

CALL FOR PAPERS
European Journal of Engineering Education
Special issue on “*Engineering Education: Challenges for Innovation*”

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Engineering education plays an essential role in the pursuit of a more sustainable and equitable world. During the past 100 years a number of challenges have been tackled by a worldwide community of researchers, either motivated by the emergence of new technologies contributing to or requiring a redefinition of engineering curricula or by the input of educational sciences with suggestions for new approaches to teaching & learning. In all these shifts, innovation played a key role: either by improving a given aspect without compromising all remaining aspects (evolution) or by introducing a radically new aspect, often borrowed from other knowledge areas, allowing to improve a number of aspects at the same time (revolution).

The US have shaped the landscape of engineering education for the past century, with associations like the American Society for Engineering Education (ASEE) now celebrating more than 120 years of existence, while Europe and Latin America have only embraced this movement in more recent decades, with associations like the European Society for Engineering Education (SEFI), and the Brazilian Association for Engineering Education (ABENGE), both being created in 1973. More recently, the Portuguese Society for Engineering Education (SPEE) was formally created in 2010.

This special issue of the EJEE complements the organization of the 1st International Conference of SPEE, dedicated to the theme “Engineering Education: Challenges for Innovation”, Porto, Portugal, 31st October – 1st November 2013. CISPEE’13 simply aims to be yet another opportunity to advance the discussion of engineering education research in a continuous loop of evolution / revolution. Prospective authors are invited to submit manuscripts concerning any topic of innovation in engineering education.

References

J. E. Froyd; P. C. Wankat; K. A. Smith, "Five Major Shifts in 100 Years of Engineering Education," Proceedings of the IEEE, vol. 100, no. Special Centennial Issue, pp.1344-1360, May 13 2012

J. S. Cordeiro; N. N. Almeida; M. N. Borges; S.C. Dutra; O.L. Valinote; Z.M.C. Pravia, “A Future for Engineering Education in Brazil: Challenges and Opportunities”, Revista de Ensino de Engenharia, v. 27, n. 3, p. 69-82, Edição especial 2008 – ISSN 0101-5001 (in Portuguese)

Important dates

Publication of Call for Papers	June 2013
Extended abstract (max. 2 pages)	December 8, 2013
Notification of editor’s feedback	January 14, 2014
Submission of manuscripts	February 23, 2014

Manuscripts reviewed & notification of reviewers' feedback	April 1, 2014
Authors response & submission of final manuscripts	May 13, 2014
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