

# COGNITIVE 2011

## Foreword

The Third International Conference on Advanced Cognitive Technologies and Applications [COGNITIVE 2011], held between September 25 and 30, 2011 in Rome, Italy, targeted advanced concepts, solutions and applications of artificial intelligence, knowledge processing, agents, as key-players, and autonomy as manifestation of self-organized entities and systems. The advances in applying ontology and semantics concepts, web-oriented agents, ambient intelligence, and coordination between autonomous entities led to different solutions on knowledge discovery, learning, and social solutions.

We take here the opportunity to warmly thank all the members of the COGNITIVE 2011 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 who dedicated much of their time and efforts to contribute to COGNITIVE 2011. 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 are grateful to the members of the COGNITIVE 2011 organizing committee for their help in handling the logistics and for their work to make this professional meeting a success.

We hope that COGNITIVE 2011 was a successful international forum for the exchange of ideas and results between academia and industry and for the promotion of progress in the field of advanced cognitive technologies and applications.

We are convinced that the participants found the event useful and communications very open. We also hope the attendees enjoyed the charm of Rome, Italy.

### **COGNITIVE 2011 Chairs:**

Po-Hsun Cheng (鄭伯璦), National Kaohsiung Normal University, Taiwan

Petre Dini, Concordia University - Montreal, Canada / China Space Agency Center - Beijing, China

Hermann Kaindl, TU-Wien, Austria

Narayanan Kulathuramaiyer, UNIMAS, Malaysia

Jaime Lloret Mauri, Polytechnic University of Valencia, Spain

Sugata Sanyal, Tata Institute of Fundamental Research - Mumbai, India

Qin Xin, Simula Research Laboratory, Norway