

## Conference

Model cities are moving forward towards novel ecosystems, combining environmental, social and economic issues in more inclusive and integrated frameworks. With sustainable development arises the huge challenge of combining innovative ideas regarding design, materials and products with non-polluting processes and technologies, conserving energy and other natural resources.

Sustainable Intelligent Manufacturing is regarded as a manufacturing paradigm for the 21st century, towards the next generation of manufacturing and processing technologies. New business opportunities are emerging, as sustainability has become a key concern for government policies, businesses and general public.

The International Conference on Sustainable Intelligent Manufacturing, organized by the Centre for Rapid and Sustainable Product Development, Polytechnic Institute of Leiria, and the Faculty of Architecture, Technical University of Lisbon, will take place at Lisbon, Portugal, from June 26 to June 29, 2013.

The Conference aims to provide a major international forum for academics, researchers and industrial partners to exchange ideas in the field of sustainable intelligent manufacturing and related topics. It expects to foster networking and collaboration among participants to advance the knowledge and identify major trends in the field.



# SIM 2013

26 to 29 Jun

## Sustainable Intelligent Manufacturing International Conference

Lisbon Portugal

- ### Conference Topics
- Computer-aided green manufacturing
  - Eco-design and eco-innovation
  - Design for climate change
  - Inclusive design
  - Sustainable construction
  - e-Manufacturing
  - Green manufacturing
  - Green Entrepreneurship
  - Green supply chain management
  - Green transportation
  - Renewable energy technologies
  - Reuse, remanufacturing, disassembly and recycling techniques
  - Sustainable packaging solutions
  - Smart manufacturing
  - Reverse logistics and product recovery
  - Smart and sustainable materials
  - Life-cycle engineering and assessment
  - Energy efficiency in manufacturing
  - Energy and Climate policy
  - Smart design for sustainability
  - Sustainable technology innovation
  - Sustainable factory planning and scheduling
  - Sustainable business models
  - Zero-waste production
  - Nearly Zero-Energy Buildings
  - Resource Efficient Cities

### Invited Speakers

- Branko Kolarevic**  
University of Calgary, Canada
- Francesco Jovane**  
Politecnico di Milano, Italy
- Gabriela Celani**  
UNICAMP, Brazil
- Giuseppe D'Angelo**  
FIAT Research Center, Italy
- Joost Duflou**  
University of Leuven, Belgium
- Klaus Sedlbauer**  
Fraunhofer-Instituts für Bauphysik IBP, Germany
- Lawrence Sass**  
MIT, USA
- Marco Santochi**  
University of Pisa, Italy
- Paulo Jorge Ferreira**  
University of Texas at Austin, USA
- Rivka Oxman**  
Technion Israel Institute of Technology, Israel
- Robert Miles Kemp**  
Variante Labs, USA

## Scientific Committee

**Alain Bernard**  
École Centrale de Nantes, France

**Andres Harris**  
Architectural Association School of Architecture, UK

**Antonio Frattari**  
University of Trento, Italy

**António Torres Marques**  
Universidade do Porto, Portugal

**Aouad Ghassan**  
University of Salford, UK

**Antje Kunze**  
ETH Zürich, Switzerland

**David L.S. Hung**  
Shanghai Jiao Tong University, China

**Derek Clements-Croome**  
University of Reading, UK

**Dirk Uwe Sauer**  
RWTH Aachen University, Germany

**Fernando Moreira da Silva**  
Universidade Técnica de Lisboa, Portugal

**Gerhard Schmitt**  
ETH Zürich, Switzerland

**Giuseppe D'Angelo**  
Centro Ricerche FIAT, Italy

**Gideon Levy**  
Centre for Rapid and Sustainable Product Development,  
Portugal

**Hans Haenlein**  
Hans Haenlein Architects, UK

**Hazim B. Awbi**  
University of Reading, UK

**Humberto Varum**  
Universidade de Aveiro, Portugal

**Ian Gibson**  
National University of Singapore, Singapore  
Centre for Rapid and Sustainable Product Development,  
Portugal

