



Call for Papers

IEEE Global Engineering Education Conference - EDUCON2012 Marrakesh, Morocco, 17-20 April 2012

www.educon-conference.org

The IEEE Global Engineering Education Conference is the third of a series of conferences that rotates among central locations in IEEE Region 8, Europe, Middle East and North Africa. The theme of this third EDUCON2012 conference will be

“Collaborative Learning & New Pedagogic Approaches in Engineering Education”.

It will be hosted by University Mohammed V Souissi, Morocco in the period 17-20 April 2012.

General Chairs

- **Rachida Ajhoun**, ENSIAS, University Mohammed V Souissi, Morocco
- **Michael E. Auer**, Carinthia Tech Institute Villach, Austria
- **Martin Llamas**, University of Vigo, Spain

Main Conference Topics

We invite submissions of papers in the categories of: research, development, evaluation and best practices that deal with Engineering Education in academic, organizational, and life-long learning settings including, but not limited to the following areas.

Area 1: Educational Methods and Learning Mechanisms in Engineering Education

Rethinking Pedagogy in Engineering Education • E-Assessment and new Assessment Theories and Methodologies • Active Learning • Learning Models • Pedagogies • Lifelong Learning and Non-traditional Students • E-learning in the Workplace • Study Abroad Programs • Attracting and retaining practices in Engineering Education • Technology Enhanced Learning for students with special needs • Accessibility in On-Line and Technology Enhanced Learning

Area 2: Infrastructure and Technologies for Engineering Education

Learning Systems Platforms and Architectures • Intelligent Learning Systems • Computer Supported Collaborative Learning • Open Source, Open Standards, and Federated Systems • Standardization, Reusability and Interoperability Issues • Learning Objects reusability and digital repositories • Experiences in OpenCourseWare Engineering Education • Computer and Web based Software • Uses of Technology in the Classroom • Semantic Web and Ontologies for Learning Systems • Web 2.0 and Social Computing for Learning and Knowledge Sharing • Data Mining and Web Mining in Education • Synchronous and Asynchronous Technologies • Wireless, Mobile and Ubiquitous Technologies for Learning • Standardization, Reusability and Interoperability Issues

Area 3: Innovative Materials, Teaching and Learning Experiences in Engineering Education

Laboratory Experiences: on-site and remote environments • Undergraduate Research Experiences • Design Experiences • Innovative Engineering Courses and Labs • Digital Game and Intelligent Toy Enhanced Learning • Human-Centered Web Science and its Applications to Technology-enhanced Learning • E-Assessment • Virtual Worlds for Academic, Organizational, Life-long Learning and training • Innovative Competitions and Laboratories

Area 4: Excellence in Engineering Education



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Models of Excellence in Education • Attracting, Engaging and Retaining Human Talent to Engineering • Gifted Education • Competencies, Individual Differences, Intervention and Development • Building Creative Climates

Area 5: Knowledge and Competencies in Engineering Education

Knowledge and Competencies Management • Accreditation Issues • Assessment and Feedback
• Degree Programs and Curricula • First Year Courses and Programs • General Issues in Engineering Education • Specific Engineering Disciplines • Faculty Development • Globalization: Preparing Faculty and Students
• Graduate Curricula and Programs • New Frameworks for Engineering Education • Skills Development: Technical Writing, Presentation, Teamwork

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Important Dates

30 September 2011	Abstract Submission
19 October 2011	Notification of Acceptance
21 November 2011	Full paper Submission
19 December 2011	Notification of Acceptance
23 January 2012	Author Registration
13 February 2012	Final Paper Due
17-20 April 2012	EDUCON 2012



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