



The Portuguese Society for Engineering Education (SPEE) (<http://spee.org.pt>) organizes its 2nd International Conference (CISPEE 2016) under the theme: “(Re)Thinking Higher Engineering Education”. The CISPEE 2016 edition aims to bring together teachers and researchers from several engineering schools, institutions, and industry to share good practices that may contribute to raise questions related to the improvement of the critical thinking and problem solving, communication, collaboration and creativity and innovation in engineering education. The conference program will also include keynotes in engineering education, in addition to thematic sessions.

Topics of interest (not limited to)

Engineering Ethics: Embedding Ethics in Engineering Education; Codes of Ethics; 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; Critical Thinking in Engineering; 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; Statistics in Engineering Education; Case Studies; **Future Outlook of the Profession and Education in Engineering:** Engineering Education and Engineering, innovation, social and economic development; **Engineering Education and Engineering (EEE),** technology and society; EEE: Social Responsibility and corporate Social Responsibility; EEE: Emerging Issues and Challenges; EEE foresight and forecasts of the future; Emerging and future areas of Engineering Education and Engineering

Proceedings

CISPEE will publish the proceedings in electronic format. A book of abstracts will also be available in printed format and with ISBN. A number of selected, high quality, papers will be invited for publication in international journals such as IJEP and EJEE. The possibility to publish selected papers, in Portuguese, in the magazine of Engineering Education, published by the Brazilian Association of Engineering Education (ABENGE) has also been agreed. **IEEEExplore® 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 University of Trás-os-Montes e Alto Douro - School of Engineering and Technology will host the event at its premises, located in the city of Vila Real, in northern eastern Portugal. Vila Real is a modern city in the Alto Douro Region that has been producing wine for nearly two thousand years and its landscape has been molded by human activities, its preservation, and its cultural landscape make the Alto Douro an outstanding example of a traditional European wine-producing region. Alto Douro Wine Region is UNESCO World Heritage Centre since 2001. You can fly directly from Lisbon to Vila Real (<http://www.aerovip.pt>). You may come to the Oporto airport (www.ana.pt) with quick connections with Vila Real (<http://www.rodonorte.pt> or <http://www.rede-expressos.pt>). Vila Real offers the ideal location for CISPEE 2016 and its Social Program. Additional information on how to reach the conference venue and where to stay is available in the conference webpage at <http://cispee2016.utad.pt/index.html>

Important dates

- **May, 22th June 15th - NEW and final submission deadline**
- July, 10th • Notification of acceptance
- September, 18th • Early author registration and camera-ready due
- October 19th • Workshop
- **Conference** • October 20th and 21st
- October 22nd • **Social Program**



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