International Conference on Natural Sciences and Technology in Manuscript Analysis

Centre for the Study of Manuscript Cultures (CSMC)
University of Hamburg
4-6 December 2013

Wednesday, 4 December 2013

Session I: Visual Analysis

14:00 Welcome
14:15 L. Wolf (invited)
   Automatic tools for historical manuscript analysis
15:00 B. Gottfried and M. Lawo
   Diptychon: A transcription assistant system for the separation of glyphs in medieval manuscript texts
15:25 H. Busch, S. Chandna, M. Embach, C. Krause, C. Moulin, A. Rapp, R. Stotzka, D. Tonne and P. Vanscheidt
   Automatic tagging of medieval manuscripts
15:50 Coffee break*
16:20 L. Dinges, A. Al-Hamadi and M. Elzobi
   Synthetic based validation of segmentation of handwritten Arabic words
16:45 A. Garz, M. Liwicki, R. Ingold
   HisDoc 2-0 - towards computer-assisted paleography
17:10 C. Stokoe, G. Ferrario and B. Outhwaite
   In the shadow of Goitein: Text mining the Cairo Genizah
18:00 Reception*
Thursday, 5 December 2013

Session II: Image Analysis

09:00  R. Easton and D. Kelbe (invited)  
*Statistical processing of spectral imagery to recover writings from erased or damaged manuscripts*

09:45  L. Rothacker and G. A. Fink  
*Segmentation - free word spotting in historical documents*

10:10  C. Burrows and G. Jones  
*Hands off! Using heritage imaging to reveal the secrets of manuscripts*

10:35  Coffee break*

11:05  A. Alexopoulou and A. Kaminari  
*The evolution of imaging techniques in the study of manuscripts*

11:30  K. Chen, A. Garz, H. Wei, M. Liwicki, R. Ingold  
*DIVADIA - a semi-automatic toolkit for labelling historical document image*

11:55  W. Pantke, A. Haak, V. Märgner  
*Color segmentation for historical documents*

12:20  M. Gau, F. Hollaus, F. Kleber, R. Sablatnig  
*Digital imaging, enhancement, and processing of historical manuscripts*

12:45  Lunch

Session III: Materials Analysis

14:15  D. Oltrogge (invited)  
*Dinten, golit and rubrica. The analysis of manuscript materials – methods and (art) historical questions.*

15:00  S. Fiddyment, C. Checkley-Scott, M. Garrison, K. Rudy, B. Holsinger, C. Webb, A. Fairburn, C. Dand, K. Rowsell, D. Bradley, M. Teasdale, A. Curtis and M. Collins  
*My library and other animals: How non-invasive techniques can uncover the secrets hidden in parchment*

*Challenges in the analysis of purple codices*

15:50  Coffee break*

16:20  M. Aceto, A. Agostino, G. Fenoglio, M. Gulmini, A. Idone, A. Benotto, M.L. Russo and F. M. Abate  
*The richness of the painting materials used on Persian manuscripts: a non-invasive investigation*

16:45  A. M. Rafi and T. A. Afshari  
*Material analysis of Safavid Isfahani papers*

17:10  A. Masic  
*Quantifying deterioration of natural fibers by polarized Raman spectroscopy: the case of collagen in Dead Sea Scrolls*

17:35  G. Adami, M. Bronzato, P. Calvini, C. Federici, M. Zanetti and A. Zoleo  
*16th century European papers. Survey on degradation mechanisms*

20:00  Dinner
**Friday, 6 December 2013**

**Session IV: Interdisciplinary Research**

- **09:00** D. Stökl Ben Ezra (invited)
  *Interdisciplinary perspectives from material and computer sciences on / from the Dead Sea Scrolls and beyond*

- **09:45** L. Glaser, D. Deckers, K. Appel, M. Borchert, A. Rothkirch
  *XRF scanning investigation of parchment palimpsests*

- **10:10** Coffee break*

- **10:40** C. MacDonald, A. Janke and B. Povukova
  *Uncovering the Musical Secrets of the Florentine Campione dei Beni, 1504, Palimpsest (ASL 2211)*

- **11:05** M. Geissbühler and E. Kindzorra
  *Combining codicology and X-ray spectrometry to unveil the history of production of the Codex Germanicus 6*

- **11:30** R. Herzog and A. Solth
  *Visual analysis of manuscripts at the CSMC: Projects and tools*

- **11:55** Conclusions

* Reception and coffee breaks are offered by CSMC