

NET-CPS 2016

International Symposium on Networked Cyber-Physical Systems

September 19-20, 2016

jointly organized by
Institute for Advanced Study (TU Munich) and
Institute for Systems Research (University of Maryland)



Cyber-physical systems (CPS) are technological systems where physical and cyber components are tightly integrated. Networked CPS (Net-CPS) emphasize that additional critical challenges emerge when such CPS operate in a networked setting.

Examples abound including interconnected and interacting sociotechnical systems, heterogeneous energy systems, connected cars, smart transportation, social networks over the Internet, collaborating robots & humans, and others.

Topics at intersection of systems, control & computer science

The objective of the symposium is to provide a forum for presenting state of the art work and describe challenges in this emerging and critical area. Topics of interest include



- ✧ Modeling & foundations of Net-CPS
- ✧ Architectures and design
- ✧ Validation and verification

- ✧ Reliability and robustness
- ✧ Security, privacy and trust
- ✧ Collaborative autonomy

Program

Internationally renowned experts give 3 plenaries and 12 invited lectures; additionally there are two panel sessions and two poster sessions. The plenary speakers and invited lecturers are

- ✧ Karl Henrik Johansson (KTH, Sweden)
- ✧ Manfred Broy (TU Munich, Germany)
- ✧ Marija Ilic (Carnegie Mellon University, USA)
- ✧ Jean-Yves Le Boudec (EPFL, Switzerland)
- ✧ Antonello Monti (RWTH Aachen Univ)
- ✧ Marta Kwiatkowska (Univ Oxford, UK)
- ✧ Klaus Wehrle (RWTH Aachen, Germany)
- ✧ Matthias Althoff (TU Munich, Germany)

- ✧ Werner Damm (Univ Oldenburg, Germany)
- ✧ Calin Belta (Boston University, USA)
- ✧ Markos Papageorgiou (TU Crete, Greece)
- ✧ Tariq Samad (Univ Minnesota, USA)
- ✧ Ming Cao (Univ Groningen, Netherlands)
- ✧ Daniel Quevedo (Univ Paderborn, Germany)
- ✧ Samarjit Chakraborty (TU Munich, Germany)

For more information and registration (required) see
<http://www.tum-ias.de/netcps2016/home.html>



Organizers: John Baras (Univ Maryland, TUM IAS Hans-Fischer Senior Fellow), Sandra Hirche (TUM)

Sponsored by:



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