

NEW RESULTS ON E-LEARNING METHODOLOGIES

ALBEANU, Grigore
Spiru Haret University
g.albeanu.mi@spiruharet.ro

VLADA, Marin
Bucharest University
vlada@fmi.unibuc.ro

Abstract

This note introduces invited papers on recent results on e-Learning methodologies. Some articles are extensions of previously published papers in the proceedings of the International Conference on Virtual Learning, other contributions being quite new.

Keywords: *ICVL, e-Learning, computer-based education, e-pedagogy*
ACM classification: K.3.1, J.0

The increasing impact of recent information and communication technologies in all fields of the society life determines people from industry, business and academia to be more interested in developing new models and methodologies, and to build software supporting the new paradigms in training, learning, and research.

Starting from 2006, every year, the Bucharest University, jointly with SIVECO and Romanian Higher Education Partners (Bucharest University (2006), *Ovidius* University of Constanta (2007, 2008), *Gheorghe Asachi* Technical University of Iași (2009), University of Medicine and Pharmacy in Târgu Mureș (2010)) organize the International Conference on Virtual Learning with four sections: M&M – Models and Methodologies, TECH – Technologies, SOFT – Software solutions, and Intel®Education – Innovation on Education and Research.

ICVL Project intends to explore and proposes innovations in education in the perspective of the Knowledge Society. The International Conference on Virtual Learning has the following objectives: creating a framework for a large scale introduction of the eLearning approaches in teaching and training activities; assisting the teachers, professors and trainers in the use of innovative teaching technologies both in formal education and life-long learning; stimulating the development of eLearning projects and software for education process and systems; promoting and developing scientific research for eLearning, educational software and virtual reality.

The conference has established a large area of topics to cover the following subjects, but not limited to: Innovative teaching and learning technologies, Web-based methods and tools in traditional, online education and training, Collaborative e-Learning, e-Pedagogy, Design and development of online courseware, Information and knowledge processing, Knowledge representation and ontologism, Cognitive modelling and intelligent systems, Algorithms and programming for modelling, Advanced distributed learning technologies, Web, virtual reality/AR

and mixed technologies, Mobile e-Learning, communication technology applications, Computer graphics and computational geometry, Intelligent virtual environments, New software environments for education and training, Streaming multimedia applications in learning, Scientific web-based laboratories and virtual labs, Soft computing in virtual reality and artificial intelligence, Avatars and intelligent agents.

Participants coming from Europe, Japan, Australia and Canada, along the years, have discussed various aspects concerning the future developments in the virtual learning field.

The papers present various ideas both from hardware and software, but most important their authors describe the state of the art in the field of Virtual Learning.

This special issue, published by the journal *Analele Universității Spiru Haret, seria Matematică - Informatică / Annals of Spiru Haret University, Mathematics-Informatics Series*; <http://anale-mi.spiruharet.ro>), proposes ten papers describing recent advances in e-Learning methodologies, some of them being extensions of the selected ICVL 2010 articles.

We acknowledge the journal editorial board for having invited us to prepare this special issue as guest editors.