

**1st International ICST Conference on Sensor Applications,
Experimentation and Logistics**

SENSAPPEAL 2009

September 25th 2009, Athens, Greece

Conference Program

9h30: Registration – Welcome

Session I: Novel Applications of WSN

Session Chair: Roland Cheng

10h00:

Theofanis P. Lambrou and Christos G. Panayiotou

University of Cyprus, Nicosia, Cyprus

Christos C. Anastasiou

Frederick University Cyprus, Nicosia, Cyprus

“A Nephelometric Turbidity System for Monitoring Residential Drinking Water Quality”

10h30:

Roland Cheng, Wendi Heinzelman, Melissa Sturge-Apple, and Zeljko Ignjatovic

University of Rochester, USA

“Deployment of a Wireless Ultrasonic Sensor Array for Psychological Monitoring”

11h00: Coffee Break

Session II: Applications of WSN in Environmental Monitoring

Session Chair: Elias S. Manolakos

11h30:

Juan A. López, Fulgencio Soto, Andrés Iborra, Pedro Sánchez, and Juan Suardíaz

Universidad Politécnica de Cartagena, Spain

“Design and implementation of a Wireless Sensor Network for Precision Horticulture”

12h00:

Alireza Khadivi and Martin Hasler

Ecolé Polytechnique Fédérale de Lausanne, Switzerland

“Fire Detection and Localization Using Wireless Sensor Networks”

12h30:

Elias S. Manolakos, Evangelos Logaras, and Fotis Paschos

National and Kapodistrian University of Athens, Greece

“Wireless Sensor Network Application for Fire Hazard Detection and Monitoring”

13h00: Lunch

14h00: Keynote

Prof. Gregory S. Yovanof

Athens Information Technology

Title: Wireless Innovations as Enablers for Complex & Dynamic Large Artificial Systems

Session III: Testbeds and research projects

Session Chair: Toula Onoufriou

15h00:

Ioannis Chatzigiannakis, Christos Koninis, and Georgios Mylonas

Computer Technology Institute and University of Patras, Greece

Stefan Fischer and Dennis Pfisterer

University of Lübeck and Institute of Telematics, Germany

“WISEBED: an Open Large-Scale Wireless Sensor Network Testbed”

15h30:

Invited paper

Toula Onoufriou

Cyprus University of Technology, Cyprus

Anthony Constantinides

Imperial College, London, UK

Anastasis Kounoudes

Signalgenerix, Cyprus

Antonis Kalis

Centro Tecnológico Telecomunicaciones Cataluña, Spain and Athens Information Technology, Greece

“SmartEN: A Marie Curie Research Framework for Wireless Sensor Networks in Smart Management of the Human Environment”

16h00: Coffee Break

Session IV: Application Enablers

Session Chair: Antonis Kalis

16h30:

Stephen Brown

NUI Maynooth, Ireland

Cormac J. Sreenan

University College Cork, Ireland

“Software Update Recovery for Wireless Sensor Networks”

17h00:

Anthony Schoofs,

CLARITY: Centre for Sensor Web Technologies, Dublin, Ireland

Marc Aoun and Peter van der Stok,

Philips Research, Eindhoven, The Netherlands

Julien Catalano,
Enensys Technologies, Rennes, France
Ramon Serna Oliver and Gerhard Fohler
University of Kaiserslautern, Germany
“A Framework for Time-Controlled and Portable WSN Applications”

17h30:

Daniel van den Akker, Kurt Smolderen, Peter De Cleyn, Bart Braem,
and Chris Blondia
University of Antwerp - IBBT, Belgium
Kurt Smolderen is also with
Karel de Grote-Hogeschool, Hoboken, Belgium
“TinySPOTComm: Facilitating communication over IEEE 802.15.4 between
SunSPOTs and TinyOS-based motes”

18h00:

Carlo Alberto Boano, Zhitao He, and Thiemo Voigt
Swedish Institute of Computer Science, Kista, Sweden
James Brown and Utz Roedig
Lancaster University Computing Department, UK
“Low-Power Radio Communication in Industrial Outdoor Deployments: The Impact
of Weather Conditions and ATEX-compliance”

18h30:

Konstantinos Samalekas, Evangelos Logaras, Elias S. Manolakos
National and Kapodistrian University of Athens, Greece
“Embedded web server for the AVR Butterfly enabling immediate access to wireless
sensor node readings”

19h00: Banquet