

# DECSoS 2015: EWICS/ERCIM/ARTEMIS Dependable Cyber-Physical Systems and Systems-of-Systems Workshop Programme

September 22, 2015

Delft, The Netherlands

Tuesday, 22 <sup>nd</sup> September 2015	
08:00 - 09:00	Registration
	<b>Session 1. Introduction, and Safety &amp; Cyber – Security Co-assessment</b>
09:00 – 09:30	<b>Introduction to the ERCIM/EWICS/ARTEMIS DECSoS Workshop: European Research and Innovation Initiatives in the Area of Cyber-Physical Systems and Systems-of-Systems (Selective Overview)</b> <i>E. Schoitsch, and A. Skavhaug</i>
09:30 – 10:00	<b>Qualitative and Quantitative Analysis of CFTs Taking Security Causes into Account</b> <i>Max Steiner, and Peter Liggesmeyer</i>
10:00 – 10:30	<b>Sequential Logic for State/Event Fault Trees: A Methodology to Support the Failure Modeling of Cyber Physical Systems</b> <i>Michael Roth, and Peter Liggesmeyer</i>
10:30 – 11:00	<b>Towards a Framework for Alignment between Automotive Safety and Security Standards</b> <i>Christoph Schmittner, and Zhendong Ma</i>
11:00 – 11:30	Coffee/Tea Break
	<b>Session 2: Robotics and Motion Control</b>
11:30 - 12:00	<b>Reconfiguration Testing for Cooperating Autonomous Agents</b> <i>Francesca Saglietti, Stefan Winzinger, and Raimar Lill</i>
12:00 - 12:30	<b>A Motion Certification Concept to Evaluate Operational Safety and Optimizing Operating Parameters at Runtime</b> <i>Sebastian Müller, and Peter Liggesmeyer</i>
12:30 - 13:00	<b>Approach for Demonstrating Safety for a Collision Avoidance System</b> <i>Thomas Gruber, and Christian Zinner</i>
13:00 – 14:00	Lunch Break
	<b>Session 3: Modelling, Testing and Verification</b>
14:00 - 14:30	<b>Contract Modeling and Verification with FormalSpecs Verifier Tool-Suite - Application to Ansaldo STS Rapid Transit Metro System Use Case</b> <i>Marco Carloni, Orlando Ferrante, Alberto Ferrari, Gianpaolo Massaroli, Antonio Orazzo, and Luigi Velardi</i>
14:30 - 15:00	<b>Towards Verification of Multicore Motor-drive Controllers in Aerospace</b> <i>Stylianios Basagiannis, and Francisco Gonzalez-Espin</i>
15:00 - 15:30	<b>FlexRay Robustness Testing Contributing to Automated Safety Certification</b> <i>Erwin Kristen, and Egbert Althammer</i>
15:30 – 16:00	Coffee/Tea Break
	<b>Session 4: Dependability and Scalability</b>
16:00 – 16:30	<b>Towards Perfectly Scalable Real-Time Systems</b> <i>Peter Priller, Werner Gruber, Niklas Olberding, and Dietmar Peinsipp</i>
16:30 – 17:00	<b>Dependable Cyber-Physical Systems with Redundant Consumer Single-Board Linux Computers</b> <i>Øyvind Netland, and Amund Skavhaug</i>
17:00 – 17:30	Closure