**Jay Yang**  
Queensland University of Technology, Australia

**Jan Halatasch**  
ETH Zürich, Switzerland

**Joaquim Jorge**  
Universidade Técnica de Lisboa, Portugal

**Joaquim de Ciurana**  
University of Girona, Spain

**John W. Sutherland**  
Purdue University, USA

**Joost Dufflou**  
KU Leuven, Belgium

**Jorge de Brito**  
Universidade Técnica de Lisboa, Portugal

**Jorge Lopes dos Santos**  
Pontifícia Universidade Católica do Rio de Janeiro, Brasil

**José Bártolo**  
Escola Superior de Artes e Design Matosinhos, Portugal

**Kevin Lyons**  
The State University of New Jersey, USA

**Klaus Sedlbauer**  
Fraunhofer-Institut für Bauphysik IBP, Germany

**Kunze Antje**  
ETH Zürich, Switzerland

**Livia Tirone**  
Construção Sustentável, Portugal

**Luc Laperrière**  
Université du Québec à Trois-Rivières, Canada

**Luís Bragança**  
Universidade do Minho, Portugal

**Marco Santochi**  
Università di Pisa, Italy

**Maria da Graça Carvalho**  
European Parliament

**Marwan Khraisheh**  
Masdar Institute, United Arab Emirates

**Manuel Pinheiro**  
Universidade Técnica de Lisboa, Portugal

**Mohamed Hussein**  
University of Connecticut School of Business, USA

**Michael Braungart**  
Environmental Protection Encouragement Agency (EPEA),  
Germany

**Miles Kemp**  
Variate Labs, USA

**Neri Oxman**  
MIT Media Laboratory, USA

**Paul Chamberlain**  
Sheffield Hallam University, UK

**Paulo Lourenço**  
Universidade do Minho, Portugal

**Pedro Gaspar**  
Universidade Técnica de Lisboa, Portugal

**Peter Lansley**  
University of Reading, UK

**Peter Lund**  
Aalto University School of Science, Finland

**Rangan Banerjee**  
Indian Institute of Technology, India

**Regiane Pupo**  
Universidade Federal de Santa Catarina, Brasil

**Rita Almendra**  
Universidade Técnica de Lisboa, Portugal

**Rivka Oxman**  
Technion Israel Institute of Technology, Israel

**Russell Marshal**  
Loughborough University, UK

**Shengwei Wang**  
Hong Kong Polytechnic University, China

**Steve Evans**  
University of Cambridge, UK

**Tahar Laoui**  
King Fahd University of Petroleum & Minerals, Saudi Arabia

**Thomas Bock**  
Technische Universität München, Germany

**Victor Ferreira**  
Universidade de Aveiro, Portugal

**Wilfried Sihh**  
Vienna University of Technology, Austria

**Winifred Ijomah**  
University of Strathclyde, UK

## Conference Venue

This event will be held at the Faculty of Architecture, University of Lisbon, which has good modern facilities and a friendly academic atmosphere. The city of Lisbon is a vibrant cultural city with plenty of heritage buildings and museums, unique historic venues, white stone pavements, pastel-shaded buildings, picturesque fountains and gardens, a beautiful river Tagus, and wide sandy beaches minutes away from the historical centre. The waterfront is part of the city's poetry and is essential to Fado, a world heritage music style born in the streets of the Portuguese capital. Lisbon is also noted for the rich and diversified gastronomy offered by its many restaurants.

In Lisbon's surroundings, there are miles of sunny beaches in Cascais, Ericeira and Costa da Caparica, a bit further South, the Arrábida Natural Park and, to the North, the world heritage village of Sintra. Overall, Lisbon offers one of the most varied and beautiful settings in the world.

[www.sim.ipleiria.pt](http://www.sim.ipleiria.pt)

[organization.sim@ipleiria.pt](mailto:organization.sim@ipleiria.pt)