Tutorial 1, part 1 of 2 · Resilient Delivery Pipelines, a hands-on Kubernetes tutorial

09:00–10:30 · 080.10.016 · Dr Tony de Souza-Daw, La Trobe University · Bring a laptop with VirtualBox

10:30–11:00 Morning Tea · Level 10 (online sessions run through)

PICOM-01 Regular/WiP **Online Session (Americas): Tracks 1 to 3 and Work-in-Progress**

10:30–12:20 · 080.09.012 L9 Online · Chair TBA

10:30–10:50	Machine Learning-Based Architecture for Intelligent Detection and Automated Response to Attacks in 5G Networks Cleitianne Oliveira, Jose Wellington Pereira Junior, Rossana Maria de Castro Andrade	#1571333015
10:50–11:10	Failure Prediction in Optical Sensor Time Series with Deep Learning Models Manoel Lopes Filho, Alex Ramos, Danilo R Vasconcelos, Rossana Maria de Castro Andrade	#1571335304
11:10–11:20	Identity Leakage Across Smartphone and Smartwatch Motion Sensors: A Privacy-Utility Study for Human Activity Recognition WiP Paulo Guilherme de Almeida Silva, Denise Rísia Andrade Carvalho, Rossana Maria de Castro Andrade	#1571343607
11:20–11:40	SkinVista: Examining an Augmented Reality and Machine Learning Mobile Application for Suggestive Dermatological Diagnostics in Black African Olamiposi Olaiya, Gerry Chan, Rotimi Aderibigbe, Omololu Enigbokan, Rita Orji	#1571335428
11:40–12:00	Enhancing Visual Preference Detection with Eye Movement Gaze Cascade and Multilayer Combinatorial Fusion Yuanhong Wu, Yiwei Sun, Sarah Zahaykevich, Liya Fukushima, Misbah Uddin, Christina Schweikert, Frank Hsu	#1571335449
12:00–12:20	Early-Warning Anomaly Detection Benchmarking for Cascading Failures in Cloud-Native Microservices Vigneshwarr Venkatesan	#1571338748

CST-03 Regular **Track 2: Cyber Security, Privacy & Trust (Online I)**

10:30–12:30 · 080.10.013 Online · Chair TBA

10:30–10:50	ProTG: Multi-Granularity APT Detection and Evidence-Grounded Provenance Reasoning Jiahao Wang, Peng Gao, Haonan Guo, Wenhao Zhang, Yibo Chen, Zhengning Pang, Chenye Zhou, Xin Jiang	#1571321671
10:50–11:10	OCVM: Verifying Security-Constraint Repairs for AOSP Framework Patch Identification Yibo Chen, Peng Gao, Jiahao Wang, Wenhao Zhang, Haonan Guo, Tu Mingming	#1571321945
11:10–11:30	VaPT: Value-Guided and Feedback-Aware Planning for Automated Web Pentesting Wenhao Zhang, Peng Gao, Kun Hu, Jiahao Wang, Yibo Chen, Haonan Guo	#1571321964
11:30–11:50	KnowledgeAug: Semantics-Constrained Attack Subgraph Augmentation for Provenance-Based APT Detection Haonan Guo, Peng Gao, Yuxing Wu, Wenhao Zhang, Yibo Chen, Jiahao Wang	#1571322060
11:50–12:10	ST-XGAT: An Explainable Spatio-Temporal Graph Attention Framework for Dynamic APT Detection Sirui Yao, Peng Gao, Qingyang Tong, Yuxing Wu, Xiang Gao, Jie Xu, Haiwei Huang, Shengzhou Wu	#1571332917
12:10–12:30	WFA-Net A Lightweight AlexNet-Inspired CNN with Weighted Focal Loss for Multi-Class Network Intrusion Detection Zhijia Ke, Peng Gao, Jiahao Wang, Qingyang Tong, Yu Shen, Weilong Yan	#1571334259

CST-04 Regular **Tracks 4 & 5: Cyber Social Computing & Cyber Intelligence (Online I)**

10:30–12:30 · 080.10.014 Online · Chair TBA

10:30–10:50	Reliability-Gated Residual Weighting for Heterogeneous Multi-Teacher Knowledge Distillation Sifeng Wang, Kexuan Du, Chao Yan, Wanli Huang, Biao Qu	#1571334842
10:50–11:10	Knowledge Distillation for LLM-Based Cybersecurity: Methods, Risks, and Evaluation Kexuan Du, Sifeng Wang, Zhen Wang	#1571334910
11:10–11:30	Budget-Aware Failure Recovery in Dynamic Code-Generation Workflows Yan Yao, Mingzeng Zhao, Jianguo Liang, Jing Xiong, Wei Guan, Shiyong Qian, Jian Cao	#1571334979
11:30–11:50	ASTD: Aspect-Aware Steiner-DPP for Diversified Tool Composition Recommendation from Natural-Language Queries Hao Zhang, Xiuwen Yu, Zhaohui Cui, Sifeng Wang, Wanli Huang, Chao Yan	#1571342614
11:50–12:10	AdaDispRec: Adaptive Diffusion Training with Label-Aware Representation Dispersion for Sequential Recommendation Xiuwen Yu, Hao Zhang, Zhaohui Cui, Sifeng Wang, Wanli Huang, Chao Yan	#1571342696
12:10–12:30	PERD: Personalized Exposure-aware Residual Diffusion Recommendation for Long-tail Sequential Recommendation Xiuwen Yu, Hao Zhang, Zhaohui Cui, Sifeng Wang, Wanli Huang, Chao Yan	#1571342723

TUT-1b Tutorial **Tutorial 1, part 2 of 2 · Resilient Delivery Pipelines, a hands-on Kubernetes tutorial**

11:00–12:30 · 080.10.016 · Dr Tony de Souza-Daw, La Trobe University

12:30–13:30 Lunch · Level 10 (CST-05 and CST-06 start at 13:00)

Parallel sessions · 13:00–15:00**DASC-02** Regular **Online Session (Asia and Australia): Tracks 1, 2 & 4 and Regular Paper**

13:30–14:50 · 080.10.012 Online · Chair TBA

13:30–13:50	From Prompt to Code: A Dual-Stage LLM-Based Security Assessment System for AI-Assisted Code Generation Thi-Hong-Hiep Nguyen, Harikrishna Warriar, Yogesh Gupta	#1571317660
13:50–14:10	ChangeGuard: Authorizing Identity-Baseline Updates under Organizational and Adversarial Drift Shantanu Parashar, Shatrunjay Rawat	#1571342943
14:10–14:30	Grouped Risk Margins in Physical Units for Dependable VPP Dispatch Screening on Unseen Feeders Chi Cui, Jiaying Hu, Zhijuan Jia, Haiping Du, Jia Jia	#1571342272
14:30–14:50	Feature-Space Flatness and Adversarial Transferability Norihiro Shimada, Seiichi Ozawa, Hiroaki Inoue, Tao Ban, Geon-Kyu Bang, Takeshi Takahashi	#1571346313

