Special Session “IT’s and Engineering Pedagogy”

(ITEP’12)

The objective of this Special Session is to offer an open discussion and a reflection in the use of Information Technologies in Engineering Education and their Pedagogy. It also intends to foster the involvement in continuing education, bridging the gap between higher education and the industry by focusing the IT’s use in lifelong learning and training. At K-12 level this session intends to evaluate the impact of IT’s in fostering younger people in the field of science and technology. At any level it is important to evaluate the IT’s power in facilitating the collaborative work everywhere. Finally, it is relevant to consider the IT’s potentiality in improving engineering education conditions in developing countries and for those people with special needs.

The topics include (but are not limited to):

IT’s and Pedagogy
Legal Aspects of IT’s
Computers for Education
Distance Learning and Distance Teaching
Online Tools to Engage Students
Multimedia for Education
Educational Technologies for People with Special Needs
Mobiles in Education
Online Labs: remote, virtual and hybrid
Haptic Devices: Tools for Knowledge Development
Human-Computer Interaction
Intelligent Tutoring Systems
Human-Machine Interaction in the Training Process
Ontological Modeling for Educational Applications
Serious Games
Technological Innovation, Product Innovation and Industrial Innovation
Engineering Education oriented for K-12 Teachers and Students

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Publication:

All accepted papers will appear in the EDUCON2012 proceedings, published by IEEE and listed in IEEE Explore, EI Compendex, SCOPUS, etc.

Selected papers are planned to be published in a special issue of the “International Journal of Engineering Pedagogy” (iJEP), http://www.i-jep.org