

GI Annual Meeting 2010

Workshop
eHumanities - How does computer science benefit?

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Natural Language Processing / CS, University of Leipzig

In recent years the text-based humanities and social sciences experienced a synthesis between the increasing availability of digitized texts and algorithms from the fields of information retrieval and text mining that resulted in novel tools for text processing and analysis, and enabled entirely new questions and innovative methodologies.

The goal of this workshop is to investigate which consequences and potentials for **computer science** have emerged in turn from the digitization of the social sciences and humanities.

The workshop starts with a series of four invited talks by leading researchers in the field of eHumanities. Their presentations will revolve around the question "How can computer science benefit from eHumanities?". The afternoon will focus on demonstrations and discussions of different solutions to an *open challenge*, which aims to contrast and compare methods used in computer science with those in the humanities.. In this section, members from both fields of the eHumanities community will apply their own methods and tools on data of their choice to solve a set of previously announced problems. The exact challenges will be made public with the official announcement of the workshop and will be focused on current issues of unsupervised semantic analysis of text which are relevant to computer science, e. g. the handling of unexpected relations and associations, the treatment of rare textual patterns, or the merging of heterogeneous sources.

The date for the workshop has been fixed on Thursday, September 30th, 2010. Prof. Dr. Stefan Wrobel (Director IAIS, Bonn/St. Augustin), Dr. Helge Kahler (Federal Ministry of Education and Research - Department of Humanities), Peter Wittenburg (MPG Nijmegen - Project CLARIN) and Prof. Dr. Gregory Crane (Tufts University, Boston - Project PERSEUS) will be the speakers for the morning session.

The planned schedule is as follows:

9.00 - 12.30 Talks:

"How can computer science benefit from eHumanities?"

9.00 - 10.30

Talks section I

Gerhard Heyer, Marco Büchler: *eHumanities - How does computer science benefit?*, Natural Language Processing Group, University of Leipzig, Germany.

Peter Wittenburg¹, Erhard Hinrichs², Dan Broeder¹, Thomas Zastrow²: *eHumanities - can we manage the complexity?* ¹MPI für Psycholinguistik, Nijmegen, Netherlands, ²University of Tübingen, Germany.

Gregory Crane: *The Work of the Humanities and Digital Philology*. Editor-In-Chief Perseus Project, TUFTS University, Boston, USA.

10.30 – 11:00

Coffee break

11.00 – 12.30

Talk section II

Sven Becker, Marion Borowski, Melanie Gnasa, Kai Stalman, Stefan Wrobel: *eHumanities: Intelligent Analysis and Information Systems in Humanities and Cultural Sciences*. Fraunhofer Institute for Intelligent Analysis and Information Systems (IAIS) and University of Bonn, Germany.

Helge Kahler: *eHumanities from a funder's perspective*. Federal Ministry of Education and Research, Germany.

Open discussion 30 min.

12.30 - 14.00

Lunch break

14.00 - 17.30

Semantic challenge: qualitative versus quantitative methods

14.00 - 15.30

Team 1: Marie-Christine Bornes Varol¹, Marie-Sol Ortola², Jean-Daniel Gronoff³: *Specific polysemy of the brief sapiential units*. ¹Inalco, Paris, ²Université Nancy, ³Dir. Méthodologies sémantiques annotatives, DualSemantics, Paris, France.

Team 2: Ingelore Hafemann, Simon Schweitzer: *The Thesaurus Linguae Aegyptiae - an interplay between an electronic corpus of Egyptian texts and the Dictionary of Ancient Egyptian Language*. Berlin-Brandenburg Academy of Sciences and Humanities, Germany.

Team 3: Marco Bächler, Gerhard Heyer: *Salton and Wittgenstein in the Humanities: About Semantics in Philosophical Texts*. Natural Language Processing Group, University of Leipzig, Germany.

15.30

Coffee break

16.00 - 17.00

Team 4: Christoph Schlieder: *Digital Heritage: Semantic Challenges of Long-term Preservation*. Computing in the Cultural Sciences, University of Bamberg, Germany.

Team 5: Alexander Mehler, Rüdiger Gleim, Ulli Waltinger & Nils Diewald: *Time Series of Linguistic Networks*. Text Technology, University of Bielefeld, Germany.

17.00 – ca. 17:30

Round table with subsequent open discussion

Estimated number of participants: 40

Special requirements: internet access, beamer, stage/podium for round table