



PhD Program between the Freie Universität Berlin (FUB) and the China Scholarship Council (CSC)

Open PhD position for CSC scholarship candidates 2015

The PhD position is only offered to Chinese PhD candidates for application in the framework of the FU-CSC Program.

<u>Department/Institute:</u>	Institute of Computer Science, Web Science- Human Centered Computing
<u>Subject area:</u>	social computing, human computer interaction, artificial intelligence, and machine learning
<u>Name of Supervisor:</u>	Prof. Dr. Claudia Müller-Birn
<u>Number of open positions:</u>	1
<u>Project title:</u>	Mixed-Initiative Interaction in Collaborative Semantic Annotation Systems

Project description:

Within the neonion project, we explore new interaction approaches for collaboratively creating semantic annotations in the context of humanities and arts. Especially when using semantic annotation software, challenges accumulate for the user in regards of the complexity of the underlying semantic vocabulary. We aim to provide a completely alternative thinking in order to develop an innovative and - most importantly - intuitively usable software.

Semantic technologies cannot be easily understood by a non-technical user. It is, therefore, necessary to balance the amount of needed and necessary information. We build on existing research of areas such as human computer interaction and artificial intelligence, to combine them purposefully and translate our insights to the scientific sense-making process when annotating text.

The goal of the Ph.D. project is to design, implement, and evaluate various mixed initiative interaction approaches, in which in the most simple scenario two agents interact: a human and an intelligent system. Mixed initiative refers to a flexible interaction strategy in which human and intelligent agents collaborate efficiently to archive the human agents goal – the semantic annotation of documents. One focus of this research work is also to use learning models that allow the intelligent agent to learn from the user's activities and therefore to improve its reasoning.

Language requirements:

Doctoral thesis can be written in English but intermediated level of German language are required for integrating with existing research processes in the HCC.lab

Academic requirements:

BA and MA in Computer Science with experiences in at least two of the aforementioned subject areas

Link to professor and further information:

Please note:

In a first step the complete application should submit to the Beijing Office for evaluation by January 4th. Please don't contact the professor before. She will get in contact with you after having received the complete application in January.