9th IFIP International Internet of Things (IoT) Conference 2026, Al Ain, UAE

List of accepted papers

* The paper should be presented by the author who submitted their documents and successfully obtained administrative approval.

Paper ID	Paper Title	Presenter *	Technical Session
27	Design and Feasibility Evaluation of a TinyML-Driven Intrusion Detection Framework for In-Vehicle Electric Systems	Ruhul Amin	TS6
37	FairVFL: Monotonic Fairness Correction for Incentive-Driven Vehicular Federated Learning	Abir Raza	TS6
42	A Hybrid Approach to Phishing Email Detection: Leveraging Machine Learning and LLM-Generated Synthetic Data	Hessa Hassan Shamal	TS2
46	A Dual-Mode Subthreshold Metastability PUF with Authentication-Controlled Power Gating for Secure Energy-Harvesting IoT Nodes	Saswat Kumar Ram	TS3
52	Beyond the Training Horizon: A Systematic Architecture Characterization for Intelligent Plant Disease Detection	Kiran Kumar Kethineni	TS4
54	Federated Learning-based Intrusion Detection for IoT Systems: A Practical Evaluation	Belal Al Singlawi	TS6
56	Low Cost and Efficient IoT based Solution for Smart Bin Management	Mayher Tyagi	TS1
57	Harvest Guard: A Deployable Edge Intelligence Architecture for Smart Agricultural Monitoring and Plant Disease Detection	Tarek Elsaka	TS8
58	A Centralized Network Semantics Ontology for Improved Communication Quality and Reliability in IoT/IoV Environments	Aya Ahmed	TS9
59	Vision-Based Fatigue Detection Using Edge Artificial Intelligence, and Internet of Things Technologies	Maida Alamgir	TS8
60	Mirqab: An AI-Enabled IoT Platform for Intelligent Parking Monitoring and Management	Abdulmalik Alwarafy	TS7
61	ECA-Guard: Explainable Hybrid Security Verification for IoT–Cloud Applications Using Event–Condition–Action Behavioral Modeling	Omar Mahmoud Sherif	TS3
71	Anomaly detection of IoT devices using Isolation Forest algorithm	Wasim Yasin	TS4
72	APS: Adaptive Priority Scheduler for Pipeline-Aware MLOps Workloads on Kubernetes	Ritoban Dutta	TS5
78	Enhancing Threat Detection in IoT Systems through	Norziana	TS6

	Explainable AI: A Comparative Study of Machine Learning and XAI-integrated Models	Jamil	
79	Hardware-Aware One-Shot NAS for Lightweight CNNs: A Latency-Constrained Evolutionary Search on Tiny-ImageNet	Sambit Kumar Mishra	TS8
81	Genomic Inspired K-Mer Tokenization of Multi-View Forensic Representations for Explainable Deepfake Image Detection	Gagan P	TS2
82	MacroGLU: Explainable and Privacy-Aware Edge Intelligence for Meal-Level Postprandial Glucose Response Modeling	Indira Devi Siripurapu	TS6
84	Two-Valued Symmetric Circulant Matrices: Applications in Deep Learning	Jayakrishna Amathi	TS2
87	SecureGovChain: A Policy-Aware Blockchain Framework for Revocation-Consistent Government Document Verification	Arup Sarkar	TS3
88	Artificial Intelligence based Data Analysis for the Effectiveness Study of Different Ayurvedic Medication Methods to Prevent Pandemic-Associated Fever Spreading	Bharath Prasoon N	TS4
89	LLMTrustChain: A Hardware-Rooted Blockchain Framework for Tamper-Evident Verification of LLM Outputs	Sai Sri Harsha Chakravarthula	TS3
95	A Soft Voting Ensemble Framework with Grid Search Optimization for Diabetes Prediction	Rajiv Senapati	TS2
96	AI Surveillance System for Public Safety and Emergency Response	Deepasikha Mishra	TS4
98	Gossamer: Distributed QoS-Aware Request Routing for Stateful LLM Inference at the Edge	Qifan Deng	TS7
100	s ~ t-MPS: Source-to-Target Minimal Path Set Based Reliability Estimation in IIoT Sensor Networks	Niranjan Kumar Ray	TS9
109	ReliSphere: Forecasting Operational Risk and Resilience Dynamics in Financial Data Pipeline Ecosystems	Pamula Udayaraju	TS5
110	A Predictive AI-Driven Middleware Performance Optimization and Capacity Planning Framework for High-Availability Healthcare Enterprise Systems	Pamula Udayaraju	TS5
112	SAC-PTO: Soft Actor-Critic Predictive Task Ofloading for the Internet of Vehicles	Sambit Kumar Mishra	TS5
116	AIOps-Enabled Real-Time Resource Management Across the Cloud–Edge–IoT Continuum: An Open-Source VRLI Extension for Apache Cassandra	Sambit Kumar Mishra	TS5
117	Exploiting CKKS-based Homomorphic Encryption in Federated Learning: A Hybrid Attack under Adverse	Pradip Kumar	TS9

