The Cluster of Excellence
Understanding Written Artefacts
cordially invites you to the workshop

And Now in 3D: On AI and Digital Twins and Their Application on 3D Data

Thursday, 24 November 2022, 4:00 pm – 6:00 pm CET

Organised by Eric Werner

ZOOM Event

Registration:
https://www.csmc.uni-hamburg.de/en/register-workshop32

The last decade was coined by an unprecedented acceleration in computing speed, data generation that gave rise to a wide range of AI-powered applications, visualisation techniques, and platforms. In the last couple of years, Machine-/Deep Learning approaches are more and more applied to 3D data that could eventually open new approaches to applications in the humanities. Similarly, mature 3D engines paved the way to real-time applications that constitute a wholly new level of virtual workflows in many industries. The workshop will shed light on selective topics that increasingly transform industries and scientific exploration, ranging from the application of Deep Learning on 3D data to Digital Twins.

Programme

Thursday, 24 November, 4:00 pm – 6:00 pm

Chair: Eric Werner (CSMC, Universität Hamburg)

4:00 – 4:10   Introduction

4:10 – 4:40   Zorah Lähner (Computer Vision Group, Universität Siegen)
3D Object Correspondence

4:40 – 5:10   Ji Hou (Meta)
Localizing and Reconstructing 3D Objects in RGB-D Scans

5:10 – 5:40   Frank Weichert (TU Dortmund),
Cross-Repository and Cross-Domain Analysis of Cuneiform Tablets

5:40 – 6:10   Sorin Hermon (The Cyprus Institute)
Digital Twins for Cultural Heritage: Current Developments and Future Perspectives