

Integrating Modeling and Visualization Hands-on Workshop

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Heiko Baumann will use the presentation of the Haydelberga project, as presented in this proceedings in form of a short summary, to show the application of Sketch-up as part of the visualization work. *Haydelberga* is an interdisciplinary project developed from a co-operation of architects, historians and software-developers with the target to advance existing results in the field of virtual reality (VR) and to allow the new generated products to be applicable in different fields of investigation and economy.

The historic simulation of the whole ancient city of Heidelberg of the year 1620 is a pilot project- built exemplarily in interactive real time and in 3D-stereo.

Description of Case Study

At first model structures were developed for the product (for data and enquiry to the generation of mass models and block models and their further modelling up to the transfer and processing in the VR-system).

For modifying the standard softwares several software modules were developed, which guarantee an optimized connection for the continuousness from the enquired and processed data of the different data compounds across the modelling of the data up to the 3D-visualisation. The giant data amounts necessary for the extensive 3D-modelling and the interactive possibilities of presentation (eg. animated simulations) are excellently transposed by specific adaptations and structures.

The historic data for the project *Haydelberga* were researched by cultural scientists and historians and converted into virtual reality in co-operation with and by architects and software specialists.

For the converting of the researched data and the developed data structure into the entire model the *@Last Software* and the *awaron ag* could be gained as co-operation partners in the domain of software.

@Last Software

@Last Software is the manufacturer of Sketch Up, a small and powerful 3D-real time modelling software with excellent integration. Sketch up guarantees a fast and effective use by its intuitive usability and powerful tools.