14. Workshop
Automotive Software Engineering (ASE)

27 September 2016
Klagenfurt, Austria
http://www.iti.tugraz.at/ase2016

The 14th Workshop "Automotive Software Engineering" addresses methods, techniques, and tools for software development for modern vehicles. Advanced driver assistance systems (ADAS), new operating concepts (HMI), and fully autonomous driving lead to a high demand of flexible interconnectivity among vehicles, infrastructure, and the users' mobile devices. Thus, embedded automotive software becomes increasingly complex and the development processes require more sophisticated tools. Apart, cutting-edge concepts for customized manufacturing and configuration of vehicles (Industry 4.0) demand for dependable and long-term interaction channels between ECUs and production environments.

Goals and Audience. The workshop discusses challenges and possible solutions for automotive software engineering on the way towards smart mobility. Contributions from all fields of software development for privately or commercially used vehicles are welcome. The workshop aims at researchers, developers, and users from the automotive industry as well as at scientists from research institutes and universities, which are related to automotive software engineering.

Topics. Both theoretical and practical contributions are welcome. Topics include, but are not limited to:

- Development processes, architectures, interfaces and protocols for automotive software
- Dependable system software
- ADAS and autonomous driving functions
- Vehicular networks and Car2X
- Variants and configuration management
- Evolution and updates of software at runtime
- Apps and HMI concepts
- E-Mobility
- Individualization of vehicles (Industrie 4.0)
- Big data for intelligent vehicles
- Security and safety aspects
- Integration of advanced environmental sensors
- ...

Submissions. Submissions for the workshop will be peer-reviewed by the program committee. Accepted papers will be published in the GI series "Lecture Notes in Informatics" (LNI). Details for submissions (8-12 pages) can be found at the website of the workshop. For each accepted contribution the participation of at least one author at the workshop is mandatory.

Participation. Participation in the workshop requires a registration for INFORMATIK 2016.

Organization. The Workshop is organized by the Embedded Automotive Systems Group (EAS) at Graz University of Technology in coordination with the GI Special Interest Group on Automotive Software Engineering (ASE), and our industry partner:
EAS: Prof. Dr. Marcel Baunach (baunach@tugraz.at)
ASE: http://fg-ase.gi.de
Industry Partner:
AVL List GmbH, Graz (www.avl.com)

Important Dates.
- Submission deadline: 02 May 2016
- Notification: 01 June 2016
- Camera-ready version: 19 June 2016