GENERAL CHAIR’S MESSAGE

On behalf of the Organizing Committee of the 2003 Autonomic Computing Workshop (known formerly as the Active Middleware Services) we extend to you a heart felt welcome to Seattle, Washington, USA. The workshop series on Active Middleware Services (AMS) and Autonomic Computing has been sponsored by the National Science Foundation (NSF). In particular, we would like to thank Frederica Darema, Senior Program Manager at NSF for her guidance and support to this workshop. This workshop is collocated with the 12th IEEE International Symposium on High Performance Distributed Computing (HPDC-12) and the 8th Global Grid Forum.

The proliferation of Internet technologies, services and devices, have made the current networked system designs, and management tools incapable of designing reliable, secure networked systems and services. In fact, we have reached a level of complexity, heterogeneity, and a rapid change rate that our information infrastructure is becoming unmanageable and incapable of handling the complexity, heterogeneity, uncertainty, and security requirements. On other hand, biological systems have developed successful strategies and techniques to handle these issues. The main goal of Autonomic Computing research is to address these research challenges and propose solutions that will lead to the design and development of the next generation of networked systems and services that are capable of managing and controlling themselves, and can anticipate their workloads and automatically adjust the configurations of their resources to meet the new loads. Autonomic Computing research will lead to the design and development of networked systems and services that are self-defining, self-configuring, self-healing, self-optimizing, self-anticipating, being contextually aware of their environments, are and open. We are pleased to position our Autonomic Computing Workshop to be the premier forum for autonomic computing researchers, developers, and users to discuss their latest advances and solutions.

This year’s technical program presents high-quality papers in autonomic software, networks and applications. We thank Manish Parashar (Technical Program Chair), Rutgers University, for his outstanding, time-consuming effort in assembling an excellent program committee, managing the reviews, and selection of this year’s papers. Additionally, we like to thank the steering committee members for their guidance and support. In particular, I like to thank, David Ogle, IBM, Steering Committee Chair for his support and guidance.

In this year’s program, we are pleased to feature distinguished keynote and invited speakers. Our keynote speaker address entitled “Autonomic Computing: Implementation and Vision”, will be given by Alan Ganek, IBM. Our invited speakers will present their latest autonomic computing projects and will be given by Ken Birman (Cornell University), Jeffrey Kaufman (IBM), and G. Kaiser (Columbia University).

Many people have contributed towards the success of the 2003 Autonomic Computing Workshop. I like to thank Yoonhee Kim, Sockmyung Women's University, S. Korea for her role as publicity chair. Additionally, I would like to thank Paul Baltes and his staff at the University of Arizona for his role as the registration and local arrangement chair.
Finally, I would like to gratefully acknowledge the support of IBM, National Science Foundation, Valuation Software, Society for Modeling and Simulation, IEEE & IEEE Computer Society, Arizona Center for Integrative Modeling & Simulation, University of Southern California, WINLAB, Rutgers University, and CAT, University of Arizona.

On behalf of the organization committee, we extend an invitation to our colleagues pursuing research in the area of Autonomic Computing to join us as we develop the next era of computing systems and applications.

We hope to see you in Seattle.

Salim Hariri, Co-General Chair  
*The University of Arizona, USA*  

C. S. Raghavendra, Co-General Chair  
*University of Southern California, USA*