CARS@EDCC2015

WORKSHOP PROGRAM

8h30 : Registration and welcome address

9h00 : Keynote speech

AUTOSAR the next generation – The Adaptive Platform

Simon Fürst (BMW/Autosar)

10 :00 : Break

10h30 : Session 1 – Development process and safety

How to Reach Complete Safety Requirement Refinement for Autonomous Vehicles
Carl Bergenhem, Rolf Johansson, Stig Ursing, Jonas Nilsson, Martin Tömgren, (Qamcom R & T AB, SP Technical Research Institute of Sweden, Semcon, Volvo Car Corporation, KTH – Sweden)

Automotive Functional Safety and Robustness Never the Twain or Hand in Glove?
Roger Rivett, Ibrahim Habli, Tim Kelly (Jaguar Land Rover, University of York – UK)

Using Model-based Development for ISO26262 aligned HSI Definition
Georg Macher, Harald Sporer, Eric Armengaud, Christian Kreiner (Graz University of Technology & AVL – Austria)

The Importance of Active Choices in Hazard Analysis and Risk Assessment
Rolf Johansson (SP – Sweden)

12 :00 : Lunch Break

13h30 : Session 2 – Fault tolerant systems

Using formal methods for the development of safe application-specific RTOS for automotive systems
Toussaint Gautier Tigori Kabland, Jean-Luc Béchennec, Sébastien Faucou, Olivier Henri Roux (IRCCyN – France)

RACE RTE: A Runtime Environment for Robust Fault-Tolerant Vehicle Functions

Towards Adaptive Fault Tolerance: From a Component-Based Approach to ROS
Michael Lauer, Matthieu Amy, William Excoffon, Matthieu Roy, Miruna Stoicescu (LAAS-CNRS – France)

Comparing Permanent and Transient Fault Tolerance of Multiple-core based Dependable ECUs
Masashi Imai and Tomohiro Yoneda (Hirosaki University, National Institute of Informatics – Japan)
15:00 : Break

15h30 : Session 3 – Evolving & Autonomous systems  
Session Chair: Mario Trapp (IESE)

Program Analysis on Evolving Software
Daniel Kästner and Jan Pohland. (AbsInt GmbH, Germany)

The Notion of Controllability in an autonomous vehicle context
Helen Monkhouse, Ibrahim Habli and John Mcdermid. (Protean Electric Ltd, University of York – UK)

An application software download concept for safety-critical embedded platforms
Christoph Dropmann, Drausio Linardi Rossi and Bastian Zimmer. (Fraunhofer IESE – Germany)

Some Open Safety Issues in Vehicular Networks
Gérard Lelann (INRIA – France)

17:00 : Mini Break

17h15 : Session 4 – Security & documentation  
Session Chair: Matthieu Roy (LAAS)

Security Analysis of Linux Kernel Features for Embedded Software Systems in Vehicles
Ludwig Thomeczek (HAW Landshut, Germany)

Reconciling the ISO 26262-compliant and the agile documentation management in the Swedish context
Barbara Gallina and Mattias Nyberg (Mälardalen University, Scania CV – Sweden)

18h00 : THE END

Time for speech 15 min + 5 min for questions.