



45th IEEE International Conference on Distributed Computing Systems 2025 (ICDCS 2025) 20-23 July 2025, Glasgow, UK

Detailed Programme

Saturday, 19 July 2025	
16:00-17:00 Exclusive Distillery Whiskey Tasting Tour 1 (Optional)	

	Sunday, 20 July 2025	
08:00-09:00	Breakfast (Radisson Blu)	
09:00-17:00	Posters	
	Megalith 1	
09:00-10:30	Workshops & Tutorials (Morning Session 1)	
09:00-10:30	Tutorials	
	T1: Federated Learning and Network Security: Foundations, Potential, and	
	Resilience	
	Megalith 2	
	T5: Al-Native Joint Communication and Computation in 6G Networks and Beyond	
	Room 1	
	T6: Network Simulation Bridge: Bridging Distributed Applications with Network	
	Simulators	
	Room 2	
	T2: Integrating Knowledge Graphs and Large Language Models for Advancing	
	Scientific Research	
	Finnieston	
09:00-10:30	Workshops	
	Federated Learning for Web Technologies Workshop (FL4WEB)	
	Megalith 3	
	1st Workshop on Distributed Computing Systems for Smart Logistics (DCSSL)	
	Room 4	
	Security, Privacy and Resilience in Converged Networked Systems Workshop (SPARCSNet)	
	Room 4	
	1st Workshop on High Performance and Energy Efficient Architectures for 3D	
	Chiplets (HiPER3D)	
	Room 5	
	4th International Workshop on Autonomous Network Management Systems	
	(ANMS)	
	Room 7	
	2nd Workshop on Engineering Techniques for Distributed Computing Continuum	
	Systems (EDCCS)	
	Room 3	
	5th International Workshop on Distributed Infrastructure for Common Good	
	(DICG)	
	Room 6	

10:30-11:00	Coffee break	









11:00-12:30	Workshops & Tutorials (Morning Session 2)
11:00-12:30	Tutorials
	T1: Federated Learning and Network Security: Foundations, Potential, and
	Resilience
	Megalith 2
	T5: Al-Native Joint Communication and Computation in 6G Networks and Beyond
	Room 1
	T6: Network Simulation Bridge: Bridging Distributed Applications with Network
	Simulators
	Room 2
	T2: Integrating Knowledge Graphs and Large Language Models for Advancing
	Scientific Research
	Finnieston
11:00-12:30	Workshops
	Federated Learning for Web Technologies Workshop (FL4WEB)
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	1st Workshop on Distributed Computing Systems for Smart Logistics (DCSSL)
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	Systems (EDCCS) Room 3
	5th International Workshop on Distributed Infrastructure for Common Good
	(DICG) Room 6
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12:30-13:45	Lunch

13:45-15:15	Workshops, Tutorials, and Doctoral Consortium (Afternoon Session 1)
13:45-15:15	Tutorials
	T3: Serverless Orchestration on the Edge-Cloud Continuum: From Small Functions
	to Large Language Models
	Megalith 2
	T4: Trustworthiness and Consensus in Distributed and Connected Autonomous
	Systems
	Room 1
	T7: Redefining Telecommunications: Data Engineering and Blockchain for B5G/6G
	Networks
	Room 2
	T8: Distributed Multi-Agent AI Systems: Scalability, Challenges, and Applications
	Finnieston
13:45-15:15	Workshops
	Federated Learning for Web Technologies Workshop (FL4WEB)
	Megalith 3









	Distributed Generative AI for Wireless (DGAIW)
	Room 4
	1st International Workshop on Federated Learning for Wireless Edge Artificial
	Intelligence (FedEdgeAI)
	Room 5
	Workshop on Federated and Privacy Preserving Al in Biomedical Applications
	(FPPAI)
	Room 7
	1st Workshop on Hot Topics in Distributed Machine Learning (HotDiML)
	Room 3
13:45-15:15	Doctoral Consortium (DC)
	Room 6
	DC 1: Core Advances in Distributed AI & Federated Learning
	#85 Multi-Modal Personalized Federated Learning for Human Intent Prediction
	Maximilian Forstenhäusler
	#87 A Robust Byzantine-Resilient Framework for Federated Learning
	Ke Xiao
	#75 Optimization of Knowledge Distillation in Heterogeneous Federated Problems
	Wenhao Li and Kevin Bryson
	#80 Bridging Mobility and Federated Learning: Toward Dynamic Client
	Orchestration in Distributed Edge Systems
	Qiyuan Wang
	#84 CRS-FL: A Novel Framework for Communication Efficient, Reliable, and
	Scalable Decentralized Federated Learning
	Vahideh Hayyolalam and Öznur Özkasap

15:15-15:45	Coffee break		

15:45-17:15	Workshops, Tutorials, and Doctoral Consortium (Afternoon Session 2)
15:45-17:15	Tutorials
	T3: Serverless Orchestration on the Edge-Cloud Continuum: From Small Functions
	to Large Language Models
	Megalith 2
	T4: Trustworthiness and Consensus in Distributed and Connected Autonomous
	Systems
	Room 1
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15:45-17:15	Workshops
	Federated Learning for Web Technologies Workshop (FL4WEB)
	Megalith 3
	Distributed Generative AI for Wireless (DGAIW)
	Room 4
	1st International Workshop on Federated Learning for Wireless Edge Artificial
	Intelligence (FedEdgeAI)
	Room 5









