

ERCIM/EWICS/Embedded (Cyber-physical) Systems Workshop (Program)

Safecomp 2012, Magdeburg, Germany, Tuesday Sept. 25th, 9:00 – 17:00

Co-hosted by ARTEMIS projects R3-COP, MBAT and SafeCer

**Please register for workshop for logistics reasons, although participation is free of charge!
(SAFECOMP registration required)**

Registration: via <http://www-e.uni-magdeburg.de/safecomp>

9:00 – 9:30 Introduction

ERCIM, EWICS, ARTEMIS: Embedded Systems Safety, Security and European Strategy

By organizers Erwin Schoitsch (AIT Austrian Institute of Technology), Amund Skavhaug (NTNU, Norway)

9:30 – 10:30 Session “Dependable Embedded Systems Applications”

A Systematic Elaboration of Safety Requirements in the Avionic Domain

Antoaneta Kondeva, Martin Wassmuth and Andreas Mitschke (EADS Innovation Works, Germany)

Towards composable robotics: the R3-COP Knowledge-Base driven Technology Platform

E. Schoitsch, W. Herzner (AIT, Austria), C. Alonso-Montes (Tecnalia, Spain),
P. Chmelar (TU Brno, Czech Republic) and Lars Dalgaard (DTI, Denmark)

10:30 – 11:00 Coffee Break

11:00 – 12:30 Session “Secure Systems –Systems Security”

On the Design of Secure Time-Triggered Systems

Florian Skopik, Thomas Bleier (AIT, Austria), Albert Treytl, Bernd Hirschler (Austrian Academy of Sciences),
Armin Wasicek, Christian El-Salloum (TU Vienna, Austria), Arjan Geven and Andreas Eckel (TTTech,
Austria)

Dependable and Secure Embedded Node Demonstrator

Przemysław Osocha¹, Fabio Giovagnini (SESM, Italy) and João Carlos Cunha (CISUC Coimbra, Portugal)

The Cyber-Physical Attacker

Roberto Vigo (DTU Technical University of Denmark)

12:30 – 13:30 Lunch Break

13:30 – 15:00 Session “Validation, Verification and Qualification”

Parallel NuSMV: a NuSMV extension for the verification of complex embedded systems

Orlando Ferrante, Luca Benvenuti, Leonardo Mangeruca, Christos Sofronis and Alberto Ferrari (ALES S.r.l.,
Italy)

Towards the Automated Qualification of Tool Chain Design

Fredrik Asplund, Matthias Biehl and Frederic Loiret (KTH, Sweden)

A Framework for Simulation Based Design, Validation and Performance Analysis of Electronic Control Systems

Alexander Hanzlik and Erwin Kristen (AIT, Austria)

15:00 – 15:30 Coffee Break

15:30 – 16:30 Session “Systems Safety and Trust”

Compiling for Time Predictability

Peter Puschner (TU Vienna, Austria), Raimund Kirner (University of Hertfordshire, UK), Benedikt Huber and
Daniel Prokesch (TU Vienna, Austria)

Supporting Assurance by Evidence-based Argument Services

Janusz Górski, Aleksander Jarzębowicz, Jakub Miler, Michał Witkowicz, Jakub Czyżnikiewicz and Patryk Jar
(Gdansk University of Technology, Poland)

16:30 – 17:00 Session “Ambient Assisted Living”

Addressing the Needs of an Aging Population: An experiment for Monitoring Behaviour in a Domestic Environment

Marte E.B. Skjønfsjell, Aslak R. Normann, Amund Skavhaug (NTNU, Norway) and Dag Sjong (Norsk
Automatisering, Norway)