	Deployment Conditions	Sharma	
122	Unsupervised Anomaly Detection in IoT-Driven Hydroponics Systems Using Isolation Forest: A Multivariate Sensor Monitoring Framework	S. Anusha Seles	TS10
127	REFLEX: Stateless Statistical Gating for Zero-Shot Resilience Against Adversarial Feature Corruption in NIDS	Sohini Banerje	TS8
141	Smart Hydro-Aquaponic Garden Tower: IoT-Based Automated System	Avent Prakasa Rao	TS1
145	A KPI-Driven Evaluation Framework for Lifecycle Governance and Interoperability in Utility Internet of Things (UIoT) Systems	Milena Kraeva	TS1
146	Multi-Agent based Management of Kubernetes Edge Networks	Amanjot Kaur	TS7
148	It's All in the Data: A Review of Internet-of-Things Intrusion Detection Datasets	Mohamme d M. Alani	TS10
150	Benchmarking Temporal Multi-Channel CNN-LSTM Models for 24-Hour M-Class Solar Flare Forecasting Using SDOBenchmark	Mustaqee m Khan	TS2
151	A Cognitive Digital Twin Framework for Predictive Academic Risk Intervention Using Temporal Learning Drift	Muneeswa ri S	TS10
152	Drift-Aware Learner Prioritization Under Capacity Constraints: A Data-Driven Framework for Academic Early Intervention	Muneeswa ri S	TS10
153	On Integrating Robotic Devices at the Edge Layer: NebulaStream-based Architecture	Robert Wrembel	TS1
154	A Dynamic BLE PHY Switching Model for Data Collection Optimization in UAV-Assisted WSNs	Pietro Manzoni	TS9
155	Lightweight Vision-Based Anomaly Detection for UAV-Enabled Smart Infrastructure Monitoring: A Survey	Sreelatha Chandran	TS10
158	Immersive Digital Twins for Academic Credential Equivalency and AI-based Hiring with Cybersecurity Considerations: A Systematic Literature Review	Reem Alhamimi	TS4
160	Multi-Band Rydberg Atomic Receivers for Heterogeneous IoT: A Communication-System Perspective	Maryam Tariq	TS9
166	A Comparative Analysis of Multi-Objective Path Planning and Energy Optimization Strategies for Autonomous Healthcare Delivery Robots	Anang Hudaya Muhamad Amin	TS1
172	Sparse Visibility Potential Fields: Fast, Trap-Free Planning for Resource-Constrained IoT Robots	Mohamme d Baziyad	TS7
173	SAWAS: A Self-Adjusting Web Application Security Suite with Autonomous Rule-Based Reasoning for Dynamic Paranoia Level Control	Khaled Ammar Maarouf	TS3