IEEE SUTC 2010

2010 IEEE Intl. Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing
June 7-9, 2010, Hyatt Regency Newport Beach, Newport Beach, California, USA
http://sutc2010.eecs.uci.edu

The availability of small, low-cost, and low-power sensors, radios, and microcontrollers has triggered a huge wave of research in networked embedded sensing systems. As a result, different research communities have emerged that work on related aspects, but have slightly different foci. A focus of the sensor network community is on energy-efficient systems and networking solutions. While these aspects are also fundamental for ubiquitous computing, a focus of the latter community is on user interaction. The currently emerging cyber-physical systems community emphasizes the integration of actuation and control. Despite these differences, the realization of the above visions involves a common fundamental challenge: The need for trustworthy computing solutions to deliver secure, private, and reliable computing and communication services.

The aim of the IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC 2010) is to bring together the above communities to exchange latest results, to join efforts in solving the common challenges, but also to contrast the developments in the different communities. To support this goal, the conference will feature several (serial) tracks devoted to sensor networks, ubiquitous computing, and cyber-physical systems, as well as tracks devoted to common themes such as pervasive services and data management, embedded networking, and trustworthy computing. In addition, the conference features invited talks and panel discussions.

Topics of Interest
Submissions of high quality papers describing mature results or on-going work are invited. Topics for submission include, but are not limited to the following aspects of sensor networks, ubiquitous computing, cyber-physical systems, and trustworthy computing:

- Applications (novel use cases, deployment experience, …
- Algorithms and Protocols (topology, coverage, routing, timesync, distributed coordination, …
- Data Management and Processing (gathering, storage, fusion, dissemination, …
- Deployment, Testing, and Debugging
- Design and Programming Methodologies
- Distributed Sensing, Actuation, and Control
- Energy management
- Embedded processors, sensors, and actuators
- Management aspects (configuration, adaptation, healing, …
- Mobility, Location, and Context
- Modeling and Performance Evaluation (simulation, complexity analysis, user studies, …
- Operating Systems, Services, and Middleware
- Privacy
- QoS aspects
- Reliability
- Security (authentication, access control, intrusion detection and tolerance, …
- Social Issues
- System and Network Architectures
- Trust (establishment, negotiation, management, …
- User Interface Technologies
- Wireless Communication and Networks (ad hoc networks, personal area networks, …

Schedule
October 15, 2009: Submission of Workshop, Panel, Demo and Tutorial proposals due
October 25, 2009: Notification of acceptance of Workshop, Panel, Demo and Tutorial proposals
November 30, 2009: Paper registration due
December 6, 2009: Paper submission due
January 31, 2010: Notification of paper acceptance
March 21, 2010: Camera-Ready copy of accepted papers due

Organization
General Co-Chairs
Max Mühlhäuser, Darmstadt University, Germany
Kinji Mori, Tokyo Institute of Technology, Japan
Phillip Sheu, University of California, Irvine, USA

Technical Program Co-Chairs
Ian Harris, University of California, Irvine, USA
Kay Römer, ETH Zurich, Switzerland
Negar Kiyavash, UIUC, USA

Technical Program Vice Chairs
Xue Liu, McGill University, Canada (Cyber-Physical Systems)
Andreas Terzis, Johns Hopkins University, USA (Sensor Networks)
Michael Beigl, Technische Universität Braunschweig, Germany (Ubiquitous Computing)
Angelos Stavrou, George Mason University, USA (Trust, Privacy, Security)
Manfred Hauswirth and **Marco Zuniga**, National University of Ireland, Galway (Pervasive Services & Data Management)
Ryan Kastner, University of California San Diego, USA (Embedded Wireless Communication)