

DECOS/ERCIM Workshop 2007 on Dependable Embedded Systems

“Dependable Embedded Systems – Challenges, Impact, Solutions, Examples, Professional and Academic Education and Training”

Chairs Erwin Schoitsch (Austrian Research Centers – ARC), Amund Skavhaug (NTNU Trondheim),

at SAFECOMP 2007, Nuremberg, Germany, Sept.18, 2007 (www.safecomp.org)

Location: University of Erlangen-Nuremberg, WiSo, Lange Gasse 20, 90403 Nuremberg

Final Programme

Introduction (9:00 – 9:30):

A. Skavhaug, E. Schoitsch: Welcome – EWICS/SAFECOMP, DECOS and ERCIM

Dependable Embedded Systems Theory and Research I (9:30-11:00)

Maximilian Rosenblattl, Andreas Wolf, and Bernhard Leiner (TTTech Computertechnik, Vienna) "Feature and Performance Analysis and Enhancements of the DECOS Core OS"

András Balogh, András Pataricza, Balázs Polgár, György Csertán, M. Magyar (Budapest University of Technology and Economics) "Model driven design, verification and validation and its impact on design quality"

Rupert Schlick, Wolfgang Herzner (Austrian Research Centers – ARC, Vienna), Alain Le Guennec (Estere Technologies) "Application Model Verification for Distributed (Time Triggered) Systems", with demo

Coffee break 11:00 – 11:30

Embedded Systems Security and Trust (11:30 – 12:30)

Jakub Miler, Janusz Gorski (TU Gdansk, Poland) "Trust-IT – a Method and Tools for justifying Trust in IT Systems and Infrastructure"

Andreas Wolf, Maximilian Rosenblattl, and Bernhard Leiner (TTTech Vienna) "Security and Safety Considerations for the DECOS Core OS"

Lunch Break 12:30 – 14:00

Smart Systems Applications I (Industry) (14:00 – 15:00)

Geir Mathisen (SINTEF, Norway), Amund Skavhaug (NTNU, Norway) "Experiences from design and implementation of a low-cost sensor network for applications with high reliability requirements and a large number of nodes"

Reinhard Kloibhofer (ARC, Vienna) „Watch-Over – Co-operative Smart Technologies to Improve Road Safety for Vulnerable Road Users (Pedestrians, Cyclists, ...)“

Coffee Break (15:00 – 15:30)

Smart Systems Education and Training (15:30 – 16:00)

Amund Skavhaug (NTNU, Norway) "CyberGoose - experiences with design and implementation of an Autonomous Unmanned Aerial Vehicle as a student learning-task" (with video clips)

Co-operative Systems for Road Safety – a European Challenge (1) (16:00 – 16:30)

M. McDonald, J. Piao (University of Southampton, UK), "Co-operative Systems in Transport"

Co-operative Systems for Road Safety – COOPERS Supplier Panel (16:30 – 18:00)

Erwin Schoitsch (ARC, Vienna): Introduction “**Automotive Visions – Road Safety of the Future**”
(with short video, and COOPERS supplier statements)

Lars Holstein (FAV Berlin) “COOPERS – Co-operative Systems for Intelligent Road Safety: Overview”

Zbigniew Pawelski, Tomasz Palczynski (TU Lodz, Poland) “Scientific GPS-class RTK-20 connected with gyro (SPAN system) and odometer (Correxit) as a best way to describe real velocity and position of car at COOPERS components tests”

Gino Franco, Claudio Griglione (SWARCO, Torino, Italy) „Developing Road Side Units in COOPERS“
Thomas Gruber (ARC, Vienna) et. al.) Short Statements on COOPERS Contributions

Chairpersons: Erwin Schoitsch, Amund Skavhaug