DELTA Autumn Workshop 2020

12.-13.11.2020 VIRTUAL EVENT

Agenda

Thursday 12.11.

9:00 Opening (Jari Nurmi)

9:15 Keynote 1: Janne Peisa, Ericsson: Two roads to 6G

10:00 Session: Data Processing, Chair: Prof. Heidi Kuusniemi, U Vaasa

10:00 Pasi Koivumäki, Aalto: Statistical Model for Line-of-Sight Probability in Presence of Randomly Distributed Objects

10:20 Thileepan Paulraj, U Vaasa: A method to generate a database of source labelled environmental noise samples and quantify wind turbine noise in them

10:40 Luca Ferranti, U Vaasa: Confidence Estimation in Image-Based Localization

11:00 Break

11:20 Session: Healthcare Data Analytics, Chair: Prof. Simona Lohan, TAU

11:20 Ajinkya Gorad, Aalto: Respiratory Pattern Recognition from Low-Resolution Thermal Imaging

11:40 Justyna Skibińska, TAU: Parkinson's Disease Detection based on Changes of Emotions during Speech

12:00 Aditi Site, TAU: Healthcare data analysis using wearables/sensors

12:20 Lunch break

14:00 Keynote 2: Harri Holma, Nokia: 5G global technology update

14:40 Session: Wireless Communications, Chair: Prof. Riku Jäntti, Aalto

14:40 Xiyu Wang, Aalto: Coherent Multi-antenna Receiver for BPSK-modulated Ambient Backscatter Tags

15:00 End of day

Friday 13.11.

11:15 Day 2 opening

11:20 IoT and Radio Networks, Chair: Dr. Aleksandr Ometov, TAU

11:20 Rabia Qadar, TAU: Effects of Multipath Attenuation in the Optical Communication-Based Internet of Underwater Things

11:40 Ahsan Manzoor, U Oulu: Scavenger Hunt: Utilization of Blockchain and IoT for a location-based Game

12:00 Daria Alekseeva, TAU: Applying Machine Learning to LTE Traffic Prediction

12:20 Roman Glazkov, TAU: Distributed Control Algorithms for Wireless Networks with intermittent energy sources

12:40 Lunch break

14:00 Keynote 3: Pasi Tuominen, Wapice: AI in Industry, focus on EDGE based solutions

14:40 Miscellaneous topics, Chair: Prof. Jari Nurmi, TAU

14:40 Haseeb Mustafa, TAU: Operating the 10G Ethernet MAC

15:00 Yi Lu, TAU: Feasibility of Location-Aware Handover for Autonomous Vehicles in Industrial Multi-Radio Environments

15:20 End of workshop