	Workshop on Federated and Privacy Preserving AI in Biomedical Applications
	(FPPAI)
	Room 7
	1st Workshop on Hot Topics in Distributed Machine Learning (HotDiML)
	Room 3
15:45-17:15	Doctoral Consortium (DC)
	Room 6
	DC 2: Distributed AI in Real-World Systems
	#54 Improving Healthcare Al-Support Systems for Skin Lesion Diagnosis With
	tinyML
	Tess Watt, Christos Chrysoulas and Rob Stewart
	#83 Distributed Temporal Graph Learning with Provenance for APT Detection in
	Supply Chains
	Zhuoran Tan and Jeremy Singer
	#86 Towards Sustainable Synchronization of Digital Twins in Next-Generation IoT
	Networks
	Yasith Ruwanga Wanigarathna Wanigarathna Arachchige, Roberto Morabito and Sasu
	Tarkoma
	#113 An energy-aware priority-based Al-enabled offloading framework in Edge-to-
	Cloud continuum
	Jaber Pournazari, Ahmed Al-Dubai and Xiaodong Liu
	#79 Digital Currency and Blockchain
	Uwe A. Kuehn
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19:00	Conference Welcome Reception (Radisson Blu)

	Monday, 21 July 2025
07:45-08:30	Breakfast (Radisson Blu)
08:30-09:00	Opening Ceremony
09:00-10:00	Keynote 1: Peter Druschel
	Megalith 2 & 3
10:00-10:30	Coffee break
10:30-12:00	Technical Morning Sessions 1
10:30-12:00	AI/ML 1: Decentralized and Collaborative Learning
	Megalith 2
	Session Chair: TBA
	#284 PRISAM: Efficient Personalization via BN Masks in Heterogeneous
	Decentralized Federated Learning
	Shan Chang, Xianbo Wang, Hao Yu, Denghui Li, Guanghao Liang, Hongzi Zhu and Bo Li
	#296 Few-Shot Domain Adaptation for Effective Data Drift Mitigation in Network
	Management
	Seyed Soheil Johari, Massimo Tornatore, Raouf Boutaba and Aladdin Saleh
	#318 FedShapleX: Shapley Value Driven Context-Aware Model-Heterogeneous
	Federated Learning
	Jifeng Chen, Haibo Zhang and Amanda Barnard









	#409 PairUpLight: A Multi-agent Reinforcement Learning Approach for Coordinated Multi-intersection Traffic Signal Control
	Wenlu Du, Jing Li and Guiling Wang
10:30-12:00	Edge 1: Efficient and Adaptive Edge Computing
	Megalith 3
	Session Chair: TBA
	#67 NeRFlex: Resource-aware Real-time High-quality Rendering of Complex
	Scenes on Mobile Devices
	Zhe Wang and Yifei Zhu
	#132 Multipath Parallel Reverse Segment Download (MPRD) for Peer to Peer Content Delivery
	Suresh Srinivasan and Ehsan Aryafar
	#289 TACO: Tackling Over-correction in Federated Learning with Tailored Adaptive Correction
	Weijie Liu, Ziwei Zhan, Carlee Joe-Wong, Edith CH. Ngai, Jingpu Duan, Deke Guo, Xu
	Chen and Xiaoxi Zhang
	#363 Plan-Based Scalable Online Virtual Network Embedding
	Oleg Kolosov, Gala Yadgar, David Breitgand and Dean Lorenz
10:30-12:00	BC&DB 1: Security and Fairness in Blockchain
	Finnieston
	Session Chair: TBA
	#187 EquiBFT: A Framework for Achieving Fairness in BFT Consensus
	Siwei Cai, Lei Fan, Shengyun Liu and Hong-Sheng Zhou
	#209 Mosaic: Client-driven Account Allocation Framework in Sharded Blockchains
	Yuanzhe Zhang, Shirui Pan and Jiangshan Yu
	#228 Asynchronous Dynamic Committee Proactive Secret Sharing for Large Data
	Zhenliang Lu, Tianyi Zhang, Alan Fekete, Kwok Yan Lam and Qiang Tang
	#247 Depermissioning Web3: a Permissionless Accountable RPC Protocol for Blockchain Networks
	Weihong Wang and Tom Van Cutsem

12:00-13:15	Lunch
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13:15-14:45	Technical Afternoon Sessions 1
13:15-14:45	DS4AI/ML 1: Sustainable and Efficient Training and Deployment
	Megalith 2
	Session Chair: TBA
	#50 LLMSched: Uncertainty-Aware Workload Scheduling for Compound LLM
	Applications
	Botao Zhu, Chen Chen, Xiaoyi Fan and Yifei Zhu
	#85 Communication-Efficient MoE Fine-Tuning with Locality-Aware Expert
	Placement
	Chenghao Hu, Yufei Kang and Baochun Li









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	#90 Shuffle-Exchange: Enhancing Collective Communication Efficiency for Large
	Model Training
	Zhihang Tang, Chenxi Li, Xiang Yang, Bo He, Qi Qi, Jingyu Wang and Laiping Zhao
	#157 GreenFL: Carbon-efficient Federated Learning over RE Powered Edge
	Computing Systems
	Hanlong Liao, Yu Zhang, Lailong Luo, Deke Guo and Guoming Tang
13:15-14:45	S&P 1: Attacks and Defense in Collaboration
	Megalith 3
	Session Chair: TBA
	#95 InverCRS: Generative Audio Inversion Attack in Collaborative Recognition
	Systems
	Xianglong Zhang, Haoming Luo, Mingda Han, Qihao Dong, Guoming Zhang, Yanni Yang,
	Qianli Li and Pengfei Hu
	#103 BEyes: Unseen Eyes Snooping Pattern Lock via BFI
	Hao Chen, Penghao Wang, Feng Hong, Zhongwen Guo and Chao Liu
	Thao Cherr, Feriginao Wang, Feriginong, Zhongwen Guo anu Chao Liu
	#136 Too Clever by Half: Detecting Sampling-based Model Stealing Attacks by
	Their Own Cleverness
	Xin Yao, Chenyang Wang, Yimin Chen, Kecheng Huang, Jiawei Guo and Ming Zhao
	#203 HarDTAPE: Hardware Dedicated Trusted transAction Pre-Executor
	Sirui He, Zhibo Sun, Yuan Chen, Yajin Zhou and Cong Wang
13:15-14:45	Cloud 1: Optimizing Cloud Networking and Systems
	Finnieston
	Session Chair: TBA
	#106 Efficient Serverless Cold Start: Reducing Library Loading Overhead by
	Profile-guided Optimization
	Syed Salauddin Mohammad Tariq, Ali Al Zein, Soumya Sripad Vaidya, Arati Khanolkar,
	Zheng Song and Probir Roy
	#122 P4CEMaker: automated hardware acceleration of consensus protocols
	Paul Breuil and Baptiste Lepers
	#212 PEE: Precise ECN Encoding for Efficient Congestion Control in Data Center
	Networks
	Changlin Jiang, Yi Wu, Hanling Wang, Feixue Han, Dayi Zhao, Yong Jiang, Gareth Tyson
	and Qing Li
	2112 Z118 Z1
	#246 Octopus: Decentralized Workflow-granular Scheduling for Serverless
	Workflow
	Keming Wang, Liaoliao Feng, Ligang He, Chenlin Huang, Fengyuan Yu and Tao Xie

