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

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**