

Programme *Joint Seminar*

VUT-PSU

Sept. 27th – Oct. 2nd, 2012

Thu., 2012-09-27

10:00 – 10:15 **Address of Welcome by Vienna University of Technology**

10:15 – 11:30 **Session 1: Introduction**

- Robert Sablatnig: Can Computer Vision Solve Problems in Arts and Philology
- Sergey Kornienko: Historical and Cultural Heritage and Information-Communication Technologies: Conservation, Visualization, Research

11:30 – 11:45 Coffee Break

11:45 – 12:45 **Round table discussion (Chairs: S. Kornienko and R. Sablatnig)**

- General Cooperation: Possibilities between Russia and Austria

12:45 – 14:00 Lunch Break “Wiener Wiaz’Haus”

14:00 – 15:30 **Session 2: General Strategies**

- Heinz Miklas; Melanie Gau: Further Technical Approaches to Manuscript Analysis and Reconstruction Suggested by Philologists

15:30 – 16:00 Coffee Break

16:00 – 17:30 **Session 3: Creation of electronic models for cultural heritage objects**

- Sergey Kornienko: Old-written and Black-letter Texts Recognition Software
- Albert Kavelar: Reading of Text on Ancient Coins

19:00 – 23:00 Invitation: Workshop Dinner “Waldviertlerhof”

Fri., 2012-09-28

10:00 – 11:30 **Session 4: Document Analysis**

- Angelika Garz: Using Local Features for Efficient Layout Analysis of Ancient Manuscripts,
- Markus Diem: Character Segmentation and Reconstruction

11:30 – 11:45 Coffee Break

11:45 – 13:15 **Session 5: Visualization and Publication**

- Yuriy Aydarov: A New Heuristic Text Orientation Recognition Algorithm
- Dmitry Reshetnikov: Cross-platform software on the basis of technology Oracle for work with the historical data

13:15 – 14:45 Lunch Break “Wieden Bräu”

14:45 – 16:00 **Session 6: Case Studies on Visualization and Publication**

- Sergey Kornienko: Informations-System Russische Parlamentarier am Anfang des 20. Jahrhunderts als Grundlage der prosopografischen Forschung

16:00 – 16:30 Coffee Break

16:30 – 17:30 **Round Table Discussion**

- Results and plans for further co-operation

Mon., 2012-10-01

10:00 – 11:30 **Session 7: Case Studies on Document Acquisition and Analysis**

- Florian Kleber: Multispectral Acquisition and Analysis of Ancient Documents
- Fabian Hollaus: Inpainting of Occluded Regions in Handwritings
- Manfred Schreiner: Documentation of Watermarks and Material Analysis of Pigments and Inks in Paper by X-ray Radiography, X-ray Fluorescence Analysis (XRF) and Fourier Transform Infrared Spectroscopy (FTIR)

11:30 – 11:45 Coffee Break

11:45 – 13:00 **Session 8: Case Studies on Document Acquisition and Analysis**

- Demonstration and hands on practice of CVL technologies
- Manfred Mayer: Searching for Traces

13:00 – 14:30 Lunch Break “Wieden Bräu”

14:30 - 17:30 Demonstration of X-ray radiography for documentation of watermarks, X-ray Fluorescence (XRF) and Fourier Transform Infrared Spectroscopy (FTIR) for analysis of pigments and inks – *Institute of Natural Sciences and Technology in Art, Academy of Fine Arts, Schillerplatz 3, 2nd floor, room no. 201*

Tue., 2012-10-02

Excursion to the *VESTIGIA Manuscript Research Center and Cultural Heritage Restoration & Digitization Laboratory* at Graz Karl Franzens University Library (headed by Manfred Mayer/Erich Renhart).