



## Ringvorlesung SoSe 2017

### **DIE MASCHINELLE VERARBEITUNG NATÜRLICHER SPRACHE - VON DER WISSENSCHAFT ZU EINEM ALLGEGENWÄRTIGEN WERKZEUG -**

**Technological innovation and its enhancement of cultural heritage.  
A case study: the city of Pavia in the second half of the 16th Century**

**Prof. Dr. Virginio Cantoni**

Computer Vision and Multimedia Lab, University of Pavia

**Philurturm-Hörsaal F, Von Melle Park 6**

**Dienstag 04.07.2017, 18 Uhr c.t.**

#### **Abstract:**

The technological revolution which has completely transformed social relations and which has enabled communication and sharing of texts and documents, often in multimedia formats is also rapidly transforming the field of art and cultural heritage management.

Pavia is an ancient historical city whose appearance has changed over time. Old rural areas have given way to new ones and buildings have been demolished and replaced with new structures.

The 3D virtual reconstruction of the city of Pavia in the second half of the 16<sup>th</sup> century is mainly derived from the fresco attributed to Bernardino Lanzani of 1522, which can be found in the Church of St. Theodore.

This reconstruction has three goals: to create an interactive virtual environment in which buildings, churches and monuments are individually presented, and contextualized in situ; to reproduce the city's urban fabric in its entirety, at reduced resolution, in keeping with processor power, so that the viewer can move around, touring the city as depicted in the fresco; to develop an app for smartphones and tablets providing access to information about the area displayed, which in particular compares existing buildings to those reconstructed over time.

mit der Unterstützung von:



Charles University  
Prague



SOFIA UNIVERSITY  
"St. Kliment Ohridski"



**Organisatoren:** Prof. Dr. Wolfgang Menzel • (Dept. Informatik / AB. NATS) • Dr. Cristina Vertan (Arbeitsstelle Computerphilologie)

**Kontakt:** menzel@informatik.uni-hamburg.de / cristina.vertan@uni-hamburg.de

**WWW:** <https://www.aww.uni-hamburg.de/oeffentliche-vortraege/programm/42-maschinelle-verarbeitung-sose17.html>