

ICL Special Session – Call for Papers

Advancements in Engineering Education and Technology Research (AEETR)

Overview

Information and communication technologies underwent over the last few years a rapid development with consequences also for the sphere of education and upbringing. It is necessary to emphasize that this happened not only at the level of technological thinking. The reflection of the modern didactical trends takes place on the boundaries of the pedagogical, psychological, and sociological disciplines. The development is considerably accelerating in consequence of the ongoing technological changes and innovations. What is the real impact on the key and professional competences of the secondary school graduates? What do these competences follow? Do the education programmes reflect the demand of competences required by the industry 4.0 and the practice generally? Wherein is the present education reality determined in the sense of a broader conception of education technologies? Present-day time brings new technologies called as e-technologies. Communication in the traditional school has been concentrated on the direct verbal and nonverbal communication. Currently, electronic communication enters into education, e.g. E-mail, Chat, ICQ, Skype, WhatsApp, Viber, LinkedIn, Facebook, Cloud, LMS systems, Webinars, Educasting, Podcasting. Teachers have to accept the present situation but also take a look further ahead on the development of new technologies that are suitable and meaningful for application into the education reality. It is possible to estimate that expansion concerns primarily the m-learning personal education environment, MOOC, new objects in the distance education, wiki, blogs, RSS, use of the licence Creativecommons, sharing of electronic study supports in the cloud, u-learning, t-learning, educasting, seamlesslearning, social webs, omnipresent clever telephones and tablets, extended mobile reality, and in general a shift towards mobile education technologies. To the fore come new skills, frequently called as skills for the 21st century.

Topics

- *Digital Competencies of Social Sciences Teachers*
- *Digital Technology in Education and Training*
- *Engineering Education for Industry 4.0*
- *Research and Development of New EDU Technology and Didactic Media*

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