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eLearning challenges and new horizons

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Online Asynchronous Collaboration for Enhancing Teacher Professional Knowledges and Competencies

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Marina MARCHISIO, Alice BARANA, Michele FIORAVERA, Cecilia FISSORE
Dipartimento di Matematica, Università di Torino, Via Carlo Alberto 10, Torino, Italy
alice.barana@unito.it, michele.fioravera@unito.it, cecilia.fissore@unito.it, marina.marchisio@unito.it

Anna BRANCACCIO, Massimo ESPOSITO
Direzione generale per gli ordinamenti scolastici e la valutazione del sistema nazionale di istruzione, MIUR, Viale Trastevere 76/A, Roma, Italy
anna.brancaccio@istruzione.it, massimo.esposito24@istruzione.it

Claudio PARDINI
ISS Carlo Antii, Via Magenta 7, Villafranca di Verona (VR), Italy
direttore@carloantii.it

Sergio RABELLINO
Dipartimento di Informatica, Università di Torino, Corso Svizzera 185, Torino, Italy
sergio.rabellino@unito.it

Abstract: Teachers need, in a lifelong learning dimension, occasions that provide them with opportunities to reflect on the activities done by themselves, to learn how to use the newest and most advanced technologies in their teaching, to exchange ideas, to confront themselves on the updated didactic methodologies. Only in this way can they enhance their professional competences and keep the motivation for their job high. Online contexts seem to be the most appropriate option for in-service teacher training because teachers work full-time in school and, having personal and family responsibilities, it is difficult to find time for scheduled meetings. In this paper, we will discuss online asynchronous collaboration within the virtual community of the Italian teachers of Mathematics of secondary schools who participate to the national Problem Posting and Solving (PP&S) Project of the Italian Ministry of Education. One of the main goals of PP&S, which started in 2012, is to enhance teaching and learning Mathematics and Informatics using new methodologies and technologies. The community lives on an e-learning Moodle platform integrated with several tools. Using a multi-method approach, we analyse the online forum discussions among teachers and tutors collected in the last three years; in particular, we explore which kinds of activities they suggest to adopt in their real-world classes and the nature of the interactive processes activated in the community. This collaboration among teachers is a peer support and facilitates the process of transformation of practices and of construction of new professional knowledge and competences. Some implications for the training of teachers in pre-service are discussed.

Keywords: E-learning; In-service online teacher collaboration; Lifelong learning; Moodle; Teacher professional competencies; Virtual communities.

E-Learning in the Workplace: Why Employees May be Ineffectively Involved in e-Learning Practices to Accomplish Preferred Educational Outcomes

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Ramona MIHĂILĂ
“Dimitrie Cantemir” Christian University, Splaiul Unirii 176, Bucharest, Romania
mihaila.dccu@gmail.com

Aurel PERA
University of Craiova, Alexandru Ioan Cuza St. 13, Craiova, Romania
aurelpera@yahoo.com
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The central theme of eLSE 2018 is “eLearning challenges and new horizons”.

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