CST-05 Regular **Track 2: Cyber Security, Privacy & Trust (Online II)****13:00–15:00** · 080.10.013 Online · Chair *TBA*

13:00–13:20	Hiding Bias in Multimodal Explanations: A Fairwashing Attack on Post-hoc Attribution Tian Qiu, Yan Zhang, Qianmu Li, Haifeng Zhao, Yan Wang	#1571322031
13:20–13:40	A Recursive-Decoding Enhanced CNN-BiLSTM with Self-Attention Pooling Model for Web intrusion detection Yan Wang, Qianmu Li, Shuo Qiu, Tian Qiu	#1571324041
13:40–14:00	A Commitment-Bound Sequential Accuracy Verification Scheme for ML Models Chaoyue Tan, Yuling Chen, Yixian Yang, Ma Jian	#1571341397
14:00–14:20	Cross-Lingual Generative Text Steganography via Deterministic Probability Reconstruction and Probability-Balanced Keyed Mapping Zhang Wentao, Ma Jian, Jiayue Guan, Li Haifeng, Ren Wenshuo, Su Tao, Yuling Chen	#1571342493
14:20–14:40	Global Attack Success Rate Understates Client-Tail Backdoor Exposure in Personalized Federated Learning Yechan Wang, Huang Li, Kai Wang, Yuling Chen	#1571342532
14:40–15:00	Lightweight Privacy Preserving Data Aggregation for Sequentially Connected CryptoBioChip Devices Xia Dong, Chenxi Lyu, Yaqing She, Hui Lin, Kaiwen Chen, Chen Dong	#1571340275

CST-06 Regular **Tracks 1 & 5: Cyberspace Theory & Cyber Intelligence (Online II)****13:00–15:00** · 080.10.014 Online · Chair *TBA*

13:00–13:20	DAWU: An Density-Aware Adaptive Windowing Updating Method for Real-Time Streaming Tensor Completion Cong Peng, Linshu Chen, Yuxiang Chen, Shenaocheng Zhang, Liang Li, Xiangwei Meng, Zulong Diao, Wei Liang	#1571350929
13:20–13:40	Preference-Aware Proactive Caching via Asynchronous Federated Learning for Vehicular Edge Networks Jing Shang, Shunmei Meng, Qianmu Li	#1571313794
13:40–14:00	ESNet: Feature-Selective Fusion Network for Building Segmentation in Remote Sensing Images Yuxin Zhao, Guo Yuxiang, Haiyang Lin, Qi Liu, Yonghong Zhang, Xiaodong Liu, Junfei Wang	#1571323040
14:00–14:20	DWST-NET: Dynamic Weighted Spatiotemporal Network for Long-term Radar Echo Extrapolation with Multi-source Data Fusion Haiyang Lin, Jin Wang, Qi Liu, Yonghong Zhang, Xiaodong Liu, Junfei Wang	#1571323070
14:20–14:40	PA-SANF: Price-Anchored Sparsity-Aware News Fusion for Robust Crude Oil Price Forecasting Zihao Zhang, Jiaqi Liang, Ruimin Wang, Juan Xu	#1571341828
14:40–15:00	TSRecmaNet: Temporal-Spectral Representation Refinement and Cross-Modal Alignment Network for Sales Forecasting Jiaqi Liang, Zihao Zhang, Ruimin Wang, Juan Xu	#1571350913

TUT-2 Tutorial **Tutorial 2 · Full-Duplex Spoken Dialogue for Embodied AI****13:30–15:00** · 080.10.016 Hybrid · Dr Ao Guo, Nagoya University**15:00–15:30** *Afternoon Tea · Level 10 (online sessions run through)*

PICOM-02 Regular/WiP Online Session (Korea, Europe and Israel): Tracks 1 & 4 and Work-in-Progress

15:30–17:00 · 080.10.012 Online · Chair *TBA*

15:30–15:50	Autonomous HVAC Control in a Real-World Building with a Multi-Agent LLM Framework Minji An, Geonwoo Ji, Hyunkyeong Hwang, Dongwoo Kwon	#1571335050
15:50–16:10	Toward Smart Perioperative Healthcare: A Multi-View Feature Model for Early Intraoperative Hypotension Prediction Hesna Fartas, Ouarda Zedadra, Amina Zedadra, Mohamed Nemissi, Hadil Bencheikh, Soundous Bouhmame, Antonio Guerrieri	#1571342831
16:10–16:20	Resilient Edge AI Architecture with Redundant Validation for Cross-Border Traffic Monitoring WiP Przemysław Zielony, Krzysztof Piotrowski, Janusz Kaczmarek	#1571333632
16:20–16:30	Participation Is Not Selection: A Measurement Testbed for Federated Learning over IEEE 802.15.4 Sub-GHz Links WiP Krzysztof Turchan, Krzysztof Piotrowski	#1571342092
16:30–16:50	Trust me, I'm a robot: Responses to uniform or differential behavior of a security robot Michal Ezra, Ohad Inbar, Joachim Meyer	#1571342305
16:50–17:00	Towards LLM-Enabled Cross-Domain Data Processing: A Semantic Middleware Architecture and Evaluation Framework WiP Krzysztof Piotrowski, Igor Koropiecki, Przemysław Zielony, Krzysztof Turchan, Wiktor Zawada	#1571342647

CST-07 Regular Tracks 2 & 5: Cyber Security & Cyber Intelligence (Online III)

15:00–16:40 · 080.10.013 Online · Chair *TBA*

15:00–15:20	Cryptographic Proof of Confidentiality for Neural Network Execution on Commodity Desktop Systems as an Alternative to Conventional Cloud AI Infrastructure Jhaswin Arjun Suresh	#1571334206
15:20–15:40	An AI-Driven End-to-End Secure Framework for Smishing Protection in 6G Networks Mosiur Rahaman, Nicko Cajés, Akshat Gaurav, Shavi Bansal, Kwok Tai Chui, Brij B. Gupta	#1571334548
15:40–16:00	Ethical Boundaries and Responsibility Attribution in Cybersecurity Decision-Making Driven by Large Language Models: A CiteSpace Knowledge Mapping Analysis Zhong Xijin, Qi Cheng Tang, Li Shu	#1571334858
16:00–16:20	APT Detection Scheme Based on a Dual-Path Temporal-Feature Transformer Mahmoud Basi, Tao Shang, Mustafa Mhamed, Weiwei Wang	#1571345161
16:20–16:40	Getting the First Read Right: Breaking the Context Wall for Structured LLM Analysis of Scientific Papers Haoyu Chen, Wenmin Lin, Xiaotong Wu	#1571351712

