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

**Program Committee Chairs**

- **Local Arrangements & Treasurer:** Amine Berqia, IEEE, ENSIAS, LeRMA, E-NGN, Morocco
- **Technical Program Chair:** Danilo Garbi Zutin, IEEE, CUAS Villach, Austria
- **Special Sessions and Panels Chair:** Ablame Begdouri, IEEE, FSTF, E-NGN, Morocco
- **Special Activities Chair:** Abdellrahim Haqiq, IEEE, FSTS, E-NGN, Morocco
- **Awards Chair:** Russ Meier, IEEE, Milwaukee School of Engineering, USA
- **Web, Publication and Electronic Media Chair:** Sebastian Schreiter, IAOE, Vallon Pont d’Arc, France
- **Financial Chairs:** Manuel Castro, UNED, Sapin and Edmundo Tovar, UPM, Spain
- **Workshops and Exhibit Chair:** Hamadou Saliah-Hassane, Télé-Université/UQAM, Canada
- **Region 8 - Europe Chair:** Arnold Pears, Uppsala University, Sweden
- **Region 8 - Middle East Chair:** Amr Ibrahim, American University-Cairo, Egypt
- **Region 8 - Africa Chair:** Mona Laroussi, Centre Urbain Tunis, Tunisia
- **International - North America Chair:** Dan Moore, Rose-Hulman Institute of Technology, USA
- **International - South America Chair:** Rosa M. Vicari, UFGRS, Brazil
- **International - Asia Chair:** Diane Salter, University of Hong Kong, China
- **International - Australia Chair:** Vanessa Chang, Curtin University of Technology, Australia
- **IEEE Morocco Section Chair:** Essaidi Mohamed, IEEE, Univ. Abdelmalek Essaâdi, Morocco

**International Advisory Board**

Rob Reilly, Chair, President IEEE Education Society, MIT CECI, USA ● Nicolas Beute, Cape Peninsula University of Technology, South Africa ● Rafael Calvo, The University of Sydney, Australia ● Melany Ciampi, Council of Researchers in Education and Sciences, Brazil ● Trond Clausen, IEEE EdSoc, Norway ● Paloma Diaz, University Carlos III of Madrid, Spain ● Charles B. Fleddermann, Editor-in-Chief of the IEEE Transactions on Education, University of New Mexico, USA ● Regina Hannemann, University of Kentucky, USA ● Sabina Jeschke, ZLW/IMA der RWTH Aachen, Germany ● Kinshuk, Athabasca University, Canada ● Susan Lord, University of San Diego, USA ● Akinori Nishihara, Tokyo Institute of Technology, Japan ● Cornel Samoila, Transilvania University of Brasov, Romania ● Howie Southworth, The George Washington University, USA ● Aleksandar Szabo, University of Zagreb, Croatia

**Important Dates**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 September 2011</td>
<td>Abstract Submission</td>
</tr>
<tr>
<td>19 October 2011</td>
<td>Notification of Acceptance</td>
</tr>
<tr>
<td>21 November 2011</td>
<td>Full paper Submission</td>
</tr>
<tr>
<td>19 December 2011</td>
<td>Notification of Acceptance</td>
</tr>
<tr>
<td>23 January 2012</td>
<td>Author Registration</td>
</tr>
<tr>
<td>13 February 2012</td>
<td>Final Paper Due</td>
</tr>
<tr>
<td>17-20 April 2012</td>
<td>EDUCON 2012</td>
</tr>
</tbody>
</table>