14:45-15:15	Coffee break
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15:15-16:45	Technical Afternoon Sessions 2
15:15-16:45	AI/ML 2: Efficient Training and Resource Management
	Megalith 2
	Session Chair: TBA
	#456 Mast: Efficient Training of Mixture-of-Experts Transformers with Task
	Pipelining and Ordering
	Wenxiang Lin, Xinglin Pan, Shaohuai Shi, Xuan Wang, Bo Li and Xiaowen Chu









	#458 Mitigating Contention in Stream Multiprocessors for Pipelined Mixture of
	Experts: An SM-Aware Scheduling Approach
	Xinglin Pan, Rui Wang, Wenxaing Lin, Shaohuai Shi and Xiaowen Chu
	#565 SimDC: A High-Fidelity Device Simulation Platform for Device-Cloud
	Collaborative Computing
	Ruiguang Pei, Junjie Wu, Dan Peng, Min Fang, Jianan Zhang, Zhihui Fu and Jun Wang
	#589 Congestion Control for Blockchain-enabled SDN in Web 4.0: A Reinforcement Learning Approach through Active Inference
	Chenyang Wang, Xiaoxu Ren, Ying He, Fei Richard Yu and Victor C. M. Leung
15:15-16:45	IoT&CPS 1: Mobile Agents and Perception in Autonomous Systems
	Megalith 3
	Session Chair: TBA
	#98 U-Mesh: Deploying UAV-Mesh Network for Automatic Powerline Inspection in
	Remote Areas
	Jieyu Zhou, Feng Lyu, Mingliu Liu, Fan Wu, Lijuan He, Huali Lu, Zaixun Ling and Yibo Cui
	#109 CoPe: Taming Collaborative 3D Perception via Lite Network Attention across
	Mobile Agents
	Shifan Zhang, Hongzi Zhu, Yunzhe Li, Liang Zhang, Shan Chang and Minyi Guo
	#201 Saga: Capturing Multi-granularity Semantics from Massive Unlabelled IMU
	Data for User Perception
	Yunzhe Li, Facheng Hu, Hongzi Zhu, Shifan Zhang, Liang Zhang, Shan Chang and Minyi
	Guo
	#214 mmUAVsense: mmWave Radar-based UAV Detection via Fine-grained Rotary
	Sensing
	Wenhao Xu, Chuyu Wang, Qiancheng Jin, Yanling Bu, Lei Xie and Sanglu Lu
15:15-16:45	BC&DB 2: Smart Contracts and Consensus
10.10 10.10	Finnieston
	Session Chair: TBA
	#339 Mahi-Mahi: Low-Latency Asynchronous BFT DAG-Based Consensus
	Philipp Jovanovic, Lefteris Kokoris-Kogias, Bryan Kumara, Alberto Sonnino, Pasindu
	Tennage and Igor Zablotchi
	Termage and igor zubletom
	#346 Uncovering Hidden Proxy Smart Contracts for Finding Collision
	Vulnerabilities in Ethereum
	Cheng-Kang Chen, Wen-Yi Chu, Muoi Tran, Laurent Vanbever and Hsu-Chun Hsiao
	#443 Enabling Bitcoin Smart Contracts on the Internet Computer
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	Ryan Croote, Islam El-Ashi, Thomas Locher and Yvonne-Anne Pignolet
	#490 Lumi: Lightweight Blockchain Layer 2 Protocol from On-chain Coordination
	Xin Wang, Shuhe Cao, Keting Jia, Qidi You and Sisi Duan

16:45-17:00	Break
17:00-18:30	Women in Distributed Computing Systems (WiDCS) Event & Reception (Radisson
	Blu)
	Megalith 2







