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Preface

Nowadays, the emerging methodologies for digital, interactive and project-based professional education are central development direction in training and formal education. To achieve this, it will be important to engage a wider community of educators, trainers, technical experts from a wide range of disciplines to improve their educational methodology. This issue supports these aspirations with several aspects which appear in the papers.

Ilona Heldal and Carsten Helgesen showing the Digital HealthLab which supports interdisciplinary projects in Engineering and in Health Education. The paper illustrates a number of benefits, but also difficulties with starting up a required educational module in an area needed to be developed at a university in Norway.

Robert Pinter and Sanja Maravić Čisar present the implementation of a Project-Based Learning (PBL) at Subotica Tech - College of Applied Science and the method of measurement of individuals' performance in teamwork. They applied the Agile project management (Scrum) and PBL approach to achieve the management of students' project and identify suitable metrics for measuring performance in the group at the level of the individual.

László Bognar et al. introduce the development of calculus courses and showing a 3D virtual learning environment applied for the Mathematics course of the University of Dunaújváros. Based on their experience the 3D learning environment is suitable however the efficiency depends on the technological background the students have.

Igor Fürstner et al. deal with the problem of developing a telepresence system at Subotica Tech. Their results showed that the developed system could have worked properly with the given structure, i.e. that this teaching approach, a project-oriented work involving students from different technical fields.

Csilla Marianna Szabó shows a research dealing with the early school leaving in secondary vocational education. According to the results the following factors are considered basic in dropout: student, family, peers, and school. Teachers and schools have a very important role in reducing school dropout.

Imre Petkovics describes two new ICT technologies that are being increasingly implemented in the process of digital transformation in higher education.

Radojle Radetića and Nándor Burány analyze details of a precision electric circuit and recommend this as laboratory project to open new ideas, gain knowledge and skills in practice.

Many thanks to Robert Pinter for his support!