

3DvizualizationcampusbuildingsAlbertov

Abstract

This work deals with theoretical and practical aspects of 3D countryside model creation and housing development with the help of geoinformation technologies, concretely programme equipment ESRI ArcGIS and Google SketchUp.

The first part of the work brings a general overview concerning the problematics of 3D simulating and the possibilities of 3D information representation. It also includes a survey of already elaborated projects focused on visualisation of built up premises. However the crucial part is the practical part of the work, which deals with the creation of 3D model of the University Campus Albertov in Prague. The source data and used software are analysed first of all, followed by the description of digital terrain model creation and the models of buildings themselves. The final part focuses on the possibilities of final visualisation and output creation.