The role of visualisation in the development of an effective classroom technique for teaching numerical algebra

(Talk)

Anton Vrdoljak
Faculty of Civil Engineering - University of Mostar, B&H
anton.vrdoljak@gmail.com

This talk will present the role of visualisation in development of an effective classroom technique for teaching numerical algebra within higher education. An accent was given on the case of technological tools usage, such as GeoGebra. During teaching of numerical mathematics, especially numerical algebra, the subjects regarding nonlinear equations and numerical methods are in the focus. The creation of software routines or programs for solving nonlinear equations should not be difficult, but students still make various errors. Technological tools in teaching practice, visualisation and good motivational examples, which illustrate numerical methods for equation solving, may result in better and more effective teaching activity, and may help in development of a very current and effective classroom technique for finding of roots. Those findings and general reflections has been supported and concluded in teaching experiment, which was recently kept at Faculty of Civil Engineering - University of Mostar.

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