IoT 2026 Conference Programme

17 – 20 November 2026

Day 1 — Tuesday, 17 November

Time	Activity	Venue
09:00 – 09:30	Registration & Breakfast	London Suite
09:30 – 12:30	**PARALLEL WORKSHOPS** **QSIoT Workshop — European Suite** **TrustFedEdge-IoT Workshop — Brussels Room** **RISE-DL Workshop — Paris Room** **National Edge AI Hub Session — European Suite** ***Coffee break 10:30 – 11:00***	
12:30 – 14:00	Lunch	London Suite
14:00 – 16:00	**TUTORIAL (PART 1)** **Applying Post-Quantum Cryptography and Quantum Key Distribution for Secure 6G Networks**	European Suite
16:00 – 16:30	Coffee Break	London Suite
16:30 – 17:30	**TUTORIAL (PART 2)** **Applying Post-Quantum Cryptography and Quantum Key Distribution for Secure 6G Networks**	European Suite
17:30	End of Day 1	

Day 2 — Wednesday, 18 November

Time	Activity	Venue
08:30 – 09:00	Registration & Breakfast	London Suite
09:00 – 09:20	Welcome from the General Chairs and Organising Chairs	European Suite
09:20 – 10:10	**KEYNOTE 1** **Decidability in the Age of AI: From Information to Meaningful Decisions** Speaker: **Prof. Vlado Stankovski**	European Suite
10:10 – 10:30	**SHORT INDUSTRIAL TALK BY** **Lenovo**	European Suite
10:30 – 11:00	Coffee Break	London Suite
11:00 – 12:30	**SESSION 1** 4 papers **#83** **Tracing Trust in Autonomous Driving: A Decision-Centred Ontology for Evidence, Security, and Safety Assurance** Abdulrahman Almijlad, Devki Nandan Jha and Tejal Shah **#49** **An Agentic AI Framework for Zero Trust Assessment in Multi-Cloud IoT Environments** Ayoub Gada, Yan Lin Aung and Nasr Abosata **#63** **Quantum Safe Authentication Protocol for Drone Communications with Malicious Trusted Party Resistance and Perfect Forward Secrecy** Ritu Gupta, Geeta Yadav, Aparajita Khan and An Braeken **#31** **Two Roads Diverged: Formal Protocol Analysis and IoT Intrusion-Detection Datasets** Sundararaju Mugunthan, Deepak Krishnamoorthy, K. Venkatesan, S. Baghavathi Priya, Syarifah Bahiyah Rahayu and Najah Alsubaie	European Suite
12:30 – 14:00	Lunch	London Suite

Time	Activity	Venue
14:00 – 15:30	**SESSION 2** 4 papers **#66** **Transferable Radiometric Fingerprinting for Embedded BLE Receivers via Light-weight Self-Calibration** George-Alexandru Stoian, Christian Rohner and Thiemo Voigt **#23** **Enabling Unified FL driven Application Deployment Across Heterogeneous Research Testbeds** Andreas Mendrinos, Georgios Paterakis, Roberto Yus and Georgios Bouloukakis **#33** **Neuro-Symbolic Rule Mining at the Edge: Per-Client Explanation for Federated Clinical Models** Zia Ur Rehman, Douglas Mota Dias, Saif Ul Islam and Conor Ryan **#56** **TERRA: Task-Oriented Edge AI for Regional Fire Detection with Identity-Free Reporting** Mohammad Kazemi and Julie A. McCann	European Suite
15:30 – 16:00	Coffee Break	London Suite
16:00 – 17:30	**SESSION 3** 4 papers **#19** **MOTU-LoRa: A Multi-hop Approach for Over-the-Air Firmware Update in LoRa Networks** Huy Dat Nguyen, Nicolas Le Sommer, Yves Mahéo and Lionel Touseau **#46** **Dynamic Adaptive Priority Scheduling for Efficient Resource Reservation in Deterministic Networks** Mohamed Elattar, Siyu Tang and Georg Carle **#57** **Server Receipt versus Modem Send Completion in Maritime GEO NB-IoT NTN** Toni Perkovic, Josip Šabić, Petar Šolić, Ivo Stančić and Nikola Brebrić **#84** **Migration as a Steady-State Execution Primitive: A Runtime for Virtual Stationarity in Low-Earth Orbit** Daniel Kleebinder, Alireza Furutanpey and Stefan Nastic	European Suite
17:30	End of Day 2	

