

19th International Workshop on “Dependable Smart Embedded and Cyber-Physical Systems and Systems-of-Systems” at SAFECOMP 2024 (DECSoS '24)

Florence, Italy, Sept. 17, 2024

Co-hosted by EWICS TC7, ERCIM and the ECSEL/Chips-JU projects AI4CSM, AIMS5.0, A-IQ Ready, PowerizeD, ShapeFuture, the Horizon Europe Support Action INSTAR and the Austrian national (FFG) project ADEX

Erwin Schoitsch, AIT Austrian Institute of Technology
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Final Programme

Welcome and Introduction

09:00 – 09:30 **DECSoS Workshop: European Research and Innovation Projects in the Field of Cyber-Physical Systems and Systems-of-Systems (Selective Overview on some EC Research projects);** by *Erwin Schoitsch and Amund Skavhaug*.

Session 1: System-of-Systems Engineering

09:30 – 10:00 **A Systems Viewpoint on the Integration of Subsystems Developed with Heterogeneous Safety Standards (IEC 63187),** by *James Inge and Katia Potiron*.

10:00 – 10:30 Coffee Break

Session 2: Autonomous Vehicles and Services

10:30 – 11:00 **Intelligent Decision-Making in Lane Detection Systems Featuring Dynamic Framework for Autonomous Vehicles,** by *Romana Blazevic, Fynn Luca Maass, Omar Veledar, and Georg Macher*.

11:00 – 11:30 **Security and Safety in Urban Environments: Evaluating Threats and Risks of Autonomous Last-Mile Delivery Robots,** by *Christina Kolb and Lin Xie*.

11:30 – 12:00 **Safe Road-Crossing by Autonomous Wheelchairs: A Novel Dataset and its Evaluation,** by *Carlo Grigioni, Franca Corradini, Alessandro Antonucci, Jérôme Guzzi, and Francesco Flammini*. (REXASI-PRO Project)

12:00 – 13:30 Lunch Break

Session 3: Cybersecurity and Safety of complex Systems (of Systems)

13:30 – 14:00 **Automating an Integrated Model-Driven Approach to Analysing the Impact of Cyber-attacks on Safety,** by *Ehsan Poorhadi and Elena Troubitsyna*.

14:00 – 14:30 **Securing Web Access: PUF-driven Two-Factor Authentication for Enhanced Protection,** by *Chandranshu Gupta and Gaurav Varshney*.

14:30 – 15:00 **Enhancing Tunnel Safety with Artery V2X Simulation for Real-Time Risk Assessment,** by *Abdelkader Magdy Shaaban, Bernhard Klampfer, Martin Latzenhofer, Arndt Bonitz, Christoph Schmittner, and Harald Kammerer*. (KITT Project)

15:00 – 15:30 **Detecting and Mitigating Errors in Neural Networks,** by *Uwe Becker*.

15:30 – 16:00 Closure and Coffee Break