

## ECRTS05

### Final OSPERT05 workshop programme

#### 1<sup>st</sup> Intl. Workshop on Operating Systems Platforms for Embedded Real-Time applications. OSPERT 2005. Chair Guiseppe Lipari.

- 09:00 Bus to Workshop Venue departs from Hotel Saratoga
- 09:30 - 10:00 Registration.
- 10:00 - 11:30 Session 1: Kernel Architectures for Embedded Systems.  
**Panel introduction.**  
**Challenges for scheduling media applications on a multiprocessor SoC.**  
C. M. Otero Pérez, G. van Doren. Philips Research, Eindhoven.  
**Impact of Embedded Systems Evolution on RTOS Use and Design.**  
D. Andrews, I. Bate, T. Nolte, C. M. Otero Perez, S. M. Petters. University of York, Philips Research Lab, Eindhoven, The Netherlands, NICTA, Australia.  
**Operating Systems and Supporting Architectures for Embedded Real-time Systems.**  
N. Audsley, R. Gao, A. Patil, P. Usher, J. Withman. University of York.  
**Open discussion.**
- 11:30 – 12:00 Coffee break.
- 12:00 – 13:30 Session 2: RTOS Architectures and APIs – I.  
**The FIRST API**  
Michael González-Harbor. Universidad de Cantabria. Spain.  
**The need for configurable and flexible scheduling in a RTOS aspiring to solve contemporary problems.**  
Thorbjorn Jemander. ENEA Epact. Sweden.  
**An overview of the XtratuM nanokernel.**  
M. Masmano, I. Ripoll, and A. Crespo. Universitat Politècnica de Valencia. Spain.  
**Kernel Support for Energy Management in Wireless Mobile Ad-Hoc Networks.**  
M. Marinoni, G. Buttazzo, T. Fachinetti, G. Franchino. University of Pavia. Italy.
- 13:30 – 15:00 Lunch break.
- 15:00 – 16:30 Session 3: Real-Time in general purpose OS.  
**Panel introduction.**  
**Variable-Rate QoS in the OS Network Subsystem.**  
H. Cheng, X. Liu, and S. Goddard. University of Nebraska-Lincoln, USA.  
**Developing a Complete Integrated Real-Time System.**  
S. A. Brandt, S. Banachowski, C. Lin, and J. Wu. Univ. California, USA.  
**A Unified Framework for multiple type resource scheduling with QoS guarantees.**  
L. Palopoli, P. Valente, T. Cucinotta, L. Marzario, A. Mancina. Scuola Superiore Sant'Anna. Italy.  
**Open discussion.**
- 16:30 – 17:00 Coffee break.
- 17:00 – 18:30 Session 4: RTOS Architectures and APIs – II.  
**Adding new features to the Open Ravenscar Kernel.**  
S. Urueña, J. A. Pulido, J. A. de la Puente, J. Zamorano. Universidad Politécnica de Madrid, Spain.  
**The OCERA operating System.**  
Alfons Crespo. Universitat Politècnica de Valencia. Spain.  
**Lightweight RTAI for DSPs.**  
J. Kretzschmar, R. Baumgartl. Technical University chemnitz. Germany.  
**Power Measurement as the Basis for Power Management**  
D. C. Snowdon and S. M. Petters. NICTA, Australia.
- 19:00- Bus departs from *Edifici Jovellanos* back to Hotel Saratoga.