CST-08 Regular **Tracks 2 & 6: Cyber Security & Cyber Life (Online)****15:00–16:40** · 080.10.014 Online · Chair *TBA*

15:00–15:20	Cross-Ledger Auditable Model Sharing for Federated Medical Image Learning Yan Yao, Huihui Zhang, Biwei Yan, Junhua Wu, Guangshun Li	#1571342728
15:20–15:40	Knowledge Distillation for Edge-Intelligent Cyber-Physical System Security: A Structured Mapping Review Kexuan Du, Sifeng Wang, Zhen Wang	#1571350975
15:40–16:00	EyeCoOp: Knowledge Guided Prompt Learning for Fundus Disease Classification Jiaqi Xie, ZhiWen Wang, Cong Li, Jianuo Han, Xiaohong Yang, Lei Liu, Jinfeng Wang	#1571337377
16:00–16:20	Multimodal Retrieval-Augmented Generation with Tongue Diagnosis for Personalized TCM Diet Recommendation Cailin Zeng, Wenmin Lin, Lu Sun, Xiaotong Wu	#1571351701
16:20–16:40	LactaLink: Enabling a Digital Ecosystem for Breastmilk Donation and Recipient Care Mia Amor C Tinam-isan, Jerame B. Beloy, Christina Barazona, Nona Krislin Gomez, January Naga	#1571341475

TUT-3 Tutorial **Tutorial 3 · Title to be announced****15:30–17:00** · 080.10.016 · Dr Ruichen Cong, Waseda University**18:00–20:00** **Welcome Reception** · venue TBA

Tuesday 10 November

Opening, PICom keynote, Panel I and paper sessions

08:30	Registration · Level 10
09:00–09:40	Opening Ceremony · 080.01.002
09:40–10:20	PICom Keynote · Dr Branko Ristic (RMIT University) <i>Machine reasoning under epistemic uncertainty: Bayesian inference and graphical models using imprecise probabilities · 080.01.002</i>
10:20–10:50	Morning Tea · Level 10
10:50–12:20	Panel I · Innovation in the Age of LLMs · 080.01.002
12:30–13:30	Lunch · Level 10 (the online sessions below run during lunch)

Online sessions during lunch · 12:30–13:30

CST-09	Regular	Track 3: Cyber Physical Computing & Systems (Online)
12:30–13:30	080.10.013	Online · Chair TBA
12:30–12:50	Robust Shrinking-Tube Model Predictive Control for PV-Battery Building Energy Management #1571322903 Nanyan Gai, Chengdian Yang, Stefano Mazzoni, Ke Yan	
12:50–13:10	Latent Semantic Goal-Driven Navigation Framework for Indoor Environments #1571334582 Jianguo Zhao, Xinqi Yang, Qiao Pan, Mei Wang	
13:10–13:30	Robust and Efficient Multi-Paxos for Blockchain-enabled Data Synchronization in Cloud-Edge Collaboration #1571351703 Wenmin Lin, Zihao Chen, Chenxi Liu, Xiaotong Wu	

CBD-01	Regular	Online Session: Track 2 (I)
12:30–13:30	080.10.016	Online · Chair TBA
12:30–12:50	HypeGuard-FL: A Dual-Branch Structural Sanitization Framework for Secure Federated Hypergraph Learning #1571324073 Zhuoyue Li, Xinjun Pei, Qimeng Yang, Weishang Wu, Peiyuan Guan, Zhao Yunlong	
12:50–13:10	Federated Critical Parameter Synchronization with Endogenous Self-Distillation for Heterogeneous Graph Learning #1571324212 Maoxu Wang, Xinjun Pei, Jinmiao Song, Ping Jiang, Weishang Wu, Zhao Yunlong	
13:10–13:30	Authentication and Key Management Scheme for Task-Oriented Multi-Agent Environments #1571342552 Chenxu Wang, Ying Zhu, Fangfang Dang, Boyu Liu, Zhaotai Meng, Xuanang Ding, Peng Lin	

Parallel sessions · 13:30–15:00

PICOM-03	Regular	Tracks 4 & 5: Next Gen Smart Environments & Edge Intelligence Applications
13:30–15:00	080.10.012	Chair TBA
13:30–13:50	Tupã: An Approach for Anomaly Detection in Non-IID Smart Grid Data Using Federated Learning #1571343066 Juliana Fernandes Dal Piaz, Julia Rocha, Pablo Rangel, Claudio Miceli de Farias	
13:50–14:10	Adaptative Random Sampling Applied to an Unbalanced Scenario #1571343068 Mayara Aragão, Mariana Aragão, Juliana Fernandes Dal Piaz, Claudio Miceli de Farias	
14:10–14:30	EVEREST: Indoor Presence Detection Using COTS Wi-Fi Devices and Passive Sensing #1571335258 Francisco Laurindo C. Junior, Rossana Maria de Castro Andrade, Tales Paiva Nogueira	
14:30–14:50	Continual Graph Learning in the Edge-Cloud Continuum via Model Souping #1571341864 Khaing Wah Swe, Thanda Shwe, Israel Mendonca, Masayoshi Arimitsugi	

CST-10 Regular **Track 1: Cyberspace Theory & Technology****13:30-15:00** · 080.10.013 · Chair *TBA*

13:30-13:50	Joint Traffic-State Estimation and Forecasting with a Spatiotemporal Heterogeneous Graph Neural Network Zilang Wang, Benxiong Huang, Lai Tu	#1571324631
13:50-14:10	D-SFC: Workload-Aware Dual-Reference Search for 2D Piecewise Space-Filling Curves Yan Yao, Shiyong Qian, Jian Cao, Jiaojiao Li, Zhaotang Hou, Hao Zhang, Wenshun Wang	#1571331901
14:10-14:30	3D Scene Reconstruction and VR Space Generation Using Panoramic Depth Data Captured by a Smartphone Hiroki Kobayashi, Katashi Nagao	#1571332638
14:30-14:50	Multi-Criteria Decision Optimization for Slice-Aware Intermediate UPF Placement Yaseen Al Doori, Leo Popokh, Raul Rodriguez, Suku Nair	#1571342785

CST-11 Regular **Tracks 5 & 6: Cyber Intelligence & Cyber Life****13:30-15:00** · 080.10.014 · Chair *TBA*

13:30-13:50	MedFlowAgent: An LLM-Based Agent for Intelligent Medication Workflow Management to Assist Ward Nurses Xiaoyan Zhang, Chenyang Li, Ruichen Cong, Zhihe Zhang, Zhao Rui, Qingguo Zhou, Qun Jin	#1571334014
13:50-14:10	Accident Severity Prediction Using Federated Learning and Synthetic Data Augmentation David Jackman, Dunwei Wen, M. Ali Akber Dewan	#1571335130
14:10-14:30	CSAM: Segment Anything Model Meets Concept Learning for Scene Parsing of Agricultural Landscapes Zhongqi Lin, Zengwei Zheng, Shenfei Pei, Yunhan Zheng, Bo Sun, Si Yehuan	#1571341794
14:30-14:50	A Framework for Making Physical Objects into AR- and LLM-based Interactive Physical Agents Kota Sakai, Akishige Yuguchi, Yoshio Matsumoto	#1571324144

