9th IFIP International Internet of Things Conference (IFIP IoT 2026)

11 to 12 November 2026

Organized by: College of Computing and Artificial Intelligence, UAEU, Al Ain, UAE
Venue: Male Auditorium, College of Computing and Artificial Intelligence UAEU, Al Ain, UAE

Conference Program

Day 1 [Wednesday] (11 Nov 2026)

Venue	Time				
UAEU Library Theater (CRESCENT - B2001)	8:30 – 10:30 AM	**Registration**			
	10:30 - 10:40 AM	**Welcome Address**			
	10:40 - 10:50 AM	**Address by His Excellency Zaki Anwar Nusseibeh,** Conference Patron and Chancellor of the United Arab Emirates University.			
	10:50 - 11:00 AM	**Address by Prof. David Camacho Fernandez** Dean of the College of Computing and Artificial Intelligence			
	11 AM - 12 PM	**Keynote 1: Prof. Keith Ross** New York University Abu Dhabi, UAE			
	12 PM - 01 PM	**Keynote 2: Dr. Manzoor Khan** Professor of Applied AI at MBZUAI and CTO of Bell Labs Venture Studio, New Jersey, USA			
Male Auditorium -CCAI	01 PM - 02 PM	**Lunch Break**			
	02 PM - 3:30 PM	**Technical Session 1 (TS1)** IoT Systems, Architectures, and Emerging Communications	**Technical Session 2 (TS2)** Artificial Intelligence and Machine Learning for IoT	**Tutorial 1** Dr. Aamna AlShehhi Khalifa University	**Panel Session** ADNOC Panel - Shabab AI: Empowering Youth to Shape the Future of AI and IoT
	3:30 PM - 4 PM	Coffee Break/Networking			
	4 PM - 5:30 PM	**Technical Session 3 (TS3)** IoT Security and Privacy	**Technical Session 4 (TS4)** Intelligent Sensing and Data Analytics for Smart IoT	**Poster Session** Student Poster Presentation	
	7 PM - 10 PM	Social Gathering/Networking			

Day 2 [Thursday] (12 Nov 2026) – Venue: Male Auditorium -CCAI

8:30 - 10 AM	**Registration**		
9 AM - 10 AM	**Keynote 3: Prof. Pietro Manzoni** Polytechnic University of Valencia, Spain		
10 AM - 11 AM	**Keynote 4: Prof. Mohamed-Slim Alouini** King Abdullah University of Science and Technology, KSA		
11.00 - 11.30 AM	Coffee Break/Networking		
11:30 AM - 1 PM	**Technical Session 5 (TS5)** Intelligent Cloud–Edge–IoT Continuum	**Technical Session 6 (TS6)** Sustainable and Trustworthy Edge Intelligence for IoT Ecosystems	**Tutorial 2** Dr. Norbert Tihanyi TII, Abu Dhabi, UAE
01 PM - 02 PM	Lunch Break		
2 PM - 3:30 PM	**Technical Session 7 (TS7)** Distributed Edge Computing and Adaptive Multi-Tier Frameworks	**Technical Session 8 (TS8)** Resilient and Sustainable Edge-AI Architectures for IoT	**Industry Demo** Technical Presentation from MATLAB
3.30 PM - 4 PM	Coffee Break/Networking		
4 PM - 5:30 PM	**Technical Session 9 (TS9)** AI-Driven Communication and Networking for 6G and beyond	**Technical Session 10 (TS10)** Intelligent Condition Monitoring and Fault Diagnosis in IoT	
7 PM to 10 PM	Gala Dinner & Award Announcement		

Technical Session Details

Technical Session 1 (TS1): IoT Systems, Architectures, and Emerging Communications

Time: 2:00 PM – 3:30 PM ***Venue: TBA*** ***Session Chair: TBA***

- **Paper 56:** Low Cost and Efficient IoT based Solution for Smart Bin Management
- **Paper 60:** Mirqab: An AI-Enabled IoT Platform for Intelligent Parking Monitoring and Management
- **Paper 141:** Smart Hydro-Aquaponic Garden Tower: IoT-Based Automated System
- **Paper 145:** A KPI-Driven Evaluation Framework for Lifecycle Governance and Interoperability in Utility Internet of Things (UIoT) Systems
- **Paper 153:** On Integrating Robotic Devices at the Edge Layer: NebulaStream-based Architecture

