



CALL FOR PAPERS



2nd IEEE Workshop on Autonomic Communications and Network Management (ACNM)

April 11, 2008, Salvador, Brazil

<http://www.netlab.nec.de/acnm08/>

In conjunction with the IEEE/IFIP Network Operations and Management Symposium (NOMS 2008)

Workshop Co-Chairs:

- Raouf Boutaba, University of Waterloo, Canada
- Marcus Brunner, NEC Europe, Germany

TPC Co-chairs:

- Stefan Schmid, NEC Europe, Germany
- Lisandro Zambenedetti Granville, UFRGS, Brazil

Technical Program Committee:

- Javier Baliosian, University of the Republic, Uruguay
- Anne-Marie Bosneag, Ericsson, Ireland
- Renato Lo Cigno, University of Trento, Italy
- Alexander Clemm, Cisco Systems, USA
- Spyros Denazis, Hitachi Europe Ltd, France & University of Patras, Greece
- Simon Dobson, University College Dublin, Ireland
- Alex Galis, UCL, UK
- Luciano Paschoal Gaspary, UFRGS, Brazil
- Eduardo Grampin, University of the Republic, Uruguay
- James Won-Ki Hong, POSTECH, Korea
- David Hutchison, Lancaster University, UK
- Ahmed Karmouch, University of Ottawa, Canada
- Randy Katz, UC Berkeley, USA
- Alexander Keller, IBM Global Technology Services, USA
- Guy Leduc, University of Liege, Belgium
- Edmundo Madeira, UNICAMP, Brazil
- Martin May, ETH Zurich, Switzerland
- Linnyer Ruiz, UEL, Brazil
- Rolf Stadler, KTH, Sweden
- Niranjani Suri, IHMC, USA
- John Vicente, Intel Corporation, USA
- Laurence Yang, St Francis Xavier University, Canada

The purpose of this workshop is to present and to discuss new theories, mechanisms and applications of Autonomic Communication – a new paradigm for forthcoming networks in the fixed as well as the mobile world. The focus of ACNM is on intelligent communication, network control and management paradigms based on smart network and service elements that are capable to automatically configure and organize themselves.

Autonomic networks will be able to sense their environment to perceive these changes, to understand the meaning of these changes, and to react in an intelligent manner through adaptation. This facilitates new ways to perform network control, management, service creation, etc. Autonomic networking naturally also applies to mission critical distributed systems, since autonomic behavior allows for immediate reaction to changes in the networking environment or context, and correction of any (predicted) problems. Such behavior also facilitates fault-tolerance and resilience.

ACNM offers a unique opportunity for researchers in this area to exchange their research ideas and findings. The workshop will be held in conjunction with NOMS 2008, which draws many leading researchers in the field of Network and Systems Management. It is co-sponsored by the IEEE Communications Society (IEEE ComSoc) and the EU IST Project ANA. Topics of interest include, but are not limited to, the following (the full CFP can be found at <http://www.netlab.nec.de/acnm08/>):

Topics:

- Autonomic network architectures and principles
- Paradigms, tools and techniques autonomic communication systems
- Control and management in dynamic/mobile network environments
- Self-management of communication systems and networks (e.g., based on peer-to-peer principles)
- Policy control for autonomic networks & systems
- Sensing, monitoring and measurements for autonomic networks
- Advances in and application of control theory
- Self-co-operating peer-to-peer networks
- Self-organizing network elements, and administrative domains
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- Self-* technologies
- Fault-tolerance and resilience
- Cognitive networking
- Plug and play networking components
- Knowledge based network control
- Bio-inspired networks and systems
- Experiences with self-* solutions
- Application of autonomic management to mobile and wireless networking including 3GPP evolved UTRAN, SAE networks, etc.

IMPORTANT DATES

Submission deadline: **January 20th, 2008 (extended!)**

Notification of acceptance: February 22nd, 2008

Camera ready version: March 9th, 2008

PAPER SUBMISSION

Papers must be original material, not currently be under review, and not have been previously published by another conference or journal. They must be written in English. They must follow the IEEE two-column document style, limited to 6-8 US Letter size pages, with a main text font size of no less than 10pt. Submissions must be in PDF format. To submit your paper, please go to the JEMS system at https://jems.sbc.org.br/noms2008_acnm2008.