5 PhD scholarships in new graduate college available at Heidelberg University

The Research Topic of the new PhD graduate school (Research Training Group, RTG) is

CrowdAnalyser
Spatio-temporal Analysis of User-generated Content

A key feature of the Web 2.0 is that data is voluntarily provided by users on the Internet through portals such as Wikipedia, YouTube, Flickr, Twitter, Blogs, OpenStreetMap, and various social networks at an unprecedented scale and staggering rate. The objective of the college is to develop novel methods and approaches towards the quality-oriented analysis and exploration of crowdsourced Web 2.0 data.

Key Facts:
- Joint Graduate School between the Institute of Computer Science http://www.informatik.uni-heidelberg.de/ and the Geoinformatics Research Group, Department of Geography, http://giscience.uni-hd.de/ at Heidelberg University
    o affiliated with the Interdisciplinary Center for Scientific Computing (IWR) http://www.iwr.uni-heidelberg.de/
- Funded by the Landesgraduiertenförderung Baden-Württemberg
- Scholarships are 1 200 Euro per month plus 110 Euro per month for travel and other costs.
    o additionally there is support for children between 250 and 350 Euro per month.
- For more information on the formal regulations, see http://www.graduateacademy.uni-heidelberg.de/stipendien/strukturiert/lgfg_kollegs_en.html

Potential Research Topics include (but are not limited to):
- Extraction and enrichment of event-data
- Real-time prediction and finding of alternative routes
- Extending visual object recognition with textual information
- Improving OpenStreetMap data through machine learning
- Crowdsourcing 3D: Fusion of 3D and dynamic geodata from technical and human sensors

The **selection** of scholarship holders will be based on quality of the candidates and a personal interview for invited candidates. We welcome the application of women in particular. The graduate college and Heidelberg University aim at providing best possibilities for combining research and family affairs.

Requirements:
- MSc in Computer Science, Geoinformatics, Geography, Mathematics, or related area
- Background in one or more of the following areas: data management, data mining, spatial analysis, geocomputation, text mining, Web 2.0, Computer Vision, statistical pattern recognition,
- Demonstrated programming experience
- Excellent English skills
- Excellent communication & organizational skills

Principal Investigators:
- Prof. Dr. Alexander Zipf (*Speaker*) e
- Prof. Dr. Michael Gertz
- Jun.-Prof. Dr. Björn Ommer
- Jun.-Prof. Dr. Bernhard Höfle

Applications shall be directed to Ms. Bettina Knorr (bettina.knorr@geog.uni-heidelberg.de , http://giscience.uni-hd.de/) until **August 15th** 2012 in digital form. Early applications are welcome. The application shall include a detailed CV including grades, technical expertise, letters of reference and list of publications as well as a short motivation statement (<1 page) addressing the preferred topic of the PhD.

We offer a stimulating research environment in motivated young teams with support by several PostDocs and affiliated PhD students. Heidelberg University is one of the top ranked universities in Germany. http://www.uni-heidelberg.de/university/rankings/index.html