	Tuesday, 22 July 2025
08:00-09:00	Breakfast (Radisson Blu)
09:00-10:00	Keynote 2: Ling Liu
	Megalith 2 & 3
10:00-10:30	Coffee break
10:30-12:00	Technical Morning Sessions 1
10:30-12:00	DS4AI/ML 2: Distributed Training and Inference
	Megalith 2
	Session Chair: TBA
	#194 SOLB: Synchronization-Objective Load Balancing for Distributed DNN
	Training lingling Ling Zivi Wong, Zhong Ho, Bui Cui, Hoo Fong and Jiawai Huang
	Jingling Liu, Zixi Wang, Zhong He, Rui Cui, Hao Fang and Jiawei Huang
	#252 Demystifying Distributed Training of Graph Neural Networks for Link
	Prediction
	Xin Huang and Chul-Ho Lee
	#257 S2M3: Split-and-Share Multi-Modal Models for Distributed Multi-Task
	Inference on the Edge
	Jinyi Yoon, Jiho Lee, Ting He, Nakjung Choi and Bo Ji
	#288 CAFGD: Reduce Fragmentation in Large-Scale Multi-tenant Clusters for GPU
	Sharing Workloads
	Huazheng Lao, Rui Xu, Long Chen and Jinquan Zhang
10:30-12:00	S&P2: Security and Privacy in AI and ML
	Megalith 3
	Session Chair: TBA
	#673 On Securing Data Privacy in Federated Learning Using Noise-assisted Aggregated Multi-Key Homomorphic Encryption
	Yuxiao Ma, Wei Lou and Song Guo
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	#324 PDSL: Privacy-Preserved Decentralized Stochastic Learning with
	Heterogeneous Data Distribution
	Lina Wang, Yunsheng Yuan, Chunxiao Wang and Feng Li
	#427 Physical Backdoor Attacks against mmWave-based Human Activity
	Recognition
	Ziqian Bi, Amit Singha, Hongfei Xue, Tao Li, Yimin Chen and Yanchao Zhang
	#470 Au il di a Ola IORT Tara (a cara lo all'alia O ala
	#478 Attributing ChatGPT-Transformed Synthetic Code
10:30-12:00	Soohyeon Choi, Ali Alkinoon, Ahod Alghuried, Abdulaziz Alghamdi and David Mohaisen FT1: Resilience in Distributed Learning and Communication
10.30-12.00	Finnieston
	Session Chair: TBA
	#140 RAPIDSCRIBE: Bandwidth-aware Parallel Snapshots for Distributed Neural-
	Network Training
	Wenxuan Liu, Qihang Chen, Shuotao Xu, Hua Yang, Yuqing Yang and Peng Cheng
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	#305 ECCheck: Enhancing In-Memory Checkpoint with Erasure Coding in
	Distributed DNN Training
	Guicheng Qi, Zongpeng Li, Chuan Wu, Zhuwei Peng and Yi Zheng









	#715 Exploring Dangerous Graphs with Byzantine Companions Giuseppe Antonio Di Luna, Paola Flocchini, Debasish Pattanayak, Francesco Piselli, Giuseppe Prencipe and Nicola Santoro
	#660 Bandwidth Optimized Scalable Designs with Inter-Layer Overlapping for MPI
	Broadcast
	Yi Dai, Qi Zhu, Mingche Lai, Jiaqing Xu, Zhiquan Lai, Bo Yang and Dongsheng Li
10:30-12:00	Industry 1
	Room 4
	Session Chair: TBA
	Industry Keynote 1: Mohamed Eldessouki
	#192 Name-based Quality for Name-based Networks
	Ryo Yanagida, Jeremy Singer, Paul Harvey, Leon Wong and Colin Perkins
	#197 Edge-First Language Model Inference: Models, Metrics, and Tradeoffs
	Siyoung Jang and Roberto Morabito
	#64 Optimizing Telco Networks with Foundation Models: A Scalable Approach for
	Tabular Data
	Franck Le, Keith Grueneberg, Erich Nahum, Douglas Freimuth and Vadim Sheinin

12:00-13:15	Lunch
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13:15-14:45	Technical Afternoon Sessions 1
13:15-14:45	DS4AI/ML 3: Privacy-preserving and Sustainable AI
	Megalith 2
	Session Chair: TBA
	#362 FedLTH: A Privacy-preserving Federated Learning Framework with Model
	Pruning on Edge Clients
	Heyu Zhang, Yulai Xie, Shengshan Hu, Miao He, Peisong He, Jun Zheng and Dan Feng
	#501 Carbon-Neutralizing Edge Al Inference for Data Streams via Model Control
	and Allowance Trading
	Yining Zhang, Lei Jiao, Konglin Zhu, Yuedong Xu and Lin Zhang
	#511 PARDON: Privacy-Aware and Robust Federated Domain Generalization
	Dung Thuy Nguyen, Taylor T. Johnson and Kevin Leach
	#530 ACME: Adaptive Customization of Large Models via Distributed Systems
	Ziming Dai, Chao Qiu, Fei Gao, Yunfeng Zhao and Xiaofei Wang
13:15-14:45	BC&DB 3: Cross-chain and Scalability
	Megalith 3
	Session Chair: TBA
	#618 Tombolo: Towards a Decentralized Interconnected Blockchain Ecosystem
	using Cross-Chain Payment Channels
	Siddharth Maurya, Nitin Awathare, Vinay Joseph Ribeiro and Umesh Bellur
	#759 Fully Decentralized Collection of Attestations for Single-Slot Finality in
	Ethereum
	Janos Tapolcai and Bence Ladóczki









	#760 A Generic Framework for Cross-Chain Atomic Swaps of Digital Tokens Janos Tapolcai, Bence Ladóczki and Lajos Rónyai
	#895 A Novel Reputation-based Sharding Blockchain System in Edge Sensor
	Networks
	Jiarui Zhang and Yuanyuan Yang
13:15-14:45	Cloud 2: Reliable and Secure State Management Finnieston
	Session Chair: TBA
	#526 SGX-Enabled Encrypted Cross-Cloud Data Synchronization
	Jia Zhao, Yanjing Ren, Jingwei Li and Patrick P. C. Lee
	#802 Practical Considerations for Implementing State Machine Replication in the Cloud
	Zhiying Liang, Vahab Jabrayilov, Abutalib Aghayev and Aleksey Charapko
	#37 Spacker: Unified State Migration for Distributed Streaming
	Mao Yancan, Shuhao Zhang and Richard Ma
	#000 A sum abuse DET O sus a sus Mada Windle
	#236 Asynchronous BFT Consensus Made Wireless Shuo Liu, Minghui Xu, Tianyi Sun and Xiuzhen Cheng
13:15-14:45	Industry 2
10.10 14.40	Room 4
	Session Chair: TBA
	#30 Incremental Learning Detection of Distributed Financially Motivated Attacks in
	Energy Markets
	Ghadeer Alsharif, Christos Anagnostopoulos and Angelos Marnerides
	#34 Distributed Quantum Bit-Phase-Flip Error Correction based on CSS Codes and GHZ States
	Shahram Babaie and Chunming Qiao
	#65 D-MGN: A Distributed Mesh Graph Neural Network for Scalable Engineering Simulation
	Fu Lin, Jiasheng Shi, Weixiong Rao, Jiachuan Wang, Lei Chen, Chunyan Zhu, Haihua Wang and Suo Xie
	#66 Distributed Log-driven Anomaly Detection System based on Evolving Decision
	Making
	Zhuoran Tan, Qiyuan Wang, Christos Anagnostopoulos, Shameem P. Parambath, Jeremy Singer and Sam Temple

