

**Call For Papers: First IEEE WoWMoM Workshop on
Adaptive and Dependable Mission- and
Business-critical Mobile Systems (ADAMUS'07)**



ADAMUS'07



Helsinki,
Finland,
18th June,
2007

In conjunction with the 8th Int. Symposium on a World of Wireless, Mobile and Multimedia Networks (**WoWMoM'07**)

A truly extended use of mobile computing technologies asks for effective software engineering techniques to design, develop and maintain mission- and business-critical applications over mobile environments.

In recent years, we witnessed an increasing demand for mission- and business-critical applications over mobile environments. To overcome the intrinsic limitations of mobile devices and environments, a variety of research studies have produced a plethora of methods and proof-of-concept prototypes for supporting non-critical applications. However, it is still unclear whether current technologies, methods, and solutions can satisfy the challenging adaptability and dependability requirements of the emerging mobile mission- and business-critical systems and applications, such as mobile commerce, wireless control of robots, healthcare computing, and video-surveillance.

To be effective, these applications must endorse provisions that allow them to continue the optimal distribution of their service despite the occurrence of potentially significant and sudden changes or faults in their infrastructure and the surrounding environment. Hence, it is becoming increasingly important: to devise conceptual models and paradigms able to manage and to express strategies and provisions for change tolerance and for cross-layer adaptation; to propose mechanisms to model, design, and develop adaptive and dependable systems; to provide analytical and simulation tools to measure a system's ability to withstand faults and optimally re-adjust to new environments; to develop design-/run-time solutions to identify and enforce optimal trade-offs between energy consumption, performance, safety, and security.

The main goal of this first workshop is that of fostering exchange of ideas and lively discussions to reduce the gap between research achievements and industrial applications in the field of adaptive and dependable mission- and business-critical mobile systems and applications.

Researchers and practitioners from the academia and the industry are encouraged to participate. High quality papers able to identify open issues, to discuss the limits and/or advantages of existing solutions, or to propose original and innovative techniques for adaptive and dependable mission- and business-critical applications over mobile environments are solicited for submission. The main topics of the workshop include, but are not limited to:

- Dependability and real-time requirements for mobile systems
- Dependability measurement of mobile systems and services
- Design principles, models, and tools for adaptive mobile systems
- Mobile-enabled middleware for heterogeneous wireless networks
- Middleware support for adaptation and dependability
- Context data provisioning and modelling
- Context-based adaptive infrastructures
- Human-machine interaction and usability
- Multi-device systems
- Integration of heterogeneous software platforms and operating systems
- Architectures for resource and network monitoring and adaptation
- Cross-layer adaptation
- Software dependability in multimedia systems over wireless media
- Group communication and group membership services
- QoS control and component scheduling
- Standardization issues

PAPER SUBMISSION

ADAMUS 2007 invites authors to submit original and unpublished work. Papers must be written in English and should not exceed 6 pages in IEEE proceedings style. All submissions will be handled electronically. Authors should submit a PostScript or PDF file through the submission Web site (<http://www.mobilab.unina.it/ADAMUS/>). Submission implies that at least one of the authors will register and present the paper. Accepted papers will be published on CD by the IEEE Computer Society Press.

Workshop Co-Chairs:

Chris Blondia

PATS group
University of Antwerp
Belgium

Marcello Cinque

Mobilab group
Università degli Studi di Napoli Federico II
Italy

Vincenzo De Florio

PATS group
University of Antwerp
Belgium

Filip De Turck

Intec group
University of Ghent
Belgium

Cristiano Di Flora

Nokia Research Center
Finland

Publication Chair:

Luca Foschini

Mobile middleware group
Università degli Studi di Bologna, Italy

Web Site: <http://www.mobilab.unina.it/ADAMUS/>

Important Dates:

Paper submission deadline

Notification of acceptance

Final camera-ready manuscripts due

February 10th, 2007

March 10th, 2007

March 30th, 2007

Technical Program Committee

- Stefan Arbanowski, Fraunhofer FOKUS, Germany
- Andrea Bondavalli, Università di Firenze, Italy
- Cristian Borcea, New Jersey Institute of Technology, USA
- Angelo Corsaro, SELEX-SI, Italy
- Domenico Cotroneo, Università degli Studi di Napoli Federico II, Italy
- Bart Dhoedt, University of Ghent / Intec, Belgium
- Markus Endler, PUC-Rio, Brasil
- Stephane Frenot, INRIA, France
- Ibrahim Habib, CCNY, USA
- Valerie Issarny, INRIA, France
- Eija Kaasinen, VTT Technical Research Centre of Finland
- Wolfgang Kellerer, NTT DoCoMo Eurolabs, Germany
- Konrad Klöckner, Fraunhofer FIT, Germany
- Rodger Lea, University of British Columbia, Canada
- Nguyen Manh Tho, Vienna University of Technology, Austria
- Gianluca Mazzini, Università di Ferrara, Italy
- Joe McCarthy, Nokia Research Center, Palo Alto, CA, USA
- Ali Abu-Rgheff Mosa, School of Computing, Communications and Electronics, Plymouth, UK
- Eric Pardede, Latrobe University, Australia
- Enrico Rukzio, Lancaster University, UK
- Sotirios Terzis, University of Strathclyde, Scotland
- Francisco Valera, UC3M, Madrid, Spain
- Sven Van der Meer, TTSG, Ireland
- Katarzyna Wac, Université de Genève, Genève, Switzerland
- Xinheng Henry Wang, Kingston University, UK