26th IEEE International Conference on Intelligent Transportation Systems

ITSC 2023

Bilbao, Spain
September 24 - 28, 2023

Workshop program

2nd iLoc Workshop – High-integrity Localization for Automated Vehicles
Sunday 24th September 2023, 14h00–19h00

Sessions	Time	
Opening	14:00 – 14:30	Introduction of iLoc (Philippe Xu), presentation of SIVALab (Philippe Bonnifait) and i.c.sens (Steffen Schön)
Session 1	14:30 – 15:00	Dr. Scott Martin, Auburn University: Reliable RF Navigation in Degraded using Advanced Signal Processing
	15:00 – 15:30	Prof. Justin Dauwels, TU Delft: Perception error modelling for autonomous driving
	15:30 – 15:50	David Bétaille, Cyril Meurie, Yann Cocheril: Vision- and map-based non-line-of-sight satellites hybridized processing [workshop paper]
	15:50 – 16:10	Fabian Ruwisch, Steffen Schön: GNSS Feature Map Aided RTK Positioning in Urban Trenches [workshop paper]
	16:10 – 16:30	Jeldrik Axmann, Claus Brenner: Maximum Consensus based Localization and Protection Level Estimation using Synthetic LiDAR Range Images [workshop paper]
Coffee break and poster	16:30 – 17:30	- Chen Zhu, Omar Garcia Crespillo, Daniel Gerbeth, Young-Hee Lee, Maximilian Simonetti, Wenhan Hao: Towards Navigation System Integrity for Urban Air Mobility – Concept Design and Preliminary Validation - Zekun Zhang, Penghui Xu, Guohao Zhang, Li-Ta Hsu: A Deep Learning Approach for GNSS-based Environment Detection in Urban Navigation - Anat Schaper, Steffen Schön: Multi-Agent Collaboration for High-Integrity Urban Navigation - Maxime Noizet, Philippe Xu, Philippe Bonnifait: Multi-sensor localization integrity for autonomous navigation of intelligent vehicles - Yunshuang Yuan, Hao Cheng, Michael Ying Yang, Monika Sester: Generating Evidential BEV Maps in Continuous Driving Space
Session 2	17:30 – 18:00	Enrique Dominguez, GMV: Multi-Sensor High Accuracy and Integrity Navigation in ERASMO Intelligent Vehicle
	18:00 – 18:30	Bernd Kröper, KIT: Localization of Railway Vehicles using the Ferromagnetic Fingerprint of Rails
	18:30 – 18:50	Elwan Héry, Philippe Xu, Philippe Bonnifait: A study of different observation models for cooperative localization in platoons [workshop paper]
Closing	18:50 – 19:00	