Advances in Human-Computer Interaction

Special Issue on
Recommender Systems for e-Learning: A Step beyond Adaptivity

CALL FOR PAPERS

Nowadays, the availability of e-learning and systems on the internet is causing an exponential growth of the demand for distance education. Thanks to the Internet, the 21st century seems to be the century of lifelong learning: people who geographically and culturally spread across the globe, companies, practitioners, students, and communities of practice are involved in learning programs based on the use of educational material available both on specific e-learning platforms and, in general, on the Internet. In that, one of the greatest challenges facing researchers is to facilitate the adoption and use of e-learning systems and the selection and automated delivery of learning materials, especially when they are to be adapted to end-users specific learning needs. To this aim, Recommending Systems are a category of web-based systems that administer personalized views of a repository of materials, where the personalization can be over individuals or groups on whose specific interests the recommendations are proposed. In the educational field, these systems use different strategies and techniques to suggest the right learning items, going beyond adaptivity.

It is in this context that this special issue could become stimulating for both researchers, teachers, and learners, so as to attract methodologically robust research, presenting new conceptual or empirical approaches, and review papers describing the current accomplishments. We encourage particularly the submission of articles where recommendations and automated support is given (1) to teachers (such as in the construction of courses by selection of relevant learning resources retrieved on the web); (2) to students (such as in the case of course adaptation or help in taking individual decisions about what learning experience to select, out of several, possibly pedagogically equivalent, available ones); (3) to communities, based on their inner dynamics. Among other interesting and challenging topics, which we would like to offer to the journal's readers, is the assessment-based recommendation (useful to suggest next learning activities after an evaluation of student's previous tasks). Furthermore, the investigation of uses of social networks and of learning systems based on the analysis of similarity among users can reveal to be a very strong asset in an e-learning, network-based system for both students and teachers.

Potential topics include but are not limited to the following:

- Recommendation of learning units
- Social recommendations in communities of practice for learning and e-learning
- Formal and informal scenarios of recommendation in e-learning
- Usability of social recommender systems for technology-enhanced learning
- Mobile-based technologies for recommendations and adaptivity in e-learning
- Design and implementation of adaptive e-learning systems
- Visual presentation of data in educational recommending systems
- Visual presentation of data in adaptive recommending systems
- Teacher and user modeling in technology-enhanced learning
- Evaluation methods and techniques for educational recommending systems
- Evaluation of adaptive e-learning systems
- Models, methods, and tools for recommendations in eLearning

Authors can submit their manuscripts through the Manuscript Tracking System at https://mts.hindawi.com/submit/journals/ahci/ratel/.

Papers are published upon acceptance, regardless of the Special Issue publication date.

Lead Guest Editor

Filippo Sciarrone, Roma Tre University, Rome, Italy
sciarro@dia.uniroma3.it

Guest Editors

Marco Temperini, Sapienza University, Rome, Italy
marte@dis.uniroma1.it

Ricardo Queirós, School of Media Arts and Design, Porto, Portugal
ricardoqueiros@esmad.ipp.pt

Malinka Ivanova, Technical University of Sofia, Sofia, Bulgaria
m_ivanova@tu-sofia.bg

Submission Deadline
Friday, 2 March 2018

Publication Date
July 2018