Call for Papers
IEEE Global Engineering Education Conference
"Learning Environments and Ecosystems in Engineering Education"
EDUCON2011
Princess Sumaya University for Technology
Amman, Jordan
4-6 April 2011
www.educon-conference.org

The IEEE Global Engineering Education Conference is the second of a series of conferences that will rotate among central locations in IEEE Region 8, Europe, Middle East and North Africa. The theme of this second EDUCON2011 conference will be “Learning Environments and Ecosystems in Engineering Education”. It will be hosted by Princess Sumaya University for Technology, Jordan in the period 4-6 April 2011.

Main Conference Topics

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 ● K-12 Initiatives and Partnerships ● 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 ● Gender and Cultural Issues in Engineering Education

Area 2: Learning in Transition and Engineering Education Ecosystems
   Educational Ecosystems ● Adaptive and Personalized Technology-Enhanced Learning ● Collaborative and Social Technologies ● Ambient Intelligence and Smart Environments for Learning ● Affective and Pervasive Computing for Learning

Area 3: Infrastructure and Technologies for Engineering Education
Area 4: 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 5: 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 6: 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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- Edmundo Tovar, Universidad Politécnica de Madrid, Spain

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• **International - Australia Chair**: Vanessa Chang, Curtin University of Technology, Australia
• **Web and Electronic Media Chair**: Sebastian Schreiter, International Association of Online Engineering (IAOE), France

**Important Dates**

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