CBD-02 Regular **Track 4: Networking and Communications****13:30-15:00** · 080.10.016 · Chair *TBA*

13:30-13:50	MGDFormer: A Modality-Gated Distributional Transformer For Electricity Price Forecasting Xiaoxin Huang, Meize Chen, Chenhao Wu, Zheng Wen, Hiroshi Onoda, Jiang Liu	#1571323794
13:50-14:10	Adaptive Access Point Scheduling for Seamless Communication in Dense and Dynamic Edge Environments Feng Hanxuan, Kazunori Sugiura	#1571331907
14:10-14:30	ReDirect: LLM-Guided Directional Neural Resets for Multi-Agent UAV Emergency Communications Wen Qiu, Xun Shao, Wai Shiang Cheah, Wei Zhao, Hiroshi Masui	#1571332166
14:30-14:50	Codebook-Aided JSCC for Image Transmission Toward MLLM-Based Understanding in IoV Shilong Zhang, Jinhua Chen, Tao Yu, Tong Liu, Weiyu Wang, Franck Junior Aboya Messou, Keping Yu	#1571360765

15:00-15:30 *Afternoon Tea · Level 10*

DASC-03 Regular **Track 2: Security, Privacy, and Trust in Systems and Networks**

15:40–17:00 · 080.10.012 Hybrid · Chair TBA

15:40–16:00	A TEE-Protected Framework for Explainable LLM-Assisted Microgrid Decision Support	#1571323299
	Fusen Guo, Zhibo Zhang, Wei Song, Haoxiang Tian, Jun Zhang, Mo Huadong	
16:00–16:20	Unsupervised Anomaly Detection in Industrial Internet of Things: What's Next?	#1571332757
	Mariya Halitim, Talal Halabi, Martine Bellaïche, Steven Ding	
16:20–16:40	Automated Zero-Day Vulnerability Detection and Patching via Prompt-Optimized Language Models	#1571335266
	Aziz Srairi, Oussama El Boujjadia, Fehmi Jaafar, Haïfa Nakouri, Manel Abdelkader	
16:40–17:00	Policy-Bound Encrypted Objects: Dependable Metadata Binding and Rollback-Aware Storage online	#1571335550
	Mario Raso, Daniele Friolo	

CST-12 Regular **Tracks 2 & 3: Cyber Security & Cyber Physical Computing**

15:30–17:00 · 080.10.013 · Chair TBA

15:30–15:50	FAWM: Frequency-Domain Watermarking Backdoor Attack against Conditional Generative Models	#1571342699
	Yuetong Lu, Kai Zhao, Yuke Xiong, Siyang Lu, Wei Lu	
15:50–16:10	PUMA: Dual-Uncertainty Regularization for Defending Against Model Inversion Attacks	#1571345051
	Dehua He, Kang Han, Di Wu, Gaowen Liu, Ramana Rao Kompella, Wei Xiang	
16:10–16:30	S2D-ODE: Sparse-to-Dense Neural ODE for Full-Field Tunnel Response Perception under Sparse Sensing	#1571322381
	Zicong Zhao, Mingxuan Xie, Junchen Ye, Xuyan Tan, Bowen Du	
16:30–16:50	Weight-Aware Resequencing of Electric Truck Platoons for Battery Energy Balancing	#1571332213
	Boyu Shu, Zhiwu Huang, Feng Zhou, Tianji Lv, Hao Lin, Cunrui Wang, Weirong Liu	

CST-13 Regular **Tracks 1, 4 & 6: Cyberspace Theory, Cyber Social Computing & Cyber Life**

15:30–17:00 · 080.10.014 · Chair TBA

Talk 1	Joint Orchestration and Serverless Scheduling for Dynamic Agentic Workflows	#1571342917
	Yan Yao, Huihui Zhang, Junhua Wu, Guangshun Li	
Talk 2	Persona and Few-Shot Prompting for Large Language Model-Based Cyber-Social Analysis of Tourism Motivation	#1571334966
	Zhenzhen Liu, Fumito Masui, Juuso Eronen, Michal Ptaszynski	
Talk 3	An Educational Behavior Analysis Framework Based on Spatiotemporal Event-Evidence	#1571331338
	Jingsen Huang, Yishui Zhu, LuYang Wang, James Gwenani	
Talk 4	A Causal Context-Augmented Framework for Personal Health Prediction Enabled by LLMs	#1571350232
	Ruichen Cong, Zecheng Ren, Yinghan Xu, Shoji Nishimura, Atsushi Ogihara, Qun Jin	
Talk 5	Spatial Resolvability-Guided Vital-Sign Separation for Two Adjacent People Using FMCW Radar	#1571346614
	Xiangshu Qi, Jianhua Ma	

CBD-03 Regular **Tracks 1, 3 & 4: Theories, IoT and Networking****15:30-17:00** · 080.10.016 · Chair *TBA*

15:30-15:50	Provenance-Gated Agent Collaboration for Multimodal IoT Intrusion Detection Yibin Zhou, Jianhua Li	#1571335041
15:50-16:10	Understanding and Controlling Shared-Endpoint Message Passing in Traffic Interaction Graphs Yibin Zhou, Chaofeng Zhang, Yijun Lu, Xiao Yang, Gaolei Li, Jun Wu, Jianhua Li	#1571335390
16:10-16:30	A Scheduling Method for Division-Based Broadcasting Considering Error Resilience Yusuke Gotoh	#1571333681
16:30-16:50	Same Footage, Opposite Sign: Cadence, Coverage and Cancellation in UAV Video Counting Kou Xuri, Musen Cheng, Taihui Liu, Hiroshi Masui	#1571335555

Wednesday 11 November

Keynote (TBA) and DASC keynote, Panel R, special sessions, workshops and paper sessions

08:30	Registration · Level 10
09:00–09:40	Keynote (TBA) · 080.01.002
09:40–10:20	DASC Keynote · Prof. Wanlei Zhou (City University of Macau) <i>Machine Unlearning: Ideas and Strategies</i> · 080.01.002
10:20–10:50	Morning Tea · Level 10
10:50–12:20	Panel R · Research in the Age of LLMs · 080.01.002
12:30–13:30	Lunch · Level 10 (the online sessions below run during lunch)

