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**SPECIAL ISSUE ON**

**Trends in Software Engineering for Engineering Education**

**Guest Editors**

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Software Engineering is at the present time a widespread discipline in the development of software projects. Software Engineering courses are usually included in Engineering Education graduate degrees, especially in Computer Science contexts. Software Engineering is also present in other aspects of education: teaching and learning processes are generally supported by applications such as Learning Management Systems, virtual simulators, remote labs or expert systems.

These are complex and very specific software systems that support varied functionalities and involve the interaction of several stakeholders (educators, domain experts, developers, final users, etc.). Software Engineering provides methodologies, processes, tools and techniques to cope with this complexity that are particularly appropriate for Engineering Education, where the teaching methods, instructors and students are more open to adopt new technological advances. In this sense, standard Software Engineering techniques should be adapted to manage more easily the changes of these contexts that are continuously evolving. These methods and techniques can be referred to as Software Engineering for Engineering Education.

The goal of this special issue is to examine the current trends in Software Engineering for Engineering Education, considering not only how Software Engineering is taught to future engineers, but also how it is applied to the development of specific systems to support Engineering Education.

### Topics of interest include:

- Software Requirements for Engineering Education
- Software technologies (architectures, modeling, specification, design and development) applied to the development of complex systems for Engineering Education
- Evaluation of the usability of applications, systems and platforms, and user satisfaction in Engineering Education
- Management of multidisciplinary/interdisciplinary teams of educators, domain experts and developers in the production and maintenance of systems, applications and contents for Engineering Education
- Testing, verification and validation of software
- Certification of Quality Software
- Empirical Methods for Software Engineering
- Model-driven Software Engineering
- Software Language Engineering
- Standardization and normalization
- Systematic reviews of the literature on the application of Software Engineering in Engineering Education.
- Development of methodologies for Engineering Education

Submissions are to be sent by e-mail in MSWord (.doc) to any of the guest-editors:

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### Important Deadlines

Submission of extended abstracts (around two pages):	December 31, 2014
Notification of reviewers' feedback:	January 20, 2015
Submission of manuscript:	February 27, 2015
Notification of reviewers' feedback:	April 15, 2015
Submission of final manuscript:	June 30, 2015

Manuscripts must be written in English and limited to 12 one-sided, one-column, single-spaced pages. Manuscripts should include keywords, complete affiliation of the authors and a short biography. The citing and listing of references should be in the IJEE style. Figures and illustrations should be suitable for non-color printing. The manuscript should not include copyrighted material.

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