

Contents

LongevIoT 2025: 2nd International Workshop on Longevity in IoT Systems	1
Neural Caching: Improving Longevity of Smart IoT Devices running Artificial Neural Networks	1
Hybrid IoT Platform Architectures for Flexible and Longstanding Deployments	8
From Noise to Knowledge: A Comparative Study of Acoustic Anomaly Detection Models in Pumped-storage Hydropower Plants	17
ScaleSys 2025: 1st International Workshop on Intelligent and Scalable Systems across the Computing Continuum	25
From Latency to Engagement: Technical Synergies and Ethical Questions in IoT-Enabled Gaming	25
WebAssembly on Resource-Constrained IoT Devices: Performance, Efficiency, and Portability	29
Serverless Everywhere: A Comparative Analysis of WebAssembly Workflows Across Browser, Edge, and Cloud	36
Wi-Fi Enabled Edge Intelligence Framework for Smart City Traffic Monitoring using Low-Power IoT Cameras	43
Predicting Encoding Energy from Low-Pass Anchors for Green Video Streaming	50
Toward Sustainability-Aware LLM Inference on Edge Clusters	57
Tutorials	61
Orchestrating Hierarchical Federated Learning Pipelines with the AIOtwin Middleware	61