14:45-15:15	Coffee break
15:15-16:45	Posters & Demonstrations
	Megalith 1
16:45-17:00	Break







17:00-18:30 10T&CPS 2: Intelligent Computing and Sensing Megalith 2 Session Chair: TBA #224 Sdser: Online Deployment and Scheduling of Dynamic DAG Functions with Bayesian Prediction in Serverless Edge Computing Wentao Liu, Ruiting Zhou and Yue Ma #226 BaroAuth: Harnessing Ear Canal Deformation for Speaking User Authentication on Earbuds Luo Zhou, Shan Chang, Jiusong Luo, Huixiang Wen, Hongzi Zhu and Li Lu #317 TSAJS: Efficient Multi-Server Joint Task Scheduling Scheme for Mobile Edge Computing Chaoqun Li, Rongsheng Fan, Hesong Wang, Mingda Han, Si Wu, Feng Li and Pengfei Hu #479 Towards Visual-Inertial Integration: Multi-Modal Collaboration-based Video Stabilization Chaoran Li, Yanling Bu and Lei Xie 17:00-18:30 Edge 2: Edge Intelligence and Distributed Computing Megalith 3 Session Chair: TBA #444 Partitioning or Not? Hierarchical Task Offloading Optimization in Collaborative Satellite Edge Computing Networks Van Chen, Haiquan Wang, Jun Liu, Xiaolin Jia, Jiejie Zhao and Han Qiu #459 HERACLES: Hierarchical Semantic Communications for Distributed Dynamic Sensor Fusion Langtian Qin, Yashuo Wu, Sameh Najeh, Marco Levorato and Carla Fabiana Chiasserini #507 Optimizing WebAssembly Garbage Collection in Go: Performance Insights, Tuning Tips, and Batch Execution Strategies Safia Guelili and Marc Sanchez-Artigas #858 Efficient Partitioning Vision Transformer on Edge Devices for Distributed Inference Xiang Liu, Yijun Song, Xia Li, Yifei Sun, Huiying Lan, Zemin Liu, Linshan Jiang and Jialin Li 17:00-18:30 Industry 3 Room 4 Session Chair: TBA #51 Leveraging Federated Learning for Decentralized Semi-Supervised Task-Informed Representation Learning for Sequential Data Maximilian Forstenhäusler, Daniel Külzer, Christos Anagnostopoulos, Shameem Puthiya Parambath and Natascha Weber #173 AutoFairML: An Automated Middleware for Fairness Auditing in Real-world Al Pipelines Dimitrios Tomaras, Vana Kalogeraki, Christos Varytimidis, Evangelos Anagnostopoulos, Rahul Nair, Elizabeth M. Daly, Jakub Marecek and Dimitrios Gunopoulos i	17:00-18:30	Technical Afternoon Sessions 2
Megalith 2 Session Chair: TBA #224 Sdes: Online Deployment and Scheduling of Dynamic DAG Functions with Bayesian Prediction in Serverless Edge Computing Wentao Liu, Ruiting Zhou and Yue Ma #226 BaroAuth: Harnessing Ear Canal Deformation for Speaking User Authentication on Earbuds Luo Zhou, Shan Chang, Jiusong Luo, Huixiang Wen, Hongzi Zhu and Li Lu #317 TSAJS: Efficient Multi-Server Joint Task Scheduling Scheme for Mobile Edge Computing Chaoqun Li, Rongsheng Fan, Hesong Wang, Mingda Han, Si Wu, Feng Li and Pengfei Hu #479 Towards Visual-Inertial Integration: Multi-Modal Collaboration-based Video Stabilization Chaoran Li, Vanling Bu and Lei Xie Edge 2: Edge Istelligence and Distributed Computing Megalith 3 Session Chair: TBA #444 Partitioning or Not? Hierarchical Task Offloading Optimization in Collaborative Satellite Edge Computing Networks Yan Chen, Haiquan Wang, Jun Liu, Xiaolin Jia, Jiejie Zhao and Han Qiu #459 HERACLES: Hierarchical Semantic Communications for Distributed Dynamic Sensor Fusion Langtian Qin, Yashuo Wu, Sameh Najeh, Marco Levorato and Carla Fabiana Chiasserini #507 Optimizing WebAssembly Garbage Collection in Go: Performance Insights, Tuning Tips, and Batch Execution Strategies Safia Guellil and Marc Sanchez-Artigas #858 Efficient Partitioning Vision Transformer on Edge Devices for Distributed Inference Xiang Liu, Vijun Song, Xia Li, Vifel Sun, Hulying Lan, Zemin Liu, Linshan Jiang and Jialin Li Industry 3 Room 4 Session Chair: TBA #51 Leveraging Federated Learning for Decentralized Semi-Supervised Task-Informed Representation Learning for Sequential Data Maximilian Forstenhäusler, Daniel Külzer, Christos Anagnostopoulos, Shameem Puthiya Parambath and Natascha Weber #173 AutoFairML: An Automated Middleware for Fairness Auditing in Real-world Al Pipelines Dimitrios Tomaras, Vana Kalogeraki, Christos Varytimidis, Evangelos Anagnostopoulos, Rahul Nair, Elizabeth M. Daly, Jakub Marecek and Dimitrios Gunopulos #39 TS-V2X: Trust-Based Safety V2X Middleware for Adaptive Situation Awareness in Autono	17:00 19:20	IoT&CDS 2: Intelligent Computing and Sensing
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#444 Partitioning or Not? Hierarchical Task Offloading Optimization in Collaborative Satellite Edge Computing Networks Yan Chen, Haiquan Wang, Jun Liu, Xiaolin Jia, Jiejie Zhao and Han Qiu #459 HERACLES: Hierarchical Semantic Communications for Distributed Dynamic Sensor Fusion Langtian Qin, Yashuo Wu, Sameh Najeh, Marco Levorato and Carla Fabiana Chiasserini #507 Optimizing WebAssembly Garbage Collection in Go: Performance Insights, Tuning Tips, and Batch Execution Strategies Safia Guellil and Marc Sanchez-Artigas #858 Efficient Partitioning Vision Transformer on Edge Devices for Distributed Inference Xiang Liu, Yijun Song, Xia Li, Yifei Sun, Huiying Lan, Zemin Liu, Linshan Jiang and Jialin Li 17:00-18:30 Industry 3 Room 4 Session Chair: TBA #51 Leveraging Federated Learning for Decentralized Semi-Supervised Task-Informed Representation Learning for Sequential Data Maximilian Forstenhäusler, Daniel Külzer, Christos Anagnostopoulos, Shameem Puthiya Parambath and Natascha Weber #173 AutoFairML: An Automated Middleware for Fairness Auditing in Real-world Al Pipelines Dimitrios Tomaras, Vana Kalogeraki, Christos Varytimidis, Evangelos Anagnostopoulos, Rahul Nair, Elizabeth M. Daly, Jakub Marecek and Dimitrios Gunopulos #39 TS-V2X: Trust-Based Safety V2X Middleware for Adaptive Situation Awareness in Autonomous Driving		
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Rahul Nair, Elizabeth M. Daly, Jakub Marecek and Dimitrios Gunopulos #39 TS-V2X: Trust-Based Safety V2X Middleware for Adaptive Situation Awareness in Autonomous Driving		
in Autonomous Driving		
Jimin Ryu, Subi Kim, Jieun Kang and Yong Ik Yoon		Jimin Ryu, Subi Kim, Jieun Kang and Yong Ik Yoon







