16th International Workshop on “Dependable Smart Embedded and Cyber-Physical Systems and Systems-of-Systems” at SAFECOMP 2021 (DECSoS ’21)

The Workshop will be VIRTUAL only, details will follow for registered persons, Sept. 7, 2021

Co-hosted by the ARTEMIS/ECSEL projects AFarCloud, AI4CSM, SECREDAS, iDev40, ARROWHEAD-Tools and Comp4Drones

Erwin Schoitsch, AIT Austrian Institute of Technology
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Final Programme

Welcome and Introduction

09:00 – 09:30 ERCIM/EWICS/ARTEMIS DECSoS Workshop: European Research and Innovation Projects in the Field of Cyber-Physical Systems and Systems-of-Systems (Selective Overview); by Erwin Schoitsch and Amund Skavhaug.

Session 1: Dependable Autonomous Driving Systems


10:00 – 10:30 Rule-Based Threat Analysis and Mitigation for the Automotive Domain, by Abdelkader Magdy Shaaban, Stefan Jaksic, Omar Veledar, Thomas Mauthner, Edin Arnautovic and Christoph Schmittner.

10:30 – 11:00 Coffee Break

Session 2: SECREDAS Session I: Safety/Security/Privacy Systems Co-Engineering


11:30 – 12:00 Structured traceability of security and privacy principles for designing safe automated systems, by Behnam Asadi Khashooei, Alexandr Vasenev and Hasan Alper Kocademir.

12:00 – 12:30 Synchronisation of an Automotive Multi-Concern Development Process, by Martin Skoglund, Fredrik Warg, Hans Hansson and Sasikumar Punnekkat.

12:30 – 13:30 Lunch Break

Session 3: SECREDAS Session II: Critical System Development

13:30 – 14:00 Offline Access to a Vehicle via PKI-based Authentication, by Jakub Arm, Petr Fiedler and Ondrej Bastan.

14:00 – 14:30 HEIFU - Hexa Exterior Intelligent Flying Unit, by Dário Pedro, Pedro Lousã, Álvaro Ramos, João Matos-Carvalho, Fábio Azevedo and Luis Campos.

14:30 – 15:00 Coffee Break


15:30 – 16:00 Formal modelling of the impact of cyberattacks on railway safety, by Ehsan Poorhadi, Elena Troubitsyna and György Dán.

16:00 – 16:30 LoRaWAN with HSM as a Security Improvement for Agriculture Applications – Evaluation, by Reinhard Kloibhofer, Erwin Kristen and Afshin Ameri E..

16:30 – 17:00 Round-Up and Closure