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**
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

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