Online sessions during lunch · 12:30–13:30

CBD-04 Regular Online Session: Track 1 12:30–13:30 · 080.10.016 Online · Chair TBA		
12:30–12:50	GLAE²-Nets: Global-Local Autoencoder² Networks with Orthogonal Constraints for Multi-View Clustering Mei Lu, Xiaolu Zhao, Xiangjun Zhao	#1571332666
12:50–13:10	ReCAST-YOLO: Recalibrated Cross-Scale Fusion with Mixed Local Channel Attention for Small Traffic Sign Detection Han JiZhou, Zhiyu Wu, Shenghui Cui, Zhenjun Dong, Sudan Xin, Zunwang Ke	#1571340946
13:10–13:30	Smart Cocoa Pod Monitoring System Using Multitask Deep Neural Network Daniel Chee Ho Ong, Wai Shiang Cheah, Xun Shao, Nurfaeza Jali, Navies Maisin	#1571341357

Parallel sessions · 13:30–15:00

DASC-04 Regular/WiP Tracks 1 & 3 and Work-in-Progress 13:30–15:00 · 080.10.012 · Chair TBA		
13:30–13:50	Fault-Tolerant Lossy-Compressed Allreduce for Approximate Collective Communication Yao Hu	#1571315246
13:50–14:10	Evolutionary Generation of Hardware-Trojan Variants in Gate-Level Netlists via Circuit Redundancy Sho Yoshimi, Nozomu Togawa	#1571333522
14:10–14:30	Efficient Container Restoration outside Heavily Loaded VMs Shota Kimoto, Kenichi Kourai	#1571335515
14:30–14:50	Autonomic UPF Selection in 5G Core Networks Using GRASP Bilal Ghani, Amine Fassihi, Hakima Chaouchi	#1571342755
14:50–15:00	Per-Chunk Multipath Dispersal for CCNx Content Retrieval over Heterogeneous Paths WiP Junichi Funasaka	#1571346607

CST-14 SS **SecTrust-AI Special Session: Security and Trustworthiness of Large AI Models and Agents (I)**

13:30-15:00 · 080.10.013 Hybrid · Chair *TBA*

13:30-13:45	Preliminary Report On A Resource-Aware Automated Framework for Indirect Prompt Injection on HTML Accessibility Trees online	#1571346363
Calin Anton, Dana Cobzas, Benjamin Lawrence, Nolan Schlacht		
13:45-14:00	Towards Lifecycle-Aware Software Composition Analysis: An Empirical Study online	#1571348300
Chaofan Li, Yutao Hu, Yueming Wu, Deqing Zou		
14:00-14:15	RoadMap+: LLM-Driven Completion of a Universal Data Poisoning Attack Knowledge	#1571346663
Tarek Chaalan, Shaoning Pang, Joarder Kamruzzaman		
14:15-14:30	SCORE: Continuous-Output Spiking via Non-Reset Membrane Potentials for Energy-Efficient EEG-Based Affect Tracking	#1571347859
Yang Chi, Man Yao, Chengxi Xie, Jihong Wang, Shile Qi, Yuzhe Zhang		
14:30-14:45	EGMCJ: Evidence-Guided Minority Correction for Multi-LLM Judge	#1571348421
Weiqi Mao, Wenli Zhang, Xuanzhe Liu, Tiechui Yao, Bo Chai, Mengjie Shi		
14:45-15:00	A Layered and Phase-Oriented Security Framework for LLM Agents	ID TBC
Yukuan Yang, Chen Yang		

CST-15 SS **LM-CSC&CEA Special Session**

13:30-14:15 · 080.10.014 Hybrid · Chair *TBA*

13:30-13:45	An Isaac Sim-based Framework for Synthetic Scene Generation and Automatic Annotation Generation online	#1571334561
Qi Zhang, Muxing Li, Mei Wang, Qiao Pan		
13:45-14:00	LLM Harness Engineering for Regulatory Compliance: Domain-Agnostic Rules Derived from First Principles online	#1571344579
Shaning Pang, Muhamad Magableh, Suryani Lim		
14:00-14:15	Large Language Model-Based Patient Agent Generation for Cognitive Disorders	#1571341871
Fengwei Cai, Qiao Pan, Mei Wang, Dehua Chen		

CST-16 SS **Cyber-IoT Special Session**

14:15-15:00 · 080.10.014 Hybrid · Chair *TBA*

14:15-14:30	Task-Priority-Aware Uplink NOMA Power Allocation for UAV Swarm-LEO Satellite Communications online	#1571342103
Qingning Shi, Qichao Xu		
14:30-14:45	GridMoE: Context-Aware Anomaly Detection in Topology-Varying Power Grids	#1571351291
Mingwei Xu, Xiaoliang Wang, Qinnan Hu, Linkang Du		
14:45-15:00	A Digital Twin-Driven Collaborative Abnormal Sensing Framework for Metaverse-Assisted Internet of Vehicles	#1571345572
Rui Xing, Minghui Dai, Jiange Jiang, Kehan Huang		

CBD-05 Regular **Track 2: Systems, Management and Security**

13:30-15:00 · 080.10.016 · Chair *TBA*

13:30-13:50	Multi-Cloud Provider Feature Compatibility Metrics	#1571342039
Dac Tuan Thanh Nguyen, Tony De Souza-Daw		
13:50-14:10	FedFold: Hard-Case-Aware Federated Parameter-Efficient Adaptation for Protein Structure Prediction	#1571342460
Bin Wu, Jue Wang, Xuanmeng Sha, Bingchang He, Weiwei Hu, Fumihiko Ino		
14:10-14:30	Cloud-assisted Generative Replay for Continual Learning in Edge Intelligence	#1571342513
Thanda Shwe, Masayoshi Aritsugi		
14:30-14:50	UAP-DB: Latent-Trigger Backdoor Attacks on DreamBooth Personalization	#1571342597
Yuke Xiong, Jingyao Xu, Siyang Lu, Wei Lu		

Parallel sessions · 15:30–17:00

PICOM-04 Regular/WiP **Tracks 2 & 3, Regular Paper and Work-in-Progress**15:30–17:00 · 080.10.012 · Chair *TBA*

15:30–15:50	Blur-Aware Video Deblurring via Optical Flow Guidance Ying Fu, Jifan Zhang, Jing Peng, Xiaojie Xiaojie Li, Jiliu Zhou	#1571319896
15:50–16:10	AOE: Adversarial Optimized bias Elimination for embedding-based Recommender System Haofeng Li, Jinyao Xu, Ian G. Harris	#1571321855
16:10–16:30	GeoCausal-Alert: A Counterfactual Causal and Geospatially Consistent Early-Warning System for Hydrological Hazards Saddaf Rubab, Hafsa Waheed	#1571342630
16:30–16:50	Attention-Based Intermediate Feature Fusion Network for Robust Retinal Disease Classification from Multimodal OCT Data Dhiya Sewnundan, Alfa P Elejo, Marion O Adebiyi, Nalindren Naicker	#1571345505
16:50–17:00	Reservoir Computing for Urban Air Quality Forecasting: A Comparative Study of Recurrent Architectures WiP Francesco D'Amore, Delia Evelina Bruno, Antonio Guerrieri, Francesco De Simone, Carlo Mastroianni, Andrea Vinci, Franco Cicirelli, Mariantonia Bencardino	#1571345625

