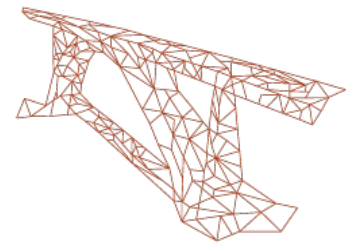# CISPEE 2013

1ST INTERNATIONAL CONFERENCE OF THE PORTUGUESE SOCIETY FOR ENGINEERING EDUCATION

OCT 31 - NOV 01, 2013 - ISEP, OPORTO, PORTUGAL

The Portuguese Society for Engineering Education (SPEE) (http://spee.org.pt/) organizes its 1st International Conference (CISPEE) under the theme: "Engineering Education: Challenges for Innovation". The event aims to provide an opportunity for presenting and discussing the topics listed below, which, in general terms, affect all Engineering schools. The conference program will also include a number of keynotes - in addition to thematic sessions - addressing important aspects in Engineering Education: Industry-Academia relation in Engineering Education and its impact on jobs and wealth creation; Science and Engineering dissemination among Society; and, Quality in Engineering Education.

Topics of interest (not limited to)

Engineering Ethics • Embedding Ethics in Engineering Education • Teaching Codes of Ethics • Plagiarism • Credits, Rights, and Responsibilities of Dissertation Advisor • Reverse Engineering • Role of Engineers in Society • Ethics and Risk Assessment • **ICT in Engineering Education** • Computers in Engineering Education • Mobile Devices in Education • Human-Computer Interaction • Web Interface Design • Collaborative Environments and Tools • Assessment Tools • E-learning in Engineering Education • Multimedia Contents for e/b/m-learning • Augmented and Virtual Reality • Serious Games • **Continuing Engineering Education (CEE)** • Joint academic-industry initiatives in CEE • Curricula Development in Engineering Degrees • Role of Professional and Technical Societies in CEE • Role of Government in CEE • CEE programs and initiatives • Lifelong Learning in Engineering • Impact of Educational and Scientific Research in Engineering Programs • Informal and non-formal Learning in Engineering • Non-traditional students in Engineering • Economical aspects of CEE • Training in the workplace as part of CEE • The contributing role of CEE for job creation in a global economic crisis • **Tools to Develop Higher Order Thinking Skills** • Concept Mapping for Learning and Assessment • Self-regulated Learning Strategies • Problem solving and Creativity • Designing Courses for Higher Order Thinking • Using Online Tools to Facilitate Learning • Communication Skills for Technical Thinkers • Information Literacy and Our Tech-savvy Students • Developing Skeptical Thinkers • **Mathematics in Engineering Education** • Logic Knowledge and Mathematical Competences in Engineering • Computational Tools for Teaching Mathematics in Engineering • Use of Mathematical Models and Simulators in Engineering Education • Case Studies

Proceedings

CISPEE will publish the proceedings in electronic format. A book of abstracts will also be available in printed format. A number of selected, high-quality, papers will be invited for publication in the International Journal of Engineering Pedagogy (iJEP). The possibility to publish selected papers, in Portuguese, in IEEE-RITA, in the TICAI 2013 edition, in the magazine of the Portuguese Engineers Society (OE), and in the magazine of Engineering Education, published by the Brazilian Association of Engineering Education (ABENGE), has also been arranged in advance. **IEEEXplore® will index accepted papers meeting IEEE requirements of content and format.**

Language

English. There is also the opportunity to submit papers in Portuguese.

Venue and travel information

The Polytechnic of Porto – School of Engineering will host the event at its premises, located in the city of Porto, in northern Portugal. Porto is a modern city with an ancient history, having been continuously inhabited since, at least, the 4th century. UNESCO awarded the World Heritage status to its historical center in 1996. Served by an excellent airport with direct flights from / to Europe, North and South-America (www.ana.pt), and with a functional and modern metro network, Porto offers an accessible and ideal location for CISPEE 2013. Additional information on how to reach the conference venue and where to stay is available in the conference webpage at www.isep.ipp.pt/cispee/

Important dates

- June, 2nd · submission deadline
- July, 21st · notification of acceptance
- September, 15th · early author registration
- September, 29th · camera-ready due
- **Conference** · **October 31st - November 1st**

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