

Fachgespräch Sensornetze (FGSN) 2024 Schedule

Monday September 2nd

13:00-13:45	Arrival
13:45-14:00	Opening Remarks
14:00-15:30	Session 1: Approaches Chair: Olaf Landsiedel
15:30-15:45	Break
15:45-16:45	Keynote: Thilo Steckel
16:45-17:00	Break
17:00-18:30	Session 2: Challenges Chair: Andreas Reinhardt
18:30-19:30	Dinner
19:30-21:00	Kicker Tournament

Tuesday September 3rd

9:00-10:00	Keynote: Olaf Landsiedel
10:00-10:15	Break
10:15-11:45	Session 3: Insights Chair: Sven Pullwitt
11:45-12:00	Break
12:00-13:30	Session 4: Monitoring Chair: Reinhardt Karnapke
13:30-13:45	Lunch

Session 1: Approaches

Lennart Lutz, Sven Pullwitt, Jan Schlichter and Lars Wolf

Delay Measured Time Synchronization Protocol with Skew Detection in RIOT OS

Randolf Rotta, Navya Sneha Chatharajupalli and Joerg Nolte

Congestion Control Mechanisms for B.A.T.M.A.N. Mesh Networks on IoT Devices

Przemysław Zielony and Krzysztof Piotrowski

tinyDSM-Based Modular Approach in Facilitating IoT Application Development and Maintenance

Session 2: Challenges

Billy Naumann, Randolf Rotta and Matthias Werner

Challenges using B.A.T.M.A.N. V regarding Robustness and Resilience in Wireless Sensor Networks

Kamil Woloszyn, Krzysztof Piotrowski and **Krzysztof Turchan**

Challenges in Developing Modular AI Applications

Krzysztof Turchan and Krzysztof Piotrowski

Analysis of Frameworks for Developing Artificial Intelligence Models on Low-Power Microcontrollers in Wireless Sensor Networks: Capabilities and Challenges

Session 3: Insights

Daniel Szafranski and Andreas Reinhardt

LoRaWAN Channel Usage and Collision Prediction based on Transmission Behavior Profiling

Lennart Kaiser, Thomas Hänel and Nils Aschenbruck

RF Soil Moisture Measurements Using Multi-Channel Low-Cost Sensor Nodes

Igor Koropiecki and Krzysztof Piotrowski

Compatibility Check of smartDSM with the IDSA Reference Architecture

Session 4: Monitoring

Leonhard Brüggemann and Nils Aschenbruck

Counting and Locating Breeding Birds using Acoustic Sensor Networks

Davis Rakhshan, Lucas Bublitz, Jan Lueken, Chingiz Seyidbayli, Andreas Reinhardt and Ulf Kulau

Potentials and Challenges of Ecoacoustics for Environmental Monitoring: A Small Field Study

Jakub Maj, **Przemysław Zielony** and Krzysztof Piotrowski

Modular Data-Centric Tool for Wireless Sensor Network Monitoring and Managing