CST-17 SS **SecTrust-AI Special Session (II)**15:30–15:45 · 080.10.013 Online · Chair *TBA*

15:30–15:45	Enabling Usage Control for Transformers via Keyed Dense Structural Mixing Jinyong Zhang, Lisha Yao, Zhi Li	#1571348647
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CST-19 Wksp **HMGI-CPSS 2026 Workshop**15:45–17:00 · 080.10.013 Hybrid · Chair *TBA*

15:45–16:00	Foreground-Adaptive Memory Bank Learning for Object-Centric Industrial Anomaly Detection online Jiali Wang, Jiani Wei, Bowen You, Haokun Wang, Zhuxin Si, Mingrui Hou, Jing Liang	#1571341921
16:00–16:15	Detection-Oriented Underwater Image Enhancement with Object-Frequency Preservation online Huaxu Li, Ting Wang, Zishuai Wang, Xuanzhen Zhang, Yuan Fang	#1571342741
16:15–16:30	Crop Protection and Two-Dimensional Point Selection for UAV Weed Perception online Ting Wang, Huaxu Li, Zishuai Wang, Yugang Yang, Yuan Fang	#1571342742
16:30–16:45	Illumination-Aware Temporal Consistency Refinement for Low-Light Video Enhancement online Zishuai Wang, Huaxu Li, Ting Wang, Wenbo Wu, Yuan Fang	#1571342886
16:45–17:00	Early Failure Prediction for LLM Agent Execution Chains Using Multidimensional Runtime Features Wenbo Wu, Aojie Xu, Yuan Fang	#1571342732

CST-18 Wksp **HAIDC 2026 Workshop****15:30–17:00** · 080.10.014 Hybrid · Chair *TBA*

15:30–15:45	Keeping Older Adults in Control: A Human-Centred Conversational Health Coach for Movement at Home online Justin Gallagher	#1571341697
15:45–16:00	From Social Potential to Deployment Requirements: Evaluating a Culturally Adapted Conversational AI Avatar in Japanese Elderly Care Eva Theresa Jahn, Moritz Hartung, Yegang Du, Toshimi Ogawa, Rainer Wieching, Dave Randall, Yasuyuki Taki, Volker Wulf	#1571336921
16:00–16:15	A Feasibility Study of a Personalized Social Participation Support Platform: Usability Evaluation and Requirements Identification for the Development of a Virtual Link Worker Toshimi Ogawa, Yegang Du, Parastou Azari Gargari, Jasmin Lehmann, Rainer Wieching, Yuzuru Nakagaki, Yasuyuki Taki	#1571341344
16:15–16:30	Design and Preliminary Evaluation of an LLM-Based Social Event Recommendation and Sharing System for Older Adults Yegang Du, Toshimi Ogawa, Gabriele Trovato, Rainer Wieching, Yasuyuki Taki	#1571341356
16:30–16:45	Designing an AI Companion App to Facilitate Real-World Social Engagement Among Senior Populations Jessica Takabayash, Toshimi Ogawa, Yegang Du, Yasuyuki Taki	#1571342724
16:45–17:00	Beyond Sentiment: Comparing Affective Polarity and Stance in Japanese YouTube Comments on Human Papillomavirus Vaccination Yinghan Xu, Ruichen Cong, Mai Yaguchi, Masahiko Sakaguchi, Kayoko Katayama, Qun Jin, Shoji Nishimura, Atsushi Ogihara	#1571343232

CBD-06 Regular **Tracks 2 & 3 and Regular Papers****15:30–17:00** · 080.10.016 Hybrid · Chair *TBA*

15:30–15:50	Vehicle Trajectory Forecasting with Dynamic Sparse Spatio-Temporal Graph Neural Networks online Youde Wu, Tingyan Long, Changheng Li	#1571346366
15:50–16:10	How Much Regularization Survives Averaging? Update Masking in Federated Learning online Wenhao Yan, Fu Kuroda, Yucheng Jin, Zhenke Chen	#1571346387
16:10–16:30	A Low-Cost Multi-View RGB Sensing System for Markerless 3D Human Pose Reconstruction in Smart Manufacturing online Li Quanhe, Wei Wang, Moyan Liu, Shigeki Sugano	#1571342138
16:30–16:50	Breaking the Inner Loop: Efficient Synchronous Co-Training for Identity Protection Against Personalized Diffusion Models Yiran Qi, JingYao Xu, Siyang Lu	#1571342641

Thursday 12 November

CyberSciTech and CBDCom keynotes, Panel Q, workshops, Panel E, banquet and awards

08:30	Registration · Level 10
09:00–09:40	CyberSciTech Keynote · Prof. Ljiljana Trajkovic (Simon Fraser University) online <i>Data Mining and Machine Learning for Analysis of Network Traffic · 080.01.002</i>
09:40–10:20	CBDCom Keynote · Dr Sahraoui Dhelim (Dublin City University) <i>Frontiers in Specialised AI: From Vision-Language Data Pipelines to DRL-Based Compiler Optimisation · 080.01.002</i>
10:20–10:50	Morning Tea · Level 10
10:50–12:20	Panel Q · HAI-Q · 080.01.002
12:30–13:30	Lunch · Level 10

Parallel sessions · 13:30–15:00

DASC-05 Wksp ADSN 2026 Workshop 13:30–15:00 · 080.10.012 · Chair Junichi Funasaka		
13:30–13:45	Low-Frequency Changes in Country-Name Search Trends Around Major International Crises: A Cross-Case Comparison and an Iran Case Study Yu Chen, Kazuki Nakajima, Masaki Aida	#1571339170
13:45–14:00	Cluster-Based Decentralized Federated Learning for Dynamic Wireless Network Environments Yuki Maeda, Tomoyuki Ohta	#1571339200
14:00–14:15	Introducing IP Multicast into CCNx Content Object Distribution over a Consumer-Side LAN Junichi Funasaka	#1571341474
14:15–14:30	Low-Frequency Features of Stock-Related Search Interest and Subsequent Price Movements in Japanese Automakers Takumi Ishii, Chisa Takano, Hiroyasu Obata, Masaki Aida	#1571341799
14:30–14:45	Autonomous Decentralized Transmission Control Based on a Coupled Oscillator Model for Federated Learning with Non-IID Data Yuto Teshima, Chisa Takano, Hiroyasu Obata, Satoru Kobayashi, Yasuhiro Ohishi	#1571342252
14:45–15:00	Aggregation-Based Candidate Monitoring Keyword Selection for Trend Precursor Analysis Chihiro Sanada, Kazuki Nakajima, Masaki Aida	#1571346303

