Day 1: 13 Nov. 2024 (D502)

8:30 - 9:00 — **Registration & welcome coffee**

9:00 - 9:30 — **Opening remarks**
Welcome by the conference chairs and introduction to MobiQuitous 2024.
Tor-Morten Grønli and Ahmet Soylu

9:30 - 10:30 — **Keynote 1**
"Think Broader, Run Local: Towards Neuro-Symbolic AI at the Edge"
Speaker: Radu Prodan.

10:30 - 11:00 — **Coffee break**

11:00 - 12:45 — **Session 1, chaired by Huamin Ren**

- **11:00 - 11:20** — **350861**: A Framework for Devising, Evaluating, and Fine-tuning Indoor Tracking Algorithms
- **11:20 - 11:40** — **350862**: A Preliminary Study on Core Temperature Estimation Using a Neonatal Thermal Model via Backpropagation Algorithm
- **11:40 - 12:00** — **350860**: A Service-based Real-time Anomaly Detection Method for Sensor Stream Data
- **12:00 - 12:20** — **351466**: A Two-Step Deep Neural Network Approach for Real-Time Context-Aware Health Monitoring of Hajj Pilgrims
- **12:20 - 12:40** — **350816**: Resilience Against APTs: A Provenance-based IIoT Dataset for Cybersecurity Research

12:45 - 13:45 — **Lunch break (D301)**

13:45 - 15:30 — **Session 2, chaired by Guru Bhandari**

- **13:45 - 14:05** — **348542**: Adaptive Deployment of Application-level Sensing and Data Processing Pipelines in a Wireless Network of Embedded Devices
- **14:05 - 14:25** — **350619**: AI Robust Anomaly Localization for DC Microgrid Using Adversarial Autoencoder
- **14:25 - 14:45** — **350647**: Automatic Marker Placement Method for Marker-based Virtual Reality
- **14:45- 15:05** — **351312**: Wearable-based Fair and Accurate Pain Assessment Using Multi-Attribute Fairness Loss in Convolutional Neural Networks
- **15:05- 15:25** — **349878**: Resource-aware Mixed-precision Quantization for Enhancing Deployability of Transformers for Time-series Forecasting on Embedded FPGAs

15:30 - 16:00 — **Coffee break**

16:00 - 18:05 — **Session 3, chaired by Onur Duman**

- **16:00 - 16:20** — **348702**: Deep Generative Domain Adaptation with Temporal Relation Knowledge for Cross-User Activity Recognition

- **16:20 - 16:40 — 350495**: DERGB: An Android malware adversarial attack technique based on RGB images
- **16:40 - 17:00 — 350376**: Scene Graph driven Context Query Generation: A Focus on Diversity and Situation-Specific Queries
- **17:00 - 17:20 — 348721**: Simulating and Evaluating Search Strategies for Highly Accurate Localization based on Wireless Technologies using Autonomous Unmanned Aerial Vehicles
- **17:20 - 17:40 — 350499:** Real-time mobile health analytics & interventions pipeline to detect acute events in COPD
- **17:40 - 18:00 — 348496:** Collection Scheduling with Memory Constraints for Low Earth Orbit Satellite Constellations

19:00 - 21:30 — Gala dinner
Havsmak restaurant, Kirsten Flagstads Plass 1, 0255 Oslo (Oslo Opera House)

Day 2: 14 Nov. 2024 (D502)

9:00 - 10:00 — Keynote 2
"Energy Edge Intelligence"
Speaker: Sabita Maharjan.

10:00 - 10:30 — Coffee break

10:30 - 12:15 — Session 4, chaired by Kjetil Raaen

- **10:30 - 10:50 — 350853**: EEGAmp+: Investigating the Efficacy of Functional Connectivity for Detecting Events in Low Resolution EEG
- **10:50 - 11:10 — 348351**: Environment Independent Fall Detection with WiFi Streams
- **11:10 - 11:30 — 350863**: Establishing a Data-Efficient Witness Protocol for Connected Autonomous Vehicles
- **11:30 - 11:50 — 345554**: Event-driven Performance Evaluation of Statecharts and MicroPython on ESP32-C3 Platforms
- **11:50 - 12:10 — 351350**: Simulating Urban Pedestrian Flows by Fusing Wide-Area Location Data and Spot Pedestrian Counts

12:15 - 13:15 — Lunch break (D601)

13:15 - 15:00 — Session 5, chaired by Guru Bhandari

- **13:15 - 13:35 — 350460**: Exploiting NLOS Links for Opportunistic Routing in Internet of Vehicles: An Energy-Efficient Optimized Approach
- **13:35 - 13:55 — 350218**: Genetic Algorithm Optimization for Mobile Crowd-sensing of On-street Parking
- **13:55 - 14:15 — 350583**: GNN-XAR: A Graph Neural Network for Explainable Activity Recognition in Smart Homes
- **14:15 - 14:35 — 350549**: Smartphone Contact-Object Estimation by Acoustic Sensing Focusing on Abstraction Level

- **14:35 - 14:55** — **350425**: Spatio-Temporal Analysis of Concurrent Networks

15:00 - 15:30 — **Coffee break**

15:30 - 17:35 — **Session 6, chaired by Gebremariam Assres**

- **15:30 - 15:50** — **350584**: MDMV: A Malware Detection Method based on Memory and Visualization on KVM
- **15:50 - 16:10** — **350542**: Real-Time Obstacle Detection and Safe Operation for Industrial Autonomous Mobile Robots
- **16:10 - 16:30** — **350279**: Supporting an Ephemeral Shared Dataspace with a BLE connectionless protocol
- **16:30 - 16:50** — **350512**: Verifying Multi-Vendor IoT Deployments using Conditional Tables
- **16:50 - 17:10** — **350600:** CSI Phase Fingerprinting for Indoor Positioning Services using Deep Reinforcement Learning
- **17:10 - 17:30** — **349651:** VF-RL: A Reinforcement Learning-Based Coverage Improvement in Mobile IoT Networks using Virtual Force

17:30— Closing remarks
Wrap-up and future directions for MobiQuitous.