

# IMMM 2013

## Foreword

The Third International Conference on Advances in Information Mining and Management (IMMM 2013), held between November 17-22, 2013 in Lisbon, Portugal, continued a series of academic and industrial events focusing on advances in all aspects related to information mining, management, and use.

The amount of information and its complexity makes it difficult for our society to take advantage of the distributed knowledge value. Knowledge, text, speech, picture, data, opinion, and other forms of information representation, as well as the large spectrum of different potential sources (sensors, bio, geographic, health, etc.), led to the development of special mining techniques, mechanisms support, applications and enabling tools. However, the variety of information semantics, the dynamic of information update and the rapid change in user needs are challenging aspects when gathering and analyzing information.

We take here the opportunity to warmly thank all the members of the IMMM 2013 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 IMMM 2013. 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 IMMM 2013 organizing committee for their help in handling the logistics and for their work to make this professional meeting a success.

We hope that IMMM 2013 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 information mining and management.

We are convinced that the participants found the event useful and communications very open. We hope that Lisbon, Portugal, provided a pleasant environment during the conference and everyone saved some time to enjoy the charm of the city.

### **IMMM 2013 Chairs:**

#### **IMMM General Chairs**

Philip Davis, Bournemouth and Poole College - Bournemouth, UK  
David Newell, Bournemouth University - Bournemouth, UK

#### **IMMM Advisory Chairs**

Petre Dini, Concordia University, Canada & IARIA, USA  
Andreas Holzinger, Institute for Medical Informatics, Statistics and Documentation (IMI) / Medical University Graz (MUG), Austria  
Kuan-Ching Li, Providence University, Taiwan  
Abdulrahman Yarali, Murray State University, USA

### **IMMM Industry Liaison Chairs**

George Ioannidis, IN2 search interfaces development Ltd., UK  
Johannes Meinecke, SAP AG / SAP Research Center Dresden, Germany

### **IMMM Special Area Chairs on Data Management**

Robert Wrembel, Poznan University of Technology, Poland

### **IMMM Special Area Chair on Special Mining**

Yulan He, Knowledge Media Institute / The Open University, UK

### **IMMM Special Area Chair on Semantic Data Handling**

Stefan Brüggemann, OFFIS - Institute for Information Technology, Germany

### **IMMM Special Area Chair on Databases**

Lena Strömbäck, Linköpings Universitet, Sweden

### **IMMM Special Area Chair on Cloud-based Mining**

Roland Kübert, High Performance Computing Center Stuttgart / Universität Stuttgart, Germany

### **IMMM Publicity Chairs**

Zaher Al Aghbari, University of Sharjah, UAE  
Alejandro Canovas Solbes, Polytechnic University of Valencia, Spain