

Panel 1

Trustworthiness in Pervasive and Ubiquitous Environment

Panel Moderator: Taieb Znati

University of Pittsburgh

Panelists

Roy H. Campbell

The University of Illinois, Urbana Champaign

Fabio Martinelli

Istituto di Informatica e Telematica – IIT, Pisa, Italy

Mani Srivastava

University of California, Los Angeles

David Wagner

University of California, Berkeley

Sri Kumar

DARPA

The technology needed to realize the goal of fully pervasive and mobile computing is rapidly coming together. Its emergence represents an unprecedented opportunity to expand the power of the Internet beyond traditional computing devices, enabling a world of smart spaces and smart appliances providing often invisible support for a variety of context-aware services with tremendous environmental and social benefits. Recent advances in wireless sensor technologies, coupled with the increasing capabilities of mobile and embedded computing devices, has triggered a rapid surge of interest in a variety of critical services, ranging from pervasive healthcare and habitat monitoring to critical infrastructure protection and object tracking. It is clear, however, that the need for trust in the decision making ability of the pervasive system is paramount for its success. The objective of this panel is to address issues related to trust in pervasive computing environments. In this context, trust goes beyond traditional security concerns, namely privacy, confidentiality, information integrity, service availability, authorization and authentication. The focus will be on gaining better understanding of the notion of trust in pervasive computing, understanding the psycho-sociological aspects of trust, and discussing frameworks and models for trust establishment, dynamics and evolution. Panelists from leading technology companies and research institutions will present brief talks centering on different aspects of the pervasive healthcare infrastructure. The audience will then be encouraged to ask questions and present short opinions.