#165 Unearthing Silent Data: Back to Basics in Process Design *Jae Sook Cheong and Junseong Bang*

19:00	Banquet (Crowne Plaza)

	Wednesday, 23 July 2025
08:00-09:00	Breakfast (Radisson Blu)
09:00-10:00	Keynote 3: Peter Pietzuch
	Megalith 2 & 3
10:00-10:30	Coffee break
10:30-12:00	Technical Morning Sessions 1
10:30-12:00	DS4AI/ML 4: Collaborative and Efficient Deep Learning
	Megalith 2
	Session Chair: TBA
	#533 Distributed DNN-based Video Analytics with Adaptive Multi-Device
	Collaboration
	Zhihao Xu, Maozhe Zhao, Qinya Li, Shengzhong Liu, Fan Wu and Guihai Chen
	#636 Rehearsal-free Federated Domain-incremental Learning
	Rui Sun, Haoran Duan, Jiahua Dong, Varun Ojha, Tejal Shah and Rajiv Ranjan
	#683 Enhancing In-network Aggregation with Adaptive Gradient Quantization for
	Multi-tenant Learning
	Huifeng Xing, Yinfan Hu, Hao Wang, Yang Chen, Zixuan Chen, Sen Liu and Yang Xu
	#700 Efficient Joint Communication and Computation Placement for Large-scale
	SNN Simulation on Supercomputers
	Yubing Bao, Zhihui Lu, Xin Du, Qiang Duan, Jirui Yang, Jin Zhao, Geyong Min, Yang Chen, Shijing Hu and Xin Wang
10:30-12:00	S&P3: Secure and Privacy-Preserving in Federated Learning Megalith 3
	Session Chair: TBA
	#502 A Lightweight Secure Aggregation Protocol for Federated Learning
	Applications
	Elina van Kempen, Qifei Li, Giorgia Azzurra Marson and Claudio Soriente
	#558 IB-SC:Simplify Key Management to Enable Quick Start for Short-session Path
	Validation
	Keji Miao, Xinghai Wei, Dongqi Han, Jie Yuan, Zhen Qin, Qun Li, Haiguang Wang and
	Tieyan Li
	#606 FLdetox: Detoxify Persistent Backdoors in Federated Learning
	Wenjuan Tang, Chenkai Liu, Yutong Jiang, Jianan Zhao and Peng Sun
	#637 PP-FCL: Privacy-Preserving Federated Continual Learning via Generative
	Replay and Incremental Representation Enhancement
	Zaobo He, Yunkun Wang, Zhipeng Cai and Yingshu Li
10:30-12:00	Alg1: Consensus and Coordination in Distributed Systems
	Finnieston
	Session Chair: TBA









	#376 Shared memory consensus on a ring: Epigenetic Consensus
	Petra Berenbrink, Funda Ergun, Anna Geisler and Yannic Maus
	#508 Skip Hash: A Fast Ordered Map Via Software Transactional Memory
	Matthew Rodriguez, Vitaly Aksenov and Michael Spear
	#559 Efficient Deterministic Distributed Computing in Ad-Hoc Wireless Networks
	Tomasz Jurdzinski and Dariusz Kowalski
	#572 TOB-SVD: Total-Order Broadcast with Single-Vote Decisions in the Sleepy
	Model
	Francesco D'Amato, Roberto Saltini, Thanh-Hai Tran and Luca Zanolini
10:30-12:00	Industry 4
	Room 4
	Session Chair: TBA
	Industry Keynote 2: Raúl Gracia
	#176 Monte Carlo Tree Search for Safe Decision Making at Unsignalized
	Intersections
	Zhihao Lin, Jianglin Lan, Christos Anagnostopoulos, Zhen Tian and David Flynn
	#180 Bringing Serverless Functions Closer To Citizen Science Mobile Applications
	Aleksander Slominski, Pedro Garcia Lopez and Daniel Alejandro Coll Tejeda
	#68 GUIDE: GNN-based Unified Incident Detection for Microservices Application
	Deployments
	Anurag Dutt, Doseok Jang, Joao Nadkarni, Kai Su and Anshul Gandhi

