

Lecture:

New geomatics technologies for cultural heritage documentation

Abstract

In the last decade, photogrammetrical technology has been changed dramatically. New technologies like IBMR (image based modelling and rendering) together with low-cost aerial imaging based on drones are nowadays very popular. Using of new technologies is supported on advanced computing technology and sophisticated software's. Data from modern laser scanners combined with the IBMR photogrammetry give us the opportunity to create real 3D models of historical objects and structures automatically. Visualisation of these models can be newly in virtual reality (VR). Aerial laser scanning helps to uncover many unknown objects and structures in the landscape from the past. For mapping and archaeology, geophysical instruments are often used for non-invasive underground research.

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