EDITORIAL

The second volume of the quarterly scientific journal *Education – Technical Education – Information Technology* 2018 consists of six subject chapters.

The first part, entitled the *Selected Problems of Computer Education in the Social Dimension*, opens with an article about contemporary users of new technologies, called Digital Nativ, often considered as digital experts due to permanent contact with the Internet. However, just being in the virtual world does not pretend to be an advanced user of new technologies – the author rightly points out that something more is needed – systematic and in-depth learning. In conclusion, we have included an article on the challenges facing education for security in the age of the information society.

The second part, entitled the *Selected Problems of Computerisation of Early School Education*, contains studies related to the problem of computer support for dyslexia diagnosis. In recent years, the percentage of the population with a diagnosed problem of specific learning difficulties has increased, hence the computer program supporting speech therapists offers great possibilities of better diagnosing and solving problems of dyslexics. The article that concludes this part compares herbarism with the current of the so-called "new upbringing", which includes, among others, the pedagogy of Maria Montessori – these reflections have been referred to the contemporary knowledge of how to the brain of a child learns.

The third part, entitled the *Selected Problems of ICT Applications in Education,* opens with an article which presents a wide range of issues related to infographics from the point of view of their creation in order to effectively visualize information, data and knowledge in order to achieve the assumed pedagogical goals. This section concludes with an article on the use of sensors for "machine vision", i. e. the development of automatic image recognition devices.

The fourth part contains research papers on the *Selected Problems of Adult Education*. The first paper presents issues related to non-formal adult education as a basic field of education in the modern world, as well as emerging problems and new pedagogical phenomena. At the end of this part we present a study showing the original test environment with an experimentally assessed impact of the use of Q-learning programs.

Part Five, entitled the *Selected Problems in Teacher Education*, opens with a study on how to prepare teachers of technology in terms of communication

skills to ensure better interaction with students in the teaching process – after all, the generation of today's primary school students is the 'Z' generation, that is, the generation of the Internet and a smartphone. At the end of the article, the basic question for the contemporary school was asked: *How to change the thinking about the education of its subjects, so that it would become a joint initiative and effort to give satisfaction and lead to development?*

The sixth part, the *Selected Problems of Technical Education*, contains an article presenting a review of the issues of civilization changes, stressing the need for in-depth reflection on the perspectives of development of technical and civilization phenomena important for the quality of life of each person, which translates into challenges for the teleology of education and learning strategies that should appear in the Polish education system. The last research paper presents the methodology of engineering training based on the combination of practical and simulation laboratory, supplemented by accounting elements, and implemented on the example of the system of an astabatic multivibrator.

We encourage our readers to critically analyze and prepare polemical texts in relation to the various topics of educational research addressed in this quarterly journal.