



István Juhos received his PhD degree in computer science from the University of Szeged in Hungary. He has a number of teaching and engineering degrees in computer science and mathematics, moreover he held various courses in these topics at the University of Szeged for 15 years. Besides leading numerous theoretical and applied research and development projects and publishing scientific papers, he is member of international journals and conference committees. Due to the invitation of his friend Zsolt Lavicza, in 2011, István joined the GeoGebra community to improve STEM education by using technology. Currently, he is the scientific director of GEOMATECH, a Hungarian countrywide mathematics and science educational project based on GeoGebra.

Abstract:

The GEOMATECH project, funded by the European Union, is a large-scale mathematics and science research, curriculum development, countrywide teacher training and dissemination programme for K12 education in Hungary. Its aim is to create free access interactive teaching and learning materials fostering learning by doing, based on experimentation and discovery of the students (that is consequent trials with immediate feedbacks). The materials also involve methods of highly-respected Hungarian teaching traditions by Pólya, Varga and Dienes, as well as successful technology integration programmes from other countries. The development is based on GeoGebra, mobile and sensor technologies and collaborative techniques. Besides creating contents for mainly GeoGebra, the project improves the GeoGebra software capabilities and provides a learning management system by extending GeoGebraTube functionality. The talk will briefly overview the goals and results of the project.