4th Workshop on Hybrid Autonomous Systems (HAS) 2014
April 12-13th, 2014 - Grenoble, France

Call for Contributions

A workshop in ETAPS 2014: The European Joint Conferences on Theory and Practice of Software (ETAPS), which is the primary European forum for academic and industrial researchers working on topics relating to Software Science.

The interest on autonomous systems is increasing both in industry and academia. Such systems must operate with limited human intervention in a changing environment and must be able to compensate for significant system failures without external intervention. The most appropriate models of autonomous systems can be found in the class of hybrid systems (which study continuous-state dynamic processes via discrete-state controllers) that interact with their environment. This workshop brings together researchers interested in all aspects of autonomy and resilience of hybrid systems.

Contributions are invited in all areas of hybrid systems including but not limited to:
- Formal methods for autonomous systems;
- Probabilistic and stochastic hybrid systems;
- Case studies, application reports and tools
- Concurrent models of hybrid systems: hybrid Petri nets, hybrid process algebra
- Applications of Markov decision processes to hybrid systems;
- Multi-agent hybrid systems;
- Adaptive behavior in biological and technical systems;
- Path planning and scheduling;
- Massive parallelism;
- Extensions of hybrid automata;
- Diagnosis, monitoring, state estimation;
- Uncertainty modeling and probabilistic reasoning;
- Probabilistic logics and model checking;
- Learning and adaptive behaviors

Important dates:
Initial submission deadline: December 1st, 2013
Notification to authors: January 15th, 2014
Final submission deadline: February 10th, 2014

Organizers:
Manuela Bujorianu (Warwick University, UK)
L-M.Bujorianu@warwick.ac.uk
Rafael Wisniewski (Aalborg University, Denmark)
raf@es.aau.dk

Website:
http://kom.aau.dk/project/HAS2014/