

The International Journal of
**ENGINEERING
EDUCATION**

CALL FOR PAPERS

SPECIAL ISSUE ON

INNOVATIVE METHODS OF TEACHING ENGINEERING

Guest Editor

Dr. Francisco José García-Peñalvo – University of Salamanca, Spain

Dr. Ricardo Colomo-Palacios, University Carlos III of Madrid, Spain

Contributions are invited for a special issue of the International Journal of Engineering Education (IJEE) on Innovative Methods of Teaching Engineering.

Engineering and innovation are inseparable concepts. This symbiotic relationship is seen in engineers' workplaces and in engineering research & development processes. It should also be present in engineers' education methods.

Methods of teaching engineering are always open to evolution in order to include the huge possibilities that technological advances may offer. Remote and virtual laboratories, robotic applications, 3D virtual worlds, augmented reality developments, complex data visualizations, mobile applications, etc. are only a few examples of emerging technological supports for teaching methods such as problem-based learning, case-based learning, online learning and so on.

Also of interest are topics related to open engineering education, especially the MOOC (Massive Open Online Course) approach. The main question is how to achieve the personalized interaction that engineering processes require with the massive audience of MOOC.

Therefore, it is important to analyze the impact of innovative teaching approaches on engineering education in order to be ready to spread and share successful case studies and lessons learned from experiences related to:

- Remote laboratories
- Virtual laboratories
- 3D virtual worlds in engineering education
- Mobile learning of engineering subjects
- Augmented and virtual reality experiences in engineering education

- Big data applications related to engineering education
- Gamification in engineering education
- Robots in the classroom
- Massive Open Online Course (MOOC) development and issues regarding engineering subjects
- Innovative software for engineering education
- Multicultural perspectives of engineering education
- Interdisciplinary engineering education

Important Deadlines

Extended abstract (around 2 pages)	December 20, 2013
Notification of editors' feedback	January 10, 2014
Submission of manuscripts	January 30, 2014
Notification of reviewers' feedback	March 15, 2014
Submission of final manuscripts	April 30, 2014

Submissions are to be sent by e-mail in MSWord and PDF to Prof. Francisco J. García-Peñalvo at fgarcia@usal.es

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