

PROGRAM

PROGRAM OVERVIEW | DETAILED PROGRAM

Day 1 - 26.06.2018 (Tuesday)	
09h00 - 12h00	Registration
10h00 - 10h20	Opening session
10h20 - 11h30	Keynote - Justyna Musial (GSA) - "Innovations Around GALILEO and GNSS Receivers"
11h30 - 11h45	Coffee-break
11h45 - 12h45	Technical Session 1
12h45 - 14h00	Lunch
14h00 - 16h00	Technical Session 2
16h00 - 16h15	Coffee-break
16h15 - 17h45	Technical Session 3
19h00 -	Welcome Reception (ice breaker)
Day 2 - 27.06.2018 (Wednesday)	
09h00 - 12h00	Registration
09h30 - 11h00	Technical Session 4
11h00 - 11h15	Coffee-break
11h15 - 12h30	Keynote 2 - Jessica Garcia (Ficosa) - "Role and Challenges of GNSS for the Autonomous Driving"
12h30 - 14h00	Lunch
14h00 - 16h00	Technical Session 5
16h00 - 16h15	Coffee-break
16h15 - 17h25	Keynote 3 - Kari Leppanen (Huawei) - "The New Positioning Opportunities in 5G"
20h00 -	Gala Dinner
Day 3 - 28.06.2018 (Thursday)	
9h30 - 10h45	Keynote 4 - Fabien Müller (DLR) - "Where is your Guardian Angel? - Locating and Protecting Vulnerable Road Users"
10h45 - 11h00	Coffee-break
11h00 - 12h00	Technical Session 6
12h00 - 12h15	Closing session

DETAILED PROGRAM - TECHNICAL SESSIONS

Technical session 1 - Limits on Positioning

Chair: Kari Leppanen

On Trade-off Between 5G Positioning and mmWave Communication in a Multi-user Scenario

Dileep Kumar, Jani Saloranta, Giuseppe Destino, Antti Toli

AoA and ToA accuracy for antenna arrays in dense multipath channels

Thomas Wilding, Stefan Grebien, Ulrich Muhlmann, Klaus Witrisal

Technical session 2 - Fingerprinting

Chair: Joaquín Torres Sospedra

Mobile Station Localization Emitter in Urban NLoS using Multipath Ray Tracing Fingerprints and Machine Learning

Marcelo N. de Sousa, Reiner S. Thoma

Comparing 433 and 868 MHz Active RFID for Indoor Localization Using Multi-Wall Model

Rafael Berkvens, Frederik Smolders, Ben Bellekens, Michiel Aernouts, and Maarten Weyn

Device Diversity Effects on RF Fingerprinting Based 3D Positioning System

Technical session 3 - GNSS 1

Chair: Fabien Müller

Joint Tracking of Multiple Frequency Signals from the same GNSS satellite

Padma Bolla, Jari Nurmi, Dr. Jong-Hoon Won, Elena Simona Lohan

Robust initial position estimate of GEO/IGSO satellite from projection based processing of range observables

Anand S.K

Analytic Phase-screen Model for Fast Simulation of Ionospheric Scintillation in GNSS Signals

Fernando D. Nunes, Fernando M. G. Sousa, José M. V. Marçal

Technical session 4 - Localization Algorithms

Chair: Estefanía Muñoz Díaz

Minimizing Indoor Localization Errors for Non-Line-of-Sight Propagation

Mathias Pelka, Peter Bartmann, Swen Leugner, Horst Hellbruck

Localization and Tracking in mmWave Radio Networks using Beam-Based DoD Measurements

Elizaveta Rastorgueva-Foi, Mario Costa, Mike Koivisto, Kari Leppanen, Mikko Valkama

Direct Localisation using Ray-tracing and Least-Squares Support Vector Machines

Benny Chitambira, Simon Armour, Stephen Wales, Mark Beach

Technical session 5 - Industrial Internet

Chair: Helena Leppäkoski

Opportunities and Challenges in Industrial Internet of Things based on 5G positioning

Yi Lu, Philipp Richter, Elena Simona Lohan

Improved NLOS Propagation Models for Wireless Communication in mmWave bands

Krystof Zeman, Martin Stusek, Pavel Masek, Jiri Hosek

Direct Position Estimation from Wavefront Curvature with Single Antenna Array

Davide Dardari, Francesco Guidi

Applicability of 3GPP Indoor Hotspot Models to the Industrial Environments

Wenbo Wang, Elena Simona Lohan

Technical session 6 - GNSS 2

Chair: Jari Nurmi

Data-driven approach to satellite selection in multi-constellation GNSS receivers

Tero Soininen, Paula Syrjarinne, Simo Ali-Loytty, Christoph Schmid

GNSS Measurement Exclusion and Weighting with Dual Polarized Antenna: The FANTASTIC project

Daniel Egea-Roca, Antonio Tripiñana-Caballero, José A. López-Salcedo, Gonzalo Seco-Granados



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