Day 3 — Thursday, 19 November

Time	Activity	Venue
08:30 – 09:00	Registration & Breakfast	London Suite
09:00 – 09:50	**KEYNOTE 2** **Where Should Intelligence Live? Rethinking IoT Architectures for AI and XR** Speaker: **Prof. Jussi Kangasharju**	European Suite
09:50 – 10:10	**SHORT INDUSTRIAL TALK BY** **IOTech Systems Limited**	European Suite
10:10 – 10:30	Coffee Break	London Suite
10:30 – 12:30	**SESSION 4** 6 papers **#64** **A Wearable Industrial IoT System for Real-Time Biomechanics-based Occupational Risk Analytics** Abdur Forkan, Felip Marti, Sadia Nowshine, Prem Prakash Jayaraman, Abhik Banerjee and Dimitrios Georgakopoulos **#25** **No Frames, Just Frequencies: Bandwidth-Efficient Deployment-Time Adaptation for Smart Glasses** Francesco Corti, Moritz Becker and Olga Saukh **#34** **Multimodal Dataset Distillation via Matching Training Trajectories** Franz Papst, Omar Veledar, Shadi Attarha, Romana Blazevic and Olga Saukh **#53** **MAIR: A Multi-Agent Adaptive Data Recovery Framework for IoT Data Faults** Mohammad Tousif Shahriar, Abdur Rahim Mohammad Forkan, Abhik Banerjee and Prem Prakash Jayaraman **#14** **Impact of Training Data Contamination on Unsupervised Time Series Anomaly Detection** Thomas Strametz, Fatima Jammoul, Müslüm Atas, Olga Saukh and Joachim Schauer **#9** **Energy-Aware RPL Parent Selection using Lightweight SARSA and Federated Weight Sharing** Francesco Theuma, Etienne Depasquale and Gianluca Valentino	European Suite
12:30 – 14:00	Lunch	London Suite

Time	Activity	Venue
14:00 – 15:30	**SESSION 5** 4 papers #22 **SemPAI: LLM-Based Parser Generation for Deterministic Conversion of Industrial Asset Data** Michael Prummer and Emanuel Regnath #38 **Diagnosing and Adapting Heterogeneous IoT Interfaces via RDF Lifting and Lowering** Michael Freund, Sebastian Schmid, Rene Dorsch and Andreas Harth #82 **Runtime Descriptions for Deployable Web of Things Applications** Leonhard Esterbauer, Max Thoma, Tobias Schwarzinger, Thomas Strasser and Wolfgang Kastner #35 **Disseminating Security Context from Specialized Hardware in the Computing Continuum** Shahin Abdoul Soukour and Georgios Bouloukakis	European Suite
15:30 – 16:00	Coffee Break	London Suite
16:00 – 17:30	**POSTERS & DEMOS SESSION** **(including 3 minute lightning talks)** #74 POSTER **Thermometer Tsetlin Machine: Low-Resource Regression for Lithium-ion Battery State-of-Charge Estimation** Shengyu Duan, Rishad Shafik and Alex Yakovlev #105 POSTER **Lightweight Transformers for Imbalanced IoT Intrusion Detection at the Edge** Ahmad Alito, Mohamed El Bouazzati, Guy Gogniat and Khaled Shaban #107 DEMO **Secure MQTT-based Communication for Remote Patient Monitoring in Healthcare IoT Systems** Juan Manuel Moreno-Cenizo, Jorge Ciudad-Real and David Martín-Sánchez #108 DEMO **SHIELD: Spatial Hazard Inference via Embedded Language and Depth for Worker Safety Risk Assessment in Physical Workplaces** Paul Cornelius Bong, Mark Kit Tsun Tee, Prem Prakash Jayaraman, Bee Theng Lau and Hudyjaya Siswoyo Jo	European Suite

