CEDIFOR: Centre for the Digital Foundation of Research in the Humanities, Social, and Educational Sciences

Goethe-Universität Frankfurt
Technische Universität Darmstadt
Deutsches Institut für Internationale Pädagogische Forschung

Approved under the name of Frankfurter eHumanities-Zentrum (FeHZ)

CEDIFOR: Vision

- We serve as a primary contact point for eHumanities projects in universities, research institutes, archives, libraries, and museums in the Rhein-Main area and beyond
- We cover research projects in the humanities, social sciences, and educational science
- Our results are sustainable and our services are long-term
- We work with text, image, video, and audio
- We work and publish nationally and internationally
- We base our work on the results of the LOEWE Research Cluster "Digital Humanities" (2011-2014)

Innovative Research Conceptions

Consulting and Supervising Novel Research Concepts
- Development of a system for computer-supported processing of multimedia spaces in the context of the arts
- Development of an ontology for the structural annotation of image-text spaces ("Guided Trails")
- Development of an exploratory system to be integrated with OHM Faster, which enables semi-automated intermedia and crossmedia annotation
- Elaborating and addressing research questions dealing with interoperability by the help of highly structured corpora

Research Questions:
- How well can we predict various traits from text automatically? (e.g., extraversion vs. introversion)
- Which aspects of language usage can be indicators for certain personality types, mood, attitudes, etc.? (e.g., do depressed people talk more about themselves? do extroverts talk more in general?)
- How robust are the results across different data sets? (e.g., do gender differences in style hold for both school essays and social media?)

Personality Analysis Based on Linguistic Attributes

Goals:
- Creation of a research agenda to ensure reproducibility
- Organization of workshops, providing a technical research infrastructure
- Development and publication (Workshop, Best Practices)

Challenges

- Researchers in humanities have difficulties to manage the coordination, interpretation, and linking of growing amounts of metadata
- Lack of accessible tools for the analysis of multimedia data (image, video and audio)
- Error rates in applied Natural Language Processing methods are too high in practice

First Year Pilot Projects

History, Semantics, Concurrency Analysis, and Curation
- Extension of the Historical Semantics Corpus Management tool
- Development of a digital, electronic dictionary for classical and literar forms of Latin
- Online editions in cooperation with the Rheinisches Gedichtarchiv

Computer-Supported Discovery of Metaphors
- Content-based discovery of metaphors
- Computer-supported visualization and processing of the data
- Theory and content-based classification of metaphors

Research Environments
- Annotation: ClarisWeb, OHM Faster
- Processing: HTML-CATE, OHM Faster, Intermedia Desktop
- Discovery: Semantics Grid

Assignment and Linking of (Meta-)Data
- Based on the Lexical Markup Framework (LMF)
- Based on the Semantic Web standard (OWL, RDF)

Development and Analysis of Multimodal/Multimedia Data
- Image: tragebil
- Video: Audio: CLASH

Infrastructures
- DARIAH-DE
- CLAIMS-0

Technical Innovation

Inventing Small Tools for E-Humanities
- Development of tools for research projects
- Creation of shared usage of research subjects, data, and tools
- Creation of sustainable results, workflows, and best practices

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Image Sources:

http://commons.wikimedia.org/wiki/File:CDA1_56b1_luxus_museum.jpg

Contact:

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