



Autonomic Computing Workshop

The Fifth Annual International Workshop on
Active Middleware Services (AMS 2003)

Call For Papers

In conjunction with the 12th International Symposium on High Performance Distributed Computing ([HPDC 12](#)), Seattle Sheraton Hotel & Towers, Seattle WA, 25th June 2003

<http://www.caip.rutgers.edu/ams2003>

Sponsored by

- ❖ IBM Corporation
- ❖ National Science Foundation
- ❖ Valuation Software
- ❖ Society for Modeling and Simulation Intl.
- ❖ WINLAB, Rutgers University
- ❖ CAT, University of Arizona
- ❖ Arizona Center for Integrative Modeling & Simulation
- ❖ University of Southern California
- ❖ In corporation with IEEE & IEEE Computer Society

GENERAL CO-CHAIRS

S. Hariri, Univ. of Arizona, USA
C. S. Raghavendra, Univ. of Southern California, USA

PROGRAM CHAIR

Manish Parashar, Rutgers Univ., USA
(parashar@caip.rutgers.edu)

STEERING COMMITTEE

Salim Hariri, Univ. of Arizona, USA
Craig Lee, The Aerospace Corporation, USA
David Ogle, IBM Corporation, USA (Acting Chair)
Manish Parashar, Rutgers Univ., USA
C. S. Raghavendra, Univ. of Southern California, USA
Peter Reiher, Univ. of California at Los Angeles, USA
Bernard P. Zeigler, Univ. of Arizona, USA

PUBLICITY CHAIR

Yoonhee Kim, Sookmyung Women's Univ., S. Korea

PROGRAM COMMITTEE

Prathima Agrawal, Telcordia Technologies, USA
Micah Beck, Univ. of Tennessee, USA
Steve Berson, ISI/ Univ. of Southern California, USA
Rajkumar Buyya, Monash Univ., Australia
Munehiro Fukuda, Univ. of Washington, Bothell, USA
Virginie Galtier, IAAI, France
Bala Iyer, IBM, USA
Stephen Jarvis, Univ. of Warwick, UK
Jeffery Kephart, IBM, USA
Yoonhee Kim, Sookmyung Women's Univ., S. Korea
Alexander V. Konstantinou, Columbia Univ., USA
Laurent Lefèvre, INRIA, France
Douglas Maughan, DARPA, USA
Kevin Mills, NIST, USA
Hilarie Orman, Purple Streak Development, USA
Maximilian A. Ott, Semandex, USA
Jens-Peter Redlich, NEC, USA
Karsten Schwan, Georgia Institute of Technology, USA
Vaidy Sunderam, Emory Univ., USA
Jon Weissman, Univ. of Minnesota, USA

IMPORTANT DATES

- ❖ Submission deadline: February 28, 2003
- ❖ Notification of acceptance: March 17, 2003
- ❖ Final Manuscript due: April 07, 2003
- ❖ Workshop: June 25, 2003

The increasing complexity of networks, services and applications has necessitated investigating the design, development and deployment of active systems, services and applications that are capable of autonomic existence – i.e. they are self-defining, self-configuring, self-optimizing, self-protecting, self-healing, context aware and anticipatory. The 5th Annual International Active Middleware Services Workshop will focus on the Autonomic Computing and will bring together leading researchers and ideas in this emerging discipline. The scope of the workshop includes the following and other related areas:

- ❖ Autonomic, dynamic data-driven, pervasive applications
- ❖ Autonomic and pervasive Grids
- ❖ Programming paradigms applications development support for active and autonomous environments
- ❖ Composition and interaction models of autonomic and pervasive applications
- ❖ Bio-system analogs in autonomic computing
- ❖ Integrative theories and frameworks for autonomic computing
- ❖ Multi-agent systems and scout systems
- ❖ Policy engines and deductive shells
- ❖ Autonomic/Peer-to-peer/Context-aware middleware services
- ❖ Security services and models for autonomous applications and active environments
- ❖ Trust management in autonomic and active environments
- ❖ Runtime and management issues in autonomic and active environments
- ❖ "Fast and frugal" decision making for reactive control
- ❖ QoS management in autonomic and active environments
- ❖ Active, adaptive and ad hoc routing
- ❖ Service dissemination and discovery protocols
- ❖ Sensor networks, active content networks, and pervasive environments
- ❖ Active networks and storage as grid computing resources
- ❖ Multi-resolution modeling for scalable applications

PAPER SUBMISSIONS

AMS 2003 invites authors to submit original and unpublished work. Please submit extended abstracts (5 pages maximum, [IEEE CS format](#)). Electronic submission is strongly encouraged. Hard copies will be accepted only if electronic submission is not possible. Submission implies the willingness of at least one of the authors to register and present the paper. Any questions concerning hardcopy submissions or any other issues may be directed to the Program Chair.

PUBLICATION

The workshop proceedings will be published by IEEE Computer Society Press and distributed at the conference.

SPECIAL ISSUE

The 6 best papers in the workshop's focus area of Autonomic Computing will be chosen for journal-length papers in a special issue of [Cluster Computing, The Journal of Networks, Software Tools and Applications](#).

FURTHER INFORMATION

For further information please contact the Program Chair: Manish Parashar, <parashar@caip.rutgers.edu>