The ICAS 2006 (International Conference on Autonomic and Autonomous Systems) is a multi-track event covering related topics on theory and practice on systems automation, autonomous systems and autonomic computing.

The second edition of the ICAS held in San Jose, Silicon Valley, July 20-21, 2006 became now a reference in the autonomic and autonomous community and provided an international forum for discussions between researchers, practitioners and students interested in new developments targeting all areas of networking. ICAS 2006 was the 2nd conference of this successful series and was organized and technically sponsored by IARIA organizations with proceedings published by the IEEE Computer Society Press.

Similar to the first edition, this event continued to be very competitive in its selection process and very well perceived by the international networking community. As such, it is attracting excellent contributions and active participation from all over the world. This year more than 160 submissions were reviewed by the members of the technical program. We were very pleased to receive a large amount of top quality contributions.
The accepted papers cover a wide range of networking related topics spanning from theory and practice of such systems, modeling, monitoring and control, context-aware aspects, and design. We believe that the ICAS 2006 contributions offered a large panel of solutions to key problems in all areas of networking and services and set challenging directions for industrial research and development.

This year, ICAS 2006 initiated the workshop SELF -2006, targeting self-adaptability and self-management of context-aware systems, was chaired by Dhouha Ayed, Yolande Berbers, and Petre Dini. The workshop focused on the emerging methodologies that enable the control and management of context-aware computing systems, focusing on adaptability and self-adaptability.

A special panel on “Autonomous Systems and Self-management - hype or reality?” allowed well known specialists under Alexander Clemms’s call to express their vision.

We take here the opportunity to warmly thank all the members of the ICAS 2006 technical program committee as well as the numerous reviewers. The creation of such a broad and high quality conference program would not have been possible without their involvement. We also kindly thank all the authors that dedicated much of their time and
efforts to contribute to the ICAS 2006. We truly believe that thanks to all these efforts, the final conference program consists of top quality contributions.

This event could also not have been a reality without the support of many individuals, organizations and sponsors. We also gratefully thank the members of the ICAS 2006 organizing committee for their help in handling the logistics and for their work that is making this professional meeting a success.

We gratefully appreciate to the technical program committee co-chairs that contributed to identify the appropriate groups to submit contributions:

- Freimut Bodendorf, University of Erlangen, Germany [AUTONOMIC 2006 Chair]
- Roy Sterritt, University of Ulster, UK [SYSAT 2006 Chair]
- Alex Galis, University College London, UK [AWARE 2006 Chair]
- Wu- Hon Francis Leung, Illinois Institute of Technology, USA [ALCOC 2006 Chair]
- José Neuman De Souza, Universidade Federal do Ceará, Brazil [MCMAC 2006 Chair]
- Omer Rana, Cardiff University, UK [AUTSY 2006 Chair]
We hope the ICAS 2006 was a successful international forum for the exchange of ideas and results between academia and industry and to promote further progress in networking research.

Silicon Valley’s fascinating technology cluster surely provided a pleasant environment during the conference and we hope that everyone saved some time for visiting the coastal surroundings, San Francisco, Napa Valley, and Carmel Valley.

ICAS 2006 Proceedings Editors:

Petre Dini
Dhouha Ayed
Cosmin Dini
Yolande Berbers