

Editorial for EJEL Volume 15 Issue 3

This EJEL issue represents a selection of nine papers based on highly interesting work which discusses conceptual advances in many different branches of e-learning. A panel of reviewers and the two editors recommended the seven papers in this EJEL issue.

In the paper *How note-taking instruction changes student's reflections upon their learning activity during a blended learning course*, Minoru Nakayama, Kouichi Mitsuura and Hiroh Yamamoto focus on the metrics of self-efficacy and self-assessment when examining the effectiveness of note-taking instruction on emotional aspects of participants during a blended learning course. The participant's emotional and cognitive changes were examined by the causal analysis. The authors show that note-taking activities significantly stimulated the level of self-efficacy and self-assessment when the lecturer's instructions were able to improve note-taking skills factor scores during the course.

The paper *Securing trust, roles and communication in e-advising* offers an interesting look on advising in the written on-line communication. Ole Jørgen S. Ranglund, Anette Danielsen, Linda Kiørnig and Tone Vold focus on the question if and how advising sessions in the on-line environment can keep the important feature of advising sessions – the trust between the student and the advisor and security of the communication.

In the paper *Model of higher GIS education*, Imrich Jakab, Michal Ševčík and Henrich Grežo focus on geospatial data processing in Environmental Science at Master's degree education. They consider it in the Inquiry based learning framework. They show a model that supports student's motivation to learn, offers increased efficiency of education process and helps to improve preparation of students for their profession.

Cultural content of online electronic materials is the topic of Hana Moraová's contribution *Do authors of online electronic materials for teaching mathematics use their potential to use non-stereotypical cultural settings?* The author analyzes materials developed by Czech in-service teachers of mathematics for smartboards. She focuses on word problems and their cultural settings. In the paper, the author looks for the answer to the following question: How innovative electronic materials are as far as their cultural, non-mathematical content is concerned?

In the paper *Teaching aids and work with models in e-learning environments*, Kateřina Jančaříková and Antonín Jančařík pay attention to the question of use of models in teaching and learning and the pros and cons brought into this important domain by the using ICT. The term model is characterized very broadly so that it fits with different age levels of pupils. The attention is paid to linking models and real objects, one of important issues for successful use of models. The authors point out that the methodology for working with models in ICT environment is not a part of future teachers' curricula. The use of models in mathematics and biology is in the focus of the paper.

In the paper *GeoGebra materials for LMS Moodle focused on Monge projection*, Věra Ferdiánová introduces interactive materials for Monge projection, which are implemented into LMS Moodle, and shows results of a pilot research of influence of using these materials on students. The author created a collection of examples for Monge projection. Each example contains task, description of the construction, drawing, paper model and anaglyph version. Data from pilot testing showing that students' results when using this material were about 8% better in comparison to standard approach.

In the paper *Technology-capable teachers transitioning to technology-challenged schools*, Faiza Derbel presents a study of the situation of five teachers who took part in The Tech Age Teacher Project (TATP) in 2014. The question is, how the experiences from the training during the projects could be transformed back to the schools and day-to-day practice. The completion of any course is always only a first step towards proficient use of software, techniques or approaches.

We wish you an interesting read of the papers.

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