12:00-13:15	Lunch

13:15-14:45	Technical Afternoon Sessions 1
13:15-14:45	DS4AI/ML 5: Inference and Resource Management
	Megalith 2
	Session Chair: TBA
	#737 Wainscot: Tailoring Model Parallelism to Fit Device Memory Limits
	Xiaojuan Ma, Shashwat Jaiswal, Chirag Shetty, Chen-Wei Chou, Kevin Zhang and Indranil Gupta
	#893 Inferring Communities of Interest in Collaborative Learning-based Recommender Systems
	Yacine Belal, Mohamed Maouche, Sonia Ben Mokhtar and Anthony Simonet-Boulogne
	#855 Ripple: Scalable Incremental GNN Inferencing on Large Streaming Graphs
	Pranjal Naman and Yogesh Simmhan
	#928 MCaM: Efficient LLM Inference with Multi-tier KV Cache Management
	Kexin Chu, Zixu Shen, Sheng-Ru Cheng, Dawei Xiang, Ziqin Liu and Wei Zhang
13:15-14:45	E&D 1: Smart Infrastructure and Resource Management
	Megalith 3
	Session Chair: TBA
	#254 The Cloud, Like Building and Running Go Binaries
	Diana Arroyo, Paul Castro, Cora Coleman, Thuan Doan, Nick Mitchell, Sara Kokkila-
	Schumacher, Ed Seabolt, Alek Slominski, Ansu Varghese and Lionel Villard







#263 Smart Blue Light Pole-based Real-Time Crowd Counting for Smart Campuses Yitao Chen, Kaiqi Zhao, Krishna Gundu, Zohair Zaidi and Ming Zhao

#424 Space Booking: Enabling Performance-Critical Applications in Broadband Satellite Networks

Xiaojian Wang, Ruozhou Yu, Dejun Yang, Guoliang Xue, Qiushi Wei, Huayue Gu and Zhouyu Li

#473 Elastic Scheduling for Mix-Flow in Time-Sensitive Networking

Jiawei Huang, Yifeng Liu, Yiting Wang, Shengwen Zhou, Hui Li, Zhaoyi Li, Yijun Li, Qile Wang, Jishu Tian, Kengchang Chen and Jiacheng Xie

13:15-14:45

Mobile 1: Intelligent and Secure Mobile Computing

Finnieston

Session Chair: TBA

#28 Weighted Monitoring Interval Minimization for Disaster Surveillance with a

Wenzheng Xu, Yunrui Cao, Dandan Huang, Weifa Liang, Jianwei Zhang, Tang Liu, Jian Peng, Xiaohua Jia and Zichuan Xu

#199 DiVE: Differential Video Encoding for Online Edge-assisted Video Analytics on Mobile Agents

Jiangang Shen, Hongzi Zhu, Liang Zhang, Yunzhe Li, Shan Chang and Minyi Guo

#322 Partitioned Collaborative Inference for On-Device Models via Evolutionary Reinforcement Learning

Lin Tan, Pengzhan Zhou, Songtao Guo, Jun Zhao, Zhufang Kuang, Dewen Qiao and Lu Yang

#286 QuHE: Optimizing Utility-Cost in Quantum Key Distribution and Homomorphic Encryption Enabled Secure Edge Computing Networks Liangxin Qian, Yang Li and Jun Zhao

13:15-14:45

Industry 5

Room 4

Session Chair: TBA

#172 Artificial Intelligence and Radar-Enhanced Audio-Visual Speech Recognition for the Next Generation of Communication Technologies

Nour Ghadban, Hira Hammed, Elem Miranda, Qammer H. Abbasi, Muhammad Ali Imran, Jonathan Cooper and Julien Le Kernec

#63 Snowpark: Performant, Secure, User-Friendly Data Engineering and AI/ML Next To Your Data

Brandon Baker, Elliott Brossard, Chenwei Xie, Zihao Ye, Deen Liu, Yijun Xie, Arthur Zwiegincew, Nitya Kumar Sharma, Gaurav Jain, Eugene Retunsky, Mike Halcrow, Derek Denny-Brown, Istvan Cseri, Tyler Akidau and Yuxiong He

#174 Efficient and Safe Planner for Automated Driving on Ramps Considering Unsatisfication

Qinghao Li, Zhen Tian, Xiaodan Wang, Jinming Yang and Zhihao Lin

#175 Adaptive Field Effect Planner for Safe Interactive Autonomous Driving on Curved Roads

Qinghao Li, Zhen Tian, Xiaodan Wang, Jinming Yang and Zhihao Lin

#746 Correctness proof for a Ring-Learning-with-Errors Multi-Authority Ciphertext-Policy Attribute-Based Encryption Scheme







Jack Loughridge, Charuka Herath, Yogachandran Rahulamathavan, Chaminda Hewage, Imtiaz Khan, Lewis Kemp, Simon Bourne and Ali Shahaab

