

CHNT 24: Visualizing Hypotheses (Vienna 4-6 Nov 19)

City Hall, Vienna, Nov 4-06, 2019

Deadline: Jun 30, 2019

Dr. Christiane Clados, Dr. Heike Messemer

Visualizing Hypotheses: Practical Handling of Uncertainty in Digital 3D Models

The call for papers for the 24th conference on Cultural Heritage and New Technologies (CHNT 24), taking place on November 4-6, 2019 in Vienna, is now open.

Short presentations of 10 minutes are welcomed for the round table Visualizing Hypotheses: Practical Handling of Uncertainty in Digital 3D Models, which is organized by Christiane Clados (University of Marburg) and Heike Messemer (Universität Würzburg, Urban History 4D) as members of the working group "AG Digitale Rekonstruktion".

The aim of this round table is to bring together scholars from different disciplines to discuss how hypotheses and uncertainties are visualized in scientific 3D reconstructions and how this can be handled in the future:

Digital 3D reconstructions of cultural artefacts, historical characters and architecture contribute to a better understanding of cultural heritage. In the broad user community, experts from various fields such as architecture, archaeology, art history, palaeontology, forensic anthropology, museology generate 3D reconstructions in order to gain insights into no longer existing evidence. Therefore, such reconstructions are a critical tool for the "translation" of scientific data into visualizations, which make these accessible to the expert community and the general public.

However, due to knowledge gaps within the diverse set of underlying sources, uncertainties are part of nearly all digital models. As user communities handle the visualization of hypotheses in 3D reconstructions differently, the situation is still unsatisfactory. When can (a part of) a reconstruction be regarded as being hypothetical in the first place? How are uncertainties indicated visually? So far, no common principles for the visualization of hypotheses within 3D models have been established, leaving experts and practitioners with no guidance on hypothesis modeling.

The aim of this roundtable, an initiative of the working group "AG Digitale Rekonstruktion", is to discuss these issues from different disciplinary perspectives. Presenters are invited to address the following questions: How shall we deal with uncertainties in digital 3D reconstructions of cultural heritage architecture, cultural artefacts, individuals, and fossils? How can hypotheses be visualized in presentations for experts and the general public? What is the state of the art, and which factors influence the visualization of hypotheses? What can be the methods/designs/visions for the future?

The deadline for submitting abstracts is June 30, 2019.

Reference:

CFP: CHNT 24: Visualizing Hypotheses (Vienna 4-6 Nov 19). In: ArHist.net, Jun 9, 2019 (accessed Sep 17, 2025), <<https://arthist.net/archive/21029>>.