CST-20 Wksp GAI-HyperI 2026 Symposium (I) 13:30–15:00 · 080.10.013 · Chair TBA		
13:30–13:45	Reshaping Research, Innovation, and Education in the Age of LLMs Qiangfu Zhao, Qing Li, Zhong Chen, Wei Lu, Jiliu Zhou, Xiao Huang, Qun Jin, Prem Prakash Jayaraman, Seng W. Loke, Naohiro Hayashibara, Toshiaki Miyazaki, Jiannong Cao, Lizhen Cui, Claudio Miceli de Farias, Benxiong Huang, Zengwei Zheng, Zhen Liu, Chen Yang, Hiroshi Masui, Jianhua Ma	#1571345378
13:45–14:00	Toward Human-State Inferability in LLM-Based Classification Using Multimodal Wearable Data Lifei Wang, Ao Guo, Jianhua Ma	#1571346229
14:00–14:15	Relevant ≠ Applicable: Diagnosing the Conditional Applicability Illusion in Retrieval-Augmented Regulation QA Shitian Zheng, Zengwei Zheng, Zhengzhe Xiang, Binbin Zhou	#1571341777
14:15–14:30	Towards DisasterFM: Foundation Models for Disaster Science Yilin Lyu, Zhong Chen, Kang Liu	#1571342446
14:30–14:45	Position: Toward Interleaved Hardware-Model Development for AI Systems Ruilin Zhang, Zhong Chen	#1571342464

CST-21 Wksp **IoT-Life 2026 Workshop (I)****13:30–15:00** · 080.10.014 · Chair *TBA*

13:30–13:45	Effects of AI Voice Prompt Volume on Drivers' Braking Reaction Time, Heart Rate Responses, and Pupil diameter Responses while Driving Simulation Zhenzheng Xu, Bo Wu	#1571334610
13:45–14:00	Eye Movement-Based Analysis of Children's Reasoning Performance via Chinese Character Evolution Ordering Experiments Qun Xu, Bo Wu, Letian Liu, Qian Yue Xu	#1571334612
14:00–14:15	Effects of Driving Experience on Eye Movement Metrics Under Different Multi-Frequency Music Combinations during Prolonged Driving Chenhao Li, Bo Wu, Jun Wang	#1571334613
14:15–14:30	Eye-Tracking-Based Analysis of Attention Mechanisms in Video-based Learning: How Students' Mental Health Status Affects Their Learning of New Interdisciplinary Concepts Xinyue Yang, Bo Wu, Letian Liu, Jun Wang, Siyu Xiong	#1571334623
14:30–14:45	Effects of Pictorial Representation Styles on Visual Attention in Preschool Children Qian Yue Xu, Bo Wu, Qun Xu, Letian Liu	#1571334776
14:45–15:00	Knowledge Graph-Guided Temporal Behavior Interpretation with A Local LLM Agent in Smart Homes Tianle Hu, Hong Chen, Yenjou Wang	#1571336970

CBD-07 Regular **Online Session: Tracks 2 to 4****13:30–14:50** · 080.10.016 Online · Chair *TBA*

13:30–13:50	A PUF-Assisted Lightweight Access Authentication and Key Agreement Protocol for Edge-Assisted Smart Grids Chang Liu, Jiakai Hao, Jun Yun, Xu Dong, Tongjia Zhang, Lvxuan Zhou	#1571342605
13:50–14:10	Lightweight Indirect Prompt Injection Detection via Executor-Aware Semantic Difference Yadong Wang, Guangtao Zhou, Jinliang Gong, Hongyang Ruan	#1571340038
14:10–14:30	BoundarySpace: Executable Sovereignty for AI Agents in Data Spaces Shuwen Liu, George C. Polyzos	#1571341817
14:30–14:50	Adaptive Hierarchical PQ-GPS Scheduling for Data-Intensive Services in Mobile Networks Ran Zhang, Huaifeng Sun, Tong Ding	#1571333793

15:00–15:30 *Afternoon Tea · Level 10 (CBD-08 starts at 15:20)***Parallel sessions · 15:20–17:00****DASC-06** Regular **Track 4: AI, Machine Learning, and Advanced Computational Methods****15:30–16:30** · 080.10.012 · Chair *TBA*

15:30–15:50	Machine Learning-Assisted Multiobjective Trajectory Optimization for an Industrial Robot Using a Lightweight Digital Twin Ashan Kudabalage, Supun Dissanayaka	#1571332391
15:50–16:10	A Graded Mechanism Atlas for Continuous Casting: Auditable Evidence for LLM Causal Diagnosis Jike Li, Haiping Du, Yujun Zhang, Yuexiao Guan, Yan Yu	#1571333576
16:10–16:30	A Robust Watermark-based Fingerprint Framework for GNNs Ownership Verification Han Zhang, Yan Wang, Liu Guanfeng, Pengfei Ding, Huaxiong Wang, Kwok-Yan Lam	#1571342945

DASC-07 Wksp **EDCSTA 2026 Workshop****16:30–17:00** · 080.10.012 · Chair **Bob Apduhan**

16:30–16:45	IoT-Enabled Self-Adaptive Edge AI for Strawberry Defect Detection with Pseudo-Labeling and Continual Learning on Jetson Orin Nano Tong Jun Yang, Kazuaki Tanaka, Way Soong Lim, Krishnamoorthy R	#1571337307
16:45–17:00	Evaluating Stash-Based Caching in Tree-Based ORAMs Kazuaki Kawabata, Naohiro Hayashibara	#1571342465

CST-22 Wksp **GAI-HyperI 2026 Symposium (II)****15:30–17:00** · 080.10.013 Hybrid · Chair **TBA**

15:30–15:45	Extracting Short-Term Intention Contrastive Learning for Sequential Recommendation online Mengfan Ma, Zhenhai Wang, Qingxing Wu, Xian Wu, Yuhao Xu	#1571324399
15:45–16:00	A Human-AI Collaborative, Verifiable Corpus Analysis Paradigm and Its Instantiation on a Sino-Japanese Conceptual-History Study online Haozhong Duan, Shuliang Zhu, Ming Wang, Raymond Yao, Xiaolin Wu	#1571342189
16:00–16:15	Automated Scientific Ideation: A Review and Future Perspectives online Zhipeng Luo	#1571342852
16:15–16:30	NeuroCoSci: Human-AI Hyper-Intelligence for Mechanism-Grounded Multimodal Neuroimaging Xing-chen Zhou, Shan-Yan Lei, Zhao Yao, Zuo-Bing Chen	#1571329782
16:30–16:45	Beyond Human Inspection: TRACE for Provenance-Aware Evaluation of AI-Assisted Text Pipelines Antonis Charalampous, Constantinos Djouvas, Nicolas Tsapatsoulis, Christos Christodoulou	#1571339485
16:45–17:00	Memory-Enhanced Vision-Language Alignment for Image Aesthetic Assessment Xixi Nie, Shixin Huang, Xiaoyu Wan	#1571341291

