



## Call for Papers

# IEEE Global Engineering Education Conference - EDUCON2012

## Marrakesh, Morocco, 17-20 April 2012

[www.educon-conference.org](http://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

## Program Committee Chairs

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- **Local Arrangements & Treasurer: Amine Berqia**, IEEE, ENSIAS, LeRMA, E-NGN, Morocco
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## Important Dates

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



**LeRMA**

**IAOE.**