Technical Session 2 (TS2): Artificial Intelligence and Machine Learning for IoT

Time: 2:00 PM – 3:30 PM ***Venue: TBA*** ***Session Chair: TBA***

- **Paper 42:** A Hybrid Approach to Phishing Email Detection: Leveraging Machine Learning and LLM-Generated Synthetic Data
- **Paper 81:** Genomic Inspired K-Mer Tokenization of Multi-View Forensic Representations for Explainable Deepfake Image Detection
- **Paper 84:** Two-Valued Symmetric Circulant Matrices: Applications in Deep Learning
- **Paper 95:** A Soft Voting Ensemble Framework with Grid Search Optimization for Diabetes Prediction
- **Paper 150:** Benchmarking Temporal Multi-Channel CNN-LSTM Models for 24-Hour M-Class Solar Flare Forecasting Using SDOBenchmark

Technical Session 3 (TS3): IoT Security and Privacy

Time: 4:00 PM – 5:30 PM ***Venue: TBA*** ***Session Chair: TBA***

- **Paper 46:** A Dual-Mode Subthreshold Metastability PUF with Authentication-Controlled Power Gating for Secure Energy-Harvesting IoT Nodes
- **Paper 61:** ECA-Guard: Explainable Hybrid Security Verification for IoT–Cloud Applications Using Event–Condition–Action Behavioral Modeling
- **Paper 87:** SecureGovChain: A Policy-Aware Blockchain Framework for Revocation-Consistent Government Document Verification
- **Paper 89:** LLMTrustChain: A Hardware-Rooted Blockchain Framework for Tamper-Evident Verification of LLM Outputs
- **Paper 173:** SAWAS: A Self-Adjusting Web Application Security Suite with Autonomous Rule-Based Reasoning for Dynamic Paranoia Level Control

Technical Session 4 (TS4): Intelligent Sensing and Data Analytics for Smart IoT

Time: 4:00 PM – 5:30 PM ***Venue: TBA*** ***Session Chair: TBA***

- **Paper 52:** Beyond the Training Horizon: A Systematic Architecture Characterization for Intelligent Plant Disease Detection
- **Paper 71:** Anomaly detection of IoT devices using Isolation Forest algorithm
- **Paper 88:** Artificial Intelligence based Data Analysis for the Effectiveness Study of Different Ayurvedic Medication Methods to Prevent Pandemic-Associated Fever Spreading
- **Paper 96:** AI Surveillance System for Public Safety and Emergency Response
- **Paper 158:** Immersive Digital Twins for Academic Credential Equivalency and AI-based Hiring with Cybersecurity Considerations: A Systematic Literature Review

Technical Session 5 (TS5): Intelligent Cloud–Edge–IoT Continuum

Time: 11:30 AM – 1:00 PM ***Venue: TBA*** ***Session Chair: TBA***

- **Paper 72:** APS: Adaptive Priority Scheduler for Pipeline-Aware MLOps Workloads on Kubernetes
- **Paper 109:** ReliSphere: Forecasting Operational Risk and Resilience Dynamics in Financial Data Pipeline Ecosystems
- **Paper 110:** A Predictive AI-Driven Middleware Performance Optimization and Capacity Planning Framework for High-Availability Healthcare Enterprise Systems
- **Paper 112:** SAC-PTO: Soft Actor-Critic Predictive Task Offloading for the Internet of Vehicles
- **Paper 116:** AIOps-Enabled Real-Time Resource Management Across the Cloud–Edge–IoT Continuum: An Open-Source VRLI Extension for Apache Cassandra

Technical Session 6 (TS6): Sustainable and Trustworthy Edge Intelligence for IoT Ecosystems

