

# AMBIENT 2015

## Forward

The Fifth International Conference on Ambient Computing, Applications, Services and Technologies (AMBIENT 2015), held between July 19-24, 2015 in Nice, France, was devoted to a global view on ambient computing, services, applications, technologies and their integration.

On the way to a full digital society, ambient, sentient and ubiquitous paradigms lead the torch. There is a need for behavioral changes for users to understand, accept, handle, and feel helped within the surrounding digital environments. Ambient comes as a digital storm bringing new facets of computing, services and applications. Smart phones and sentient offices, wearable devices, domotics, and ambient interfaces are only a few of such personalized aspects. The advent of social and mobile networks along with context-driven tracking and localization paved the way for ambient assisted living, intelligent homes, social games, and telemedicine.

The conference provided a forum where researchers were able to present recent research results and new research problems and directions related to them. We welcomed technical papers presenting research and practical results, position papers addressing the pros and cons of specific proposals, such as those being discussed in the standard forums or in industry consortiums, survey papers addressing the key problems and solutions on any of the above topics, short papers on work in progress, and panel proposals.

The conference had the following tracks:

- Ambient computing environments, sensors and hardware
- Ambient devices, applications and systems
- Ambient computing and modeling

Similar to previous editions, 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 AMBIENT 2015 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 AMBIENT 2015. 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 AMBIENT 2015 organizing committee for their help in handling the logistics and for their work that made this professional meeting a success.

We hope that AMBIENT 2015 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 Ambient Computing, Applications, Services and Technologies. We also hope that Nice, France, provided a pleasant environment during the conference and everyone saved some time to enjoy the charm of the city.

### **AMBIENT 2015 Chairs**

#### **AMBIENT Advisory Chairs**

Maarten Weyn, University of Antwerp, Belgium  
Yuh-Jong Hu, National Chengchi University-Taipei, Taiwan (ROC)  
Naoki Fukuta, Shizuoka University, Japan  
Andrzej Skowron, Warsaw University, Poland  
Stephan Hengstler, MeshEye Consulting, USA  
Andreas Schrader, University of Lübeck, Germany  
Jean Vareille, Université de Bretagne Occidentale, France  
Peter Roelofsma, VU - Amsterdam, The Netherlands  
Tomasz Rutkowski, University of Tsukuba, Japan  
Keith V. Nesbitt, University of Newcastle, Australia  
Gunver Majgaard, University of Southern Denmark, Denmark  
Thomas Grill, University of Salzburg, Austria  
Sven Hartmann, Clausthal University of Technology, Germany  
Daniel Berckmans, Katholieke Universiteit Leuven, Belgium  
Eugenio Aguirre Molina, Universidad de Granada, Spain  
Jean-Paul Sansonnet, LIMSI, University of Paris-Sud 11, France  
José Bravo, Castilla-La Mancha University, Spain  
Shusaku Nomura, Nagaoka University of Technology, Japan

#### **AMBIENT 2015 Industry/Research Liaison Chairs**

Rémi Emonet, Idiap Research Institute, Switzerland  
Mieczyslaw A. Klopotek, Polish Academy of Sciences - Warszawa, Poland  
Gerhard Nussbaum, Competence Network Information Technology to Support the Integration of People with Disabilities, Austria  
Alexander Paar, TWT GmbH Science and Innovation, Germany  
Patrick Sayd, CEA SACLAY - NANO INNOV - Gif Sur Yvette, France  
Ingo Zinnikus, DFKI GmbH - Saarbrücken, Germany  
Jennifer Stein, University of Southern California, USA  
Florian Scharf, Institute for Multimedia and Interactive Systems, Germany

#### **AMBIENT Special Area Chairs**

##### **Agents**

Adina Magda Florea, University "Politehnica" of Bucharest, Romania

**Sensing**

Sandra Sendra Compte, Polytechnic University of Valencia, Spain

**Context-awareness**

Sylvain Giroux, Université de Sherbrooke, Canada

**AMBIENT Publicity Chairs**

Nancy Diniz, Rensselaer Polytechnic Institute, USA

Tomas Zizka, technical University of Liberec, Czech Republic