

# Welcome Message from the Chairs

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We are very pleased to welcome our colleagues from Europe, Asia and other parts of the world to the UK Simulation Society and Asia Modeling & Simulation Section to the Eighth European Modelling Symposium, EMS2014 being held in Pisa, Italy. The first conference was held at University College London (UCL) in September 2006, the second at Liverpool Hope University in September 2008, the third in November 2009 in Athens, Greece, the fourth in November 2010 in Pisa, Italy, the fifth in Madrid in November 2011, and the sixth in Malta in November 2012, and the seventh, EMS2013, was in Manchester, United Kingdom. The conference Program Committee has organized an exciting and balanced program comprising presentations from distinguished experts in the field, and important and wide-ranging contributions on state-of-the-art research that provides new insights into the latest innovations in modelling and computer simulation applied to a very wide spectrum of applications in science, technology and industry. The second such event in Pisa, we are extremely pleased and proud it has attracted such a good number of submissions. We are hopeful that its outstanding technical content contributed by leading researchers in the field from Europe, Asia and worldwide will ensure its continued success for the future. No plans have yet been finalized for the location of next year's event, but it would be appropriate to choose another interesting location in Europe, preferably southern Europe to have warmer temperature to enjoy the weather in the late Autumn season.

The main themes addressed by this conference are:

- Intelligent Systems
- Hybrid Intelligent Systems & Hybrid Soft Computing
- Methodologies, Tools and Operations Research
- Bio-informatics and Bio-Medical Simulation
- Discrete Event and Real Time Systems
- Image, Speech and Signal Processing
- Industry, Business and Management
- Human Factors, Social & Economic Sciences
- Engineering: Civil, Mechanical, Chemical, Industrial, Manufacturing and Control
- Energy, Power Generation and Distribution
- Transport, Logistics, Harbour, Shipping and Marine Simulation
- Virtual Reality, Visualization and Computer Games
- Parallel and Distributed Architectures and Systems
- Internet Modelling, Semantic Web and Ontologies
- Mobile/Ad hoc wireless networks, mobicast, sensor placement, target tracking
- Performance Engineering of Computer & Communication Systems
- Circuits, Sensors and Devices
- E-Science and e-Systems

EMS2014 is technically sponsored by IEEE Computer Society UK & RI section, IEEE Region 8, Scuola Superiore Sant'Anna, Pisa, UK Simulation Society, Asia Modelling and Simulation Section (AMSS), European Simulation Federation (EUROSIM), European Council for Modelling and Simulation (ECMS), University of Manchester, University of Malta, Liverpool University, Manchester Metropolitan University, Kingston University, McLeod Institute of Simulation Science, Genoa, University of Malaysia in Pahang, University of Malaysia in Sabah, Riga University of Technology, University of Technology Malaysia (UTM), and Nottingham Trent University, UK. EMS2014 proved to be very popular and received submissions from over 20 countries. The conference program committee had a very challenging task of choosing high quality submissions. Each paper was peer reviewed by several independent referees of the program committee and, based on the recommendation of the reviewers, 90 papers were finally chosen for inclusion in the proceedings. The papers offer stimulating insights into emerging computer modelling and simulation techniques and their applications. We express our sincere thanks to the plenary speakers, authors, track chairs, Program Committee members, and additional reviewers who have made this conference a success. Finally, we hope that you will find the conference to be a valuable resource in your professional, research, and educational activities whether you are a student, academic, researcher, or a practicing professional. Enjoy!

**David Al-Dabass, Valentina Colla, Marco Vannuci, Athanasios Pantelous**  
*General, Conference and Program Chairs*