Time	Activity	Venue
	#115 POSTER **Framework for Cyber Digital Twin-Driven Cyber Ranges** Sabah Suhail, Mubashar Iqbal, Susan Rea and George O' Mahony #109 POSTER **Accuracy and Inference Cost of Whisper for Dysarthric Speech Recognition** Lua Topic, Jennifer Williams and Xiaoliang Wu #110 DEMO **SpatioTemporal Factory Twin Framework for Process Localisation and Mapping in Manufacturing Plants** Liam Bradley, Abhik Banerjee, Prem Prakash Jayaraman, Ashish Manchanda and Abdur Forkan #111 POSTER **Post Quantum Security and Privacy Issues for 5G/6G-Enabled IoT Networks** Rahul Mishra, Dr Awaneesh Kumar Yadav, Pradumn Kumar Pandey and Bhupendra Singh #112 POSTER **Searching for S-Boxes with Improved Diffusion Using an Evolutionary Algorithm for AES-Based IoT Security** Rahul Mishra, Dr Awaneesh Kumar Yadav, Radhakrishnan Delhibabu and Bhupendra Singh #114 POSTER **A Copy-Paste + CycleGAN based IoT-Edge-AI System for In-Line Defect Detection in Concrete Sleepers** Shihan Xu, Felip Marti, Shuo Wang, Abdur Forkan, Christopher McCarthy, Prem Prakash Jayaraman and Hailing Zhou #6 POSTER **A Programmable Receiver for Marine Internet of Things** Chien-Chang Huang and Chung-An Shen	
17:30	End of Day 3 sessions	
19:30 – 22:00	**Gala Dinner**	London Suite

Day 4 — Friday, 20 November

Main Conference & Closing

Time	Activity	Venue
08:30 – 09:00	Registration & Breakfast	London Suite
09:00 – 10:00	**KEYNOTE 3** **The Road to Agentic Edge AI: From Small Models to Autonomous Systems** Speaker: **Prof. Blesson Varghese**	European Suite
10:00 – 10:30	Coffee Break	London Suite
10:30 – 12:30	**SESSION 6** 5 papers **#10** **An SPN-Based Dependability and Cost Framework for Software Rejuvenation in Smart Street Lighting Systems** Cleunio França Filho, Thiago Valentim, Eric Borba, Filipe Souza and Andson Balieiro **#21** **Multi-Sensor IoT Platform for Farm Animal Welfare Monitoring: Edge Classification, Live Dashboard Visualisation and Comparative Vision Model Evaluation** Chidike Vincent, Aliyuda Ali, Pratikshya Sharma, Sarah Wild and Abdel-Karim Al Tamimi **#45** **Agent-based Deployment on FPGA-based Edge Devices** Mohammed Mshragi, Ioan Petri, Othmane Belarbi, Charith Perera and Omer Rana **#47** **COMET: Client Optimization for Model training under Energy and Transmission constraints in federated satellite learning** Danny De Novi, Andrija Stanisic, Lorenzo Carnevale, Roberto Marino, Stefan Nastic and Massimo Villari **#51** **Hardware Resource Trade-offs of Tree- and Neural-Based Inference at the Edge** Qijia Tang, Zhiqiang Que, Dinesh Pamunuwa and Roshan Weerasekera	European Suite
12:30 – 14:00	Lunch	London Suite

Time	Activity	Venue
14:00 – 15:00	**SESSION 7** 3 papers **#16** **Digital Twins for Uncertainty Mitigation in Self-Adaptive Smart City IoT Systems** Bala Likhith Kanigolla, Sasidhar Varada, Philipp Zech and Karthik Vaidhyanathan **#26** **AV-BenchGen: A Deterministic Edge-Computable Environment Generator for Autonomous-Vehicle Controller Benchmarking in GNSS-Denied and Adverse-Weather Operational Zones** Ujjwal Singh and Pradumn Pandey **#48** **Rotation Augmentation Buys Tolerance, Not Invariance: Measuring Sensor Displacement in Wearable Activity Recognition** Ashwath Ram	European Suite
15:00 – 15:30	Coffee Break	London Suite
15:30 – 16:30	**Academia Europaea Panel: Horizon Scan of Security Vulnerabilities of Ai In IoT Applications** **Chair: Prof. Erol Gelenbe** **Panel members:** **Prof. Rajiv Ranjan** — Newcastle University **Prof. Alex Yakovlev** — Newcastle University **Prof. Omer Rana** — Cardiff University **Prof. Varuna De Silva** — Aston University **Prof. Blesson Varghese** — University of St Andrews	European Suite
16:30 – 17:30	**Closing Ceremony** Best Paper Awards and Edge AI Awards	European Suite
17:30	End of Conference	