



Development Platform for Safe and Efficient Drive

DESERVE Special Session at SAMOS Conference
"Embedded Driver Assistance Systems –
Mid-term Results of the DESERVE Artemis-JU-project"
Samos Island, Greece in 15th of July 2014

DESERVE is a research project, started on September 2012, will finish on August 2015. The project aims at designing and developing a Tool Platform for embedded Advanced Driver Assistance Systems (ADAS) to exploit the benefits of cross-domain software reuse, standardised interfaces, and easy and safety-compliant integration of heterogeneous modules to cope with expected increase of functions complexity and the impellent need of cost reduction.

The DESERVE project organizes the workshop during the International Conference on Embedded Computer Systems: Architectures, MOdelling and Simulation (SAMOS XIV). The major achievements will be presented after 1,5 years project execution. The presentations will focus on key issues of the projects and a multi-perspective debate is expected, enriching an already diverse and exciting agenda. The following presentations will be given:

- 1. The DESERVE project: Towards future ADAS functions – Matti Kutila (VTT)
2. A Comprehensive ASIC/FPGA Prototyping Environment to Explore Embedded Processing Systems for Advanced Driver Assistance Applications – Florian Giesemann (Leibniz Universität Hannover)
3. Development and design of a generic platform for ADAS application - Joshué Pérez (INRIA)
4. Vehicle-Hardware-In-The-Loop System for ADAS Prototyping and Validation – Clément Galko (IRSEEM)
5. Instruction Set Extension for an ASIP based SIFT Feature Extraction - Nico Mentzer (Leibniz Universität Hannover)
6. Definition of an embedded driver model for driving behavior prediction within the DESERVE platform – Jens Klimke (RWTH Aachen University)
7. Massive parallel computing challenges for a driver assistant prototype framework – Frank Meinel (Robert Bosch GmbH)

The expected participants include international technology experts, telecommunication industry representatives, vehicle and device manufacturers, service providers, infrastructure operators, end users, industry and research representatives as well as the project partners.

The workshop is organized within the Samos conference. Therefore, only registered attendees to the conference may be admitted. General information about the SAMOS conference can be found on the conference website: http://samos-conference.com/. The full articles will be available in the conference proceedings and IEEE Xplore.

More information can be found on the project website: http://www.deserve-project.eu/

Coordinator:

Matti Kutila
VTT Technical Research Centre of Finland
Tel. + 358 40 820 8334
Email: matti.kutila@vtt.fi

Dissemination Manager:

Serena Fruttaldo
ICOOR
Tel. + 39 0522 522663
Email: serena.fruttaldo@icoor.it