Time: 11:30 AM – 1:00 PM ***Venue: TBA*** ***Session Chair: TBA***

- **Paper 27:** Design and Feasibility Evaluation of a TinyML-Driven Intrusion Detection Framework for In-Vehicle Electric Systems
- **Paper 37:** FairVFL: Monotonic Fairness Correction for Incentive-Driven Vehicular Federated Learning
- **Paper 54:** Federated Learning-based Intrusion Detection for IoT Systems: A Practical Evaluation
- **Paper 78:** Enhancing Threat Detection in IoT Systems through Explainable AI: A Comparative Study of Machine Learning and XAI-integrated Models
- **Paper 82:** MacroGLU: Explainable and Privacy-Aware Edge Intelligence for Meal-Level Postprandial Glucose Response Modeling

Technical Session 7 (TS7): Distributed Edge Computing and Adaptive Multi-Tier Frameworks

Time: 2:00 PM – 3:30 PM ***Venue: TBA*** ***Session Chair: TBA***

- **Paper 98:** Gossamer: Distributed QoS-Aware Request Routing for Stateful LLM Inference at the Edge
- **Paper 146:** Multi-Agent based Management of Kubernetes Edge Networks
- **Paper 166:** A Comparative Analysis of Multi-Objective Path Planning and Energy Optimization Strategies for Autonomous Healthcare Delivery Robots
- **Paper 172:** Sparse Visibility Potential Fields: Fast, Trap-Free Planning for Resource-Constrained IoT Robots

Technical Session 8 (TS8): Resilient and Sustainable Edge-AI Architectures for IoT

Time: 2:00 PM – 3:30 PM ***Venue: TBA*** ***Session Chair: TBA***

- **Paper 57:** Harvest Guard: A Deployable Edge Intelligence Architecture for Smart Agricultural Monitoring and Plant Disease Detection
- **Paper 59:** Vision-Based Fatigue Detection Using Edge Artificial Intelligence, and Internet of Things Technologies
- **Paper 79:** Hardware-Aware One-Shot NAS for Lightweight CNNs: A Latency-Constrained Evolutionary Search on Tiny-ImageNet
- **Paper 127:** REFLEX: Stateless Statistical Gating for Zero-Shot Resilience Against Adversarial Feature Corruption in NIDS

Technical Session 9 (TS9): AI-Driven Communication and Networking for 6G and beyond

Time: 4:00 PM – 5:30 PM ***Venue: TBA*** ***Session Chair: TBA***

- **Paper 58:** A Centralized Network Semantics Ontology for Improved Communication Quality and Reliability in IoT/IoV Environments
- **Paper 100:** s ~ t-MPS: Source-to-Target Minimal Path Set Based Reliability Estimation in IIoT Sensor Networks
- **Paper 117:** Exploiting CKKS-based Homomorphic Encryption in Federated Learning: A Hybrid Attack under Adverse Deployment Conditions
- **Paper 154:** A Dynamic BLE PHY Switching Model for Data Collection Optimization in UAV-Assisted WSNs
- **Paper 160:** Multi-Band Rydberg Atomic Receivers for Heterogeneous IoT: A Communication-System Perspective

Technical Session 10 (TS10): Intelligent Condition Monitoring and Fault Diagnosis in IoT

Time: 4:00 PM – 5:30 PM ***Venue: TBA*** ***Session Chair: TBA***

- **Paper 122:** Unsupervised Anomaly Detection in IoT-Driven Hydroponics Systems Using Isolation Forest: A Multivariate Sensor Monitoring Framework
- **Paper 148:** It's All in the Data: A Review of Internet-of-Things Intrusion Detection Datasets
- **Paper 151:** A Cognitive Digital Twin Framework for Predictive Academic Risk Intervention Using Temporal Learning Drift
- **Paper 152:** Drift-Aware Learner Prioritization Under Capacity Constraints: A Data-Driven Framework for Academic Early Intervention
- **Paper 155:** Lightweight Vision-Based Anomaly Detection for UAV-Enabled Smart Infrastructure Monitoring: A Survey