

ADAPTIVE 2016

Forward

The Eighth International Conference on Adaptive and Self-Adaptive Systems and Applications (ADAPTIVE 2016), held between March 20-24, 2016 in Rome, Italy, continued a series of events targeting advanced system and application design paradigms driven by adaptiveness and self-adaptiveness. With the current tendencies in developing and deploying complex systems, and under the continuous changes of system and application requirements, adaptation is a key feature. Speed and scalability of changes require self-adaptation for special cases. How to build systems to be easily adaptive and self-adaptive, what constraints and what mechanisms must be used, and how to evaluate a stable state in such systems are challenging duties. Context-aware and user-aware are major situations where environment and user feedback is considered for further adaptation.

The conference had the following tracks:

- Self-adaptation
- Adaptive applications
- Adaptivity in robot systems
- Fundamentals and design of adaptive systems

Similar to the previous edition, this event attracted excellent contributions and active participation from all over the world. We were very pleased to receive top quality contributions.

We take here the opportunity to warmly thank all the members of the ADAPTIVE 2016 technical program committee, as well as the numerous reviewers. The creation of such a 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 effort to contribute to ADAPTIVE 2016. We truly believe that, thanks to all these efforts, the final conference program consisted of top quality contributions.

Also, this event could not have been a reality without the support of many individuals, organizations and sponsors. We also gratefully thank the members of the ADAPTIVE 2016 organizing committee for their help in handling the logistics and for their work that made this professional meeting a success.

We hope ADAPTIVE 2016 was a successful international forum for the exchange of ideas and results between academia and industry and to promote further progress in the area of adaptive and self-adaptive systems and applications. We also hope that Rome provided a pleasant

environment during the conference and everyone saved some time for exploring this beautiful city.

ADAPTIVE 2016 Chairs

ADAPTIVE 2016 Advisory Chairs

Radu Calinescu, University of York, UK

Thomas H. Morris, Mississippi State University, USA

Serge Kernbach, CYBERTRONICA RESEARCH-Stuttgart, Germany

Jose Alfredo F. Costa, Universidade Federal do Rio Grande do Norte (UFRN), Brazil

Marc Kurz, Johannes Kepler University Linz - Institute for Pervasive Computing, Austria

ADAPTIVE 2016 Industry/Research Chairs

Dalimír Orfánus, ABB Corporate Research Center, Norway

Weirong Jiang, Xilinx Research Labs, San Jose, USA

ADAPTIVE 2016 Publicity Chairs

Kier Dugan, University of Southampton, UK