



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

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 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

General Chairs

- **A.Y. Al-Zoubi**, Princess Sumaya University for Technology, Amman, Jordan
- **Michael E. Auer**, Carinthia Tech Institute Villach, Austria
- **Edmundo Tovar**, Universidad Politécnica de Madrid, Spain

EDUCON2011 International Advisory Board

- **Rob Reilly, Chair**, Secretary, IEEE Education Society, MIT Media Lab, USA • **Susan Lord**,
President IEEE Education Society, University of San Diego, USA • **Salah Al-Sharhan**, Gulf
University for Science and Technology, Kuwait • **Adel M. Alimi**, University of Sfax, Tunisia
- **Ali Yazici**, Atilim University, Turkey • **Nicolas Beute**, Cape Peninsula University of
Technology, South Africa • **Rafael Calvo**, 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 • **Paul Lefrere**, Open University,
UK • **Martin Llamas**, University of Vigo, Spain • **Osama Mimi**, Birzeit University, Palestine
- **Wolfgang Nejdl**, Editor-in-Chief of the IEEE Transactions on Learning Technologies,
University of Hannover, Germany • **Akinori Nishihara**, Tokyo Institute of Technology, Japan •
Hamadou Saliah-Hassane, Télé-Université/UQAM, Canada • **Cornel Samoila**, Transilvania
University of Brasov, Romania • **Howie Southworth**, The George Washington University, USA
- **Aleksandar Szabo**, University of Zagreb, Croatia

EDUCON2011 Program Committee Chairs

- **A. Y. Al-Zoubi**, Princess Sumaya University for Technology, Jordan
- **Edmundo Tovar**, Universidad Politécnica de Madrid, Spain

- **Publication, Publicity and Dissemination Chair:** Wejdan Abu Elhaija, Princess Sumaya University for Technology, Jordan
- **Finance Chair:** Yazan Al-Quda, Princess Sumaya University for Technology, Jordan
- **Technical Program Chair:** Danilo Garbi Zutin, Carinthia Tech Institute, Villach, Austria
- **Special Sessions and Panels Chair:** Andreas Pester, Carinthia University of Applied Sciences, Villach, Austria
- **Workshops Chair:** Christian Guetl, Graz University of Technology, Austria
- **New Faculty Fellows Chair:** Mohamed Ben Ammar, ISIG Kairouan, Tunisia,
- **Special Activities Chair:** Ahmad Khasawneh, Hashemite University, Jordan
- **Awards Chair:** Faruq Al-Omari, Yarmouk University, Jordan
- **Exhibits Chair:** Osama Abu Sharkh, Princess Sumaya University for Technology, Jordan
- **Other Related Societies Chair:** Ali El-Mousa, University of Jordan, Jordan,
- **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
- **Web and Electronic Media Chair:** Sebastian Schreiter, International Association of Online Engineering (IAOE), France

Important Dates

15 September 2010	Abstract Submission
10 October 2010	Notification of Acceptance
15 November 2010	Full paper Submission
10 December 2010	Notification of Acceptance
15 January 2011	Author Registration
30 January 2011	EDUCON2011 Program Ready
05 February 2011	Final Paper Due