CST-23 Wksp/WiP **IoT-Life 2026 Workshop (II), with Work-in-Progress talks****15:30–17:00** · 080.10.014 Hybrid · Chair **TBA**

15:30–15:45	Instance-Bound Regional Evidence Watermarking for Cross-Platform Consistency Verification of Personal IoT Images online Chongyang Zhang, Yu Qi, Bo Wu	#1571337618
15:45–16:00	Multi-Scale Transformer Autoencoder with Haar-based Local Frequency Enhancement and Pseudo-Defect Guided Denoising for Industrial Anomaly Detection online Hao Li, Qien Yu, Yan Tan, Bo Wu	#1571342195
16:00–16:15	A Cross-Modal Knowledge Distillation Framework for Smart-Insole-Based Daily Walking Task State Prediction Xuan Huang, Yanmei Jiao, Yuan Bian, Xinyue Yang, Shoji Nishimura, Bo Wu	#1571345680
16:15–16:30	Analyzing Temporal Changes in Drivers' Pupil Diameter Around Tunnel Entry Zijun Wang, Bo Wu, Yishui Zhu, Qirun Wang, Qun Jin	#1571346650
16:30–16:40	Multi-UAV Cooperative Yak Search Based on MAPPO for Intelligent Pasture IoT WiP Qilin Zhang, Caixing Shao, Ran Li, Hang Lin, Jianhua He	#1571334268
16:40–16:50	How do Immersive Mirror-Reversal Views and Embodiment Affect the Ease of Teleoperated Bring-me Tasks using a Mobile Manipulator? WiP Keiichi Ono, Akishige Yuguchi, Yoshio Matsumoto	#1571342957
16:50–17:00	A Methodological Framework for Developing and Evaluating Visual Representations of Mental Imagery WiP Takuya Ohmori	#1571346252

Panel E Panel **Education in the Age of LLMs****15:30–17:00** · 080.10.016

CBD-08 Regular **Online Session (Asia, Middle East and Europe): Tracks 1, 2 & 4****15:20–17:00** · 080.09.012 **L9** Online · Chair *TBA*

15:20–15:40 **Quantum Space-Time Block Codes for Noncoherent Communication: A Simulation-Based Comparison with Stabilizer Codes** #1571333159
Mayasa Khalifa Al Hinai, Hafiz Asif, Abdulnasir Hossen, Joseph Jervase

15:40–16:00 **Dual-Layer Application-Identity Enforcement for Zero-Trust API Gateways in Microservices** #1571341870
Parman Sukarno, Aulia Arif Wardana, Farell Kresnanda

16:00–16:20 **AdaK-MoE: Entropy-Guided Adaptive Expert Budget for Efficient Mixture-of-Experts Inference** #1571330206
Yijun Lu, Zheng Lin, Zihan Fang, Yuyin Ma, Jing Yang, Lip Yee Por, Yinqiu Liu, Jialong Li

16:20–16:40 **A CNN-Aided PCG Detector for RIS-Aided OTFS Systems With Fractional Doppler Coupling** #1571326876
Jinlong Xie, Ke Mei, Siwen Dong, Jia Hou, Chaofeng Zhang

16:40–17:00 **Designing Cloud Caches over Hierarchical Storage** #1571334475
Lorenzo Marini, Damiano Carra

18:30–21:30 **Conference Banquet & Awards** · venue TBA

Friday 13 November

Paper sessions, BoF, Closing by 12:00, campus visit

08:30

Registration · Level 10

Parallel sessions · 09:00–10:20

PICOM-05 Wksp QuDiS 2026 Workshop

09:00–10:00 · 080.10.012 Online · Chair *TBA*

09:00–09:15	Cross-Layer Testing of Hybrid Quantum-Classical Distributed Applications: Fault Models, Testing Strategies, and Research Challenges Vasileios Klimis	#1571339014
09:15–09:30	Logic-Guided Hybrid Quantum SAT Solving with Prolog and Qiskit Filippo Vella, Samuele Maria Morreale, Giovanni Pilato, Salvatore Gaglio	#1571346166
09:30–09:45	Entropy as a Design Component for Quantum Systems Tahereh Rezaei, Evan Hackertt, Kelle Clark, Peter Bordow	#1571350692
09:45–10:00	A Gate Based Quantum Computing Framework for Codon Optimization Fatemeh Ghasemi, Kion Kim	#1571345873

CST-24 WiP Work-in-Progress Papers

09:00–09:30 · 080.10.013 · Chair *TBA*

09:00–09:10	MDR-GGCMF: A Multimodal Depression Recognition Framework with Global-Guided Cross Modal Fusion WiP Jianing Zhao, Ruichen Cong, Qun Jin	#1571346519
09:10–09:20	Rethinking AI Text Detection: Understanding Human, Social Bot, and ChatGPT Content Through Linguistic and Explainability Analysis WiP Muhammad Owais, Kazuki Nakajima, Masaki Aida	#1571321878
09:20–09:30	Attitude as the Mediating Mechanism in Auditors' Adoption of Artificial Intelligence: An Extended UTAUT Model WiP Vigneswara Rao Subramaniam, Parvathy Rajendran, Yuvaraj Ganesan	#1571345527

CBD-09 Regular Tracks 2 & 3 (Americas, online) and Regular Paper

09:00–10:20 · 080.10.016 Hybrid · Chair *TBA*

09:00–09:20	What Does an Acknowledgment Guarantee? Durability and Performance in Replicated Log Brokers online Raj Kumar Pandey, Pramod Kumar, Hardik Ruparel	#1571338218
09:20–09:40	Bridging the Identity Gap: Purpose-Bound Delegation for MCP and A2A Agent Chain online Khadarvali Shaik, Abdul Rasheed Shaik, Jyostna Seelam, Subramanyam Ramana, Syam Sajit, Venkata Phani Patelkhana	#1571341732
09:40–10:00	Bounded Provisional Visibility: Controlling Poisoning Exposure in Continuously Ingested RAG Vector Stores online Chuhong Xu, Lu Yi, Gangzhen Qian, Kainan Zhou, Zhaoyi Li, Hang Xiao	#1571334235
10:00–10:20	Decentralized Identity Management for Multi-Cloud Environments Empowering SOLID PODs and Zero-Knowledge Authentication Alfredo Cuzzocrea, Islam Belmerabet	#1571346037

10:20–10:40 *Morning Tea · Level 10*

10:40–11:40 **Birds-of-a-Feather (BoF)** · 080.01.002 · open to all four conferences

11:40–12:00 **Closing** · 080.01.002

12:00–13:30 *Lunch · Level 10*

13:30–15:30 **Visit RMIT AIDA Hub and Campus Tour**

15:30–16:00 *Afternoon Tea · Level 10*

16:00–17:00 **Committee Meeting**