Ion ROCEANU
Editor

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New technologies and redesigning learning spaces

Book of abstracts

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eLSE 2019

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Ion ROCEANU

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"eLearning and Software for Education"

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Adapting STEM Automated Assessment System to Enhance Language Skills

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Abstract: Enhancing language skills is a duty for many institutions, schools and universities; Information and Communications Technology is nowadays supporting language teaching, heading also to the integration of foreigners. According to previous studies, the use of a Technology Enhanced Learning Environment can foster language competences through online tests. The goal of this paper is to show and discuss different typologies of automatically evaluated questions useful to learn languages and designed with an Automatic Assessment System, already successfully used for teaching STEM disciplines: Science, Technology, Engineering and Mathematics. This work has been carried out thanks to the collaboration between the Department of Mathematics and the Department of Foreign Languages. Five different typologies of questions are analyzed: "Combining sentence elements" asks to combine given elements to form at least three correct and meaningful sentences; "Find the mistake" asks whether a sentence is grammatically correct and to explain why; "The Target puzzle" asks to join words together using precise links; "Scrambled text" asks the student the correct sequence of sentences in a scrambled text; "The Encrypted Crossword puzzle" is a crossword puzzle without definition clues. Linguists consider these question types effective to develop language competences and have already used them profitably in traditional teaching and language learning. To engage the learner and increase motivation, we will develop an implementation where the questions are self-evaluated, always available, with immediate and interactive feedback. These tools could be used in online language courses and in all those teaching activities that are carried out remotely by the student alone. All questions are outlined with the explanation of the grading code and a triplet of descriptors; they describe the Performance, Requirements and Objectives of each question and allow further studies on automatic detection of the relatedness between different language learning objects, in order to construct adaptive language tests.

Keywords: Automated Assessment System; Language skills; Language learning; Ontology; Technology Enhanced Learning.

Language and Safety: The Benefits of Using Audio Visual Aids in Teaching Aviation English

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Abstract: Aviation English is unique in English for Specific Purposes (ESP) because in the aeronautical field, language is inseparable from safety. The passengers' lives and safety depend on the accurate communication between pilots and air traffic control officers (ATCOs), on the precision of their language. My paper puts forward the suitability and effectiveness of using audio-visual aids (video
The publications consists of 154 pages.

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