

# PATTERNS 2018

## Forward

The Tenth International Conferences on Pervasive Patterns and Applications (PATTERNS 2018), held between February 18 - 22, 2018 - Barcelona, Spain, continued a series of events targeting the application of advanced patterns, at-large. In addition to support for patterns and pattern processing, special categories of patterns covering ubiquity, software, security, communications, discovery and decision were considered. It is believed that patterns play an important role on cognition, automation, and service computation and orchestration areas. Antipatterns come as a normal output as needed lessons learned.

The conference had the following tracks:

- Patterns basics
- Patterns at work
- Discovery and decision patterns

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 PATTERNS 2018 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 PATTERNS 2018. 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 PATTERNS 2018 organizing committee for their help in handling the logistics and for their work that made this professional meeting a success.

We hope PATTERNS 2018 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 pervasive patterns and applications. We also hope that Barcelona provided a pleasant environment during the conference and everyone saved some time for exploring this beautiful city.

## **PATTERNS 2018 Chairs**

### **PATTERNS Steering Committee**

Herwig Manaert, University of Antwerp, Belgium  
Claudia Raibulet, University of Milano-Bicocca, Italy  
Sneha Chaudhari, Carnegie Mellon University, Pittsburgh, USA  
Valerie Gouet-Brunet, IGN, LaSTIG, MATIS, France  
Wladyslaw Homenda, Warsaw University of Technology, Poland  
Patrick Siarry, Université Paris-Est Créteil, France  
Yuji Iwahori, Chubu University, Japan  
Alexander Mirnig, University of Salzburg, Austria  
Markus Goldstein, Ulm University of Applied Sciences, Germany  
Stan Z. Li, Institute of Automation - Chinese Academy of Sciences, China  
Reinhard Klette, Auckland University of Technology, New Zealand  
Jacqueline Daykin, King's College London, UK / Aberystwyth University, Mauritius Branch  
Campus

### **PATTERNS Industry/Research Advisory Committee**

Charles Perez, Paris School of Business, France  
Christian Kohls, TH Köln, Germany  
Krzysztof Okarma, West Pomeranian University of Technology, Szczecin, Poland  
George A. Papakostas, Eastern Macedonia and Thrace Institute of Technology, Greece  
Adel Al-Jumaily, University of Technology, Australia