IEEE TRANSACTIONS ON EDUCATION

Call for Papers

Special Issue on Open Educational Resources (OER): Original Experiences Using
Open CourseWare and OER

Submission Deadline: 1 May 2013

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The Transactions seeks original manuscripts for a Special Issue on Open Educational Resources scheduled to appear in the February 2014 issue of the journal.

Open Educational Resources (OER) have assumed significant momentum since Massachusetts Institute of Technology (MIT) started publishing educational resources online as OpenCourseWare (OCW) in 2001. In 2007 the OCW Consortium was founded; since then more than 300 institutions have joined. The OCW Consortium is the largest international OER organization, but there are many other OER initiatives. At present, hundreds of higher education institutions worldwide produce, reuse, and remix educational materials. The fact that educational content is becoming more widely available, free and online, leads to the question: What role will colleges and universities play in the future?

OER can help institutions provide higher education to rapidly increasing numbers of students and lifelong learners. Traditional colleges and universities, with their experience and reputation, are in a good position to further develop online teaching and testing, learning communities, and certification. Those that produce high-quality knowledge, teaching, and students have little to fear, and much to gain, from OER. This movement has challenged the traditional value chain by employing new methods to deliver high quality educational content. In this new paradigm for educational content consumption, OER are expected to play a decisive role for learning. Thus OER are becoming a popular topic for new research techniques and significant challenges need to be addressed.

This special issue will focus on innovative experiences using OCW/OER to demonstrate the theory and practice of electrical and computer engineering, presenting both scientific and educational studies using OER-based novel educational research techniques such as Social Web, Semantic Web, Linked Data, and the like that are within the scope of interest of the IEEE Transactions on Education. The target audience will be educators and researchers across the field of electrical and computer engineering, as well as practitioners wanting an insight into the future of OCW and the overall OER value chain.
The IEEE Transactions on Education solicits original and unpublished contributions for a Special Issue that must clearly embrace OCW/OER and one or more of the following topic areas:

- Studies of creativity in the use of OCW/OER in teaching and learning for the future - in particular those that combine the theory and practice of electrical and computer engineering.
- Prospective visions for OCW/OER and technology-based teaching and learning.
- Content modeling and metadata for next generation of OCW/OER.
- Case studies of implementing Mobile technologies applications, Social Web, Semantic Web or Linked Data in OCW/OER traditional approaches.
- Improving traditional OCW/OER approaches with the help of ethical, educational and economic aspects of Linked Data.
- Recommender systems for OCW/OER supported by Social or Semantic Web
- Quality and evaluation metrics for OCW/OER

Authors wishing to contribute to this special issue MUST refer to the Transactions' Web site at http://www.ewh.ieee.org/soc/es/ToE-manuscript.html for information relative to the issues that must be addressed in manuscript preparation. Note that submitted manuscripts MUST:

- Report on work tied to an educational environment
- Clearly present intended contributions of the manuscript
- Support intended contributions with compelling, well-written arguments. If one or more of the intended contributions asserts that students have mastered intended content, then the manuscript must present meaningful assessment/evaluation data analyzed according to modern, widely accepted statistical approaches. If one or more of the intended contributions asserts that students have mastered intended content more effectively, then the data and statistical analysis must account for other factors that might explain differences in student performance.
- Situate contributions within the context of prior work, i.e., a literature review, that clearly delineates prior contributions and articulates new contributions in the submitted manuscript.
- Be DIRECTLY RELEVANT to the theme of the issue.
- Be planned to fit within six journal pages.

Manuscripts must be submitted electronically to the Transactions’ ScholarOne web site at http://mc.manuscriptcentral.com/te-ieee no later than 1 May 2013, with “Special Issue” being selected as “Manuscript Type” in the corresponding menu. For further information contact the Senior Special Issue Editor for this issue: Oscar M Bonastre, Miguel Hernandez University, Spain (ombonastre@ieee.org).

All submissions will be peer-reviewed by following the IEEE Transactions on Education review standards and processes.

**Special Issue Timeline:**
Submission deadline: 1 May 2013
First notification: 1 July 2013
Author Revision Due: 1 August 2013
Notification of Acceptance if Major Revision Required: 1 Oct 2013
Accepted Manuscripts Due for Editorial Review: 15 October 2013
Manuscript Packet Information Sent to Author: 16 November 2013
Manuscript Packet Due from Author to Editor: 16 December 2013
Tentative Publication Date: February 2014