14:45-15:15	Coffee break
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15:15-16:45	Technical Afternoon Sessions 2
13.13-10.43	Technical Arterioon Sessions 2
15:15-16:45	AI/ML 3: Efficient and Secure Federated Learning
	Megalith 2
	Session Chair: TBA
	#603 Federated Learning with Workload Reduction through Partial Training of
	Client Models and Entropy-Based Data Selection
	Hongrui Shi, Valentin Radu and Po Yang
	#700 FodCII. Communication officiant Fodovated Looming with Consulative
	#709 FedSU: Communication-efficient Federated Learning with Speculative Updating
	Wei Yu, Chen Chen, Qinbin Li, Jieru Zhao, Shixuan Sun, Bo Li and Minyi Guo
	Wei Tu, Offeri Offeri, Qiribin Ei, Heru Zhao, Shixuan Sun, Bo Ei anu Finnyi Guo
	#825 A Client-level Assessment of Collaborative Backdoor Poisoning in Non-IID
	Federated Learning
	Phung Lai, Guanxiong Liu, Nhathai Phan, Issa Khalil, Abdallah Khreishah and Xintao Wu
15:15-16:45	E&D 2: Advanced Management and Distributed Execution
	Megalith 3
	Session Chair: TBA
	#545 Hetero\$^2\$Pipe: Pipelining Multi-DNN Inference on Heterogeneous Mobile
	Processors under Co-Execution Slowdown
	Yuhao Shen, Zichen Wang, Tianyi Wang, Chaojie Gu, Zhenyu Wen, Yuanchao Shu and Cong Wang
	Cong wang
	#654 Arsc: Automated Reconciliation for State Correctness of Cluster
	Management
	Hongjing Yu, Chaoqun Li, Tao Han and Pengfei Hu
	#902 Pamata Gata Schoduling in Distributed Quantum Computing
	#803 Remote Gate Scheduling in Distributed Quantum Computing Xu Xu, Yu Liu, Yingling Mao and Yuanyuan Yang
	Au Au, Tu Liu, Tingung Mao and Tuanyuan Tang
	#411 CloudQC: A Network-aware Framework for Multi-tenant Distributed Quantum
	Computing
	Ruilin Zhou, Yuhang Gan, Yi Liu and Chen Qian
15:15-16:45	Alg 2: Efficient and Resilient Distributed Coordination
	Finnieston
	Session Chair: TBA
	#594 Fast Self-Stabilizing Ranking
	Petra Berenbrink, Robert Elsässer, Thorsten Götte, Lukas Hintze and Dominik Kaaser
	#735 On the Complexity of Deterministic Distributed Wireless Link Scheduling
	Dariusz Kowalski and Miguel A. Mosteiro
	#778 Failure-Aware Tasking for Teams of Drones
	Jonathan Diller, Qi Han, Robert Byers, Yee Shen Teoh, John G. Rogers III and Neil
	Dantam









	#902 Distributed Non-Duplicate Sampling with Application on Network-wide Flow
	Cardinality Estimation
	Aayush Karki, Zibo Liu, Shigang Chen and Haibo Wang
15:15-16:45	Industry 6
	Room 4
	Session Chair: TBA
	#67 Performance of Confidential Computing GPUs
	Antonio Martínez Ibarra, Julian James Stephen, Aurora González Vidal, Antonio
	Fernando Skarmeta Gómez and Kallapalayam Radhakrishnan Jayaram
	#182 Optimized Data Transfer Strategies for Forward Command Centres in Distributed Wildfire Management
	Mustafa Al-Bado, Thuy Truong, Michal Sworzeniowski, Deirbhile Healy, Panagiotis Oikonomou and Kolomvatsos Kolomvatsos
	#184 Scheduling Inference Workloads in the Computing Continuum with Reinforcement Learning
	Gabriele Castellano, Juan-Jose Nieto, Antonino Angi, Francisco Alvarez Terribas, Jordi
	Luque, Ferran Diego, Alessio Sacco, Flavio Esposito and Fulvio Risso
	#200 Reconfiguration of Applications in Cloud-Edge Multi-clusters
	Marta Patiño-Martinez, Ainhoa Azqueta-Alzuaz and Aitor Agirre

16:45-17:15	Closing
19:00	Civic Reception (Glasgow City Chambers)

Thursday, 24 July 2025	
11:30-12:30	Exclusive Distillery Whiskey Tasting Tour 2 (Optional)

Sunday, 20	Poster Papers
July 2025 –	Megalith 1
Wednesday,	
23 July 2025	
	#17 Quantum Federated Aggregation using Joint Fidelity-and-Entropy Computation Seok Bin Son and Soohyun Park
	#21 Efficient Fine-tuning of Large Models under 4GB VRAM with Power-saving Strategies
	Dong Dong, Mingshu Zhai, Hui Zeng, Chengzhang Wu and Jidong Zhai
	#22 Fundamentals of Caching Layered Data objects
	Agrim Bari, Gustavo de Veciana and George Kesidis
	#23 ACC: Ensuring Eventual Consistency across Diverse Data Stores in End-Cloud Collaboration
	Wenbo Zhao, Longhai Li, Hui Li, Mingtao Chen, Mingsong Xie, Yuheng Chang and Jiangtao Cui
	#25 FedColab: Federated Collaborative Learning for Teacher-Student Knowledge Distillation









Wenhao Li, Christos Anagnostopoulos and Kevin Bryson

#28 Adaptive Region-aware Video Encoding for Real-time Cloud-edge **Collaborative Object Detection**

Bingyun Yang, Jingyi Ning, Wenhui Zhou, Chuyu Wang, Lei Xie, Zhenjie Lin and Liming Wang

#29 Convergence Behaviors and Variabilities of Loss Functions in Quantum GANs

Md Abdur Rahman, Alfredo Cuzzocrea and Hossain Shahriar

#31 EMO: Edge Model Overlays to Scale Model Size in Federated Learning Di Wu, Weibo He, Wanglei Feng, Zhenyu Wen, Bin Qian and Blesson Varghese

#32 Federated Learning for Privacy-Preserving Anomaly Detection in Electronic **Health Record Access Control**

Javier Martínez Llamas, Paolo Marcheschi, Stefano Dalmiani, Davy Preuveneers and Wouter Joosen

#33 A Federated Few-shot Learning Siamese Network Framework with Data Label **Imbalance**

Tahani Aladwani and Christos Anagnostopoulos

#35 Gradient Bandit Experts For Node Selection In Edge Computing

Saleh Abdullah Alfahad, Shameem A Puthiya Parambath, Christos Anagnostopoulos

#36 Federated Quantum Generative Adversarial Network for Intrusion Detection Franco Cirillo and Christian Esposito

#38 Detection of stealthy attack vectors in networked Industrial Control Systems using Machine Learning

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