PhD student:

Visualization and collaborative analysis of document collections and extracted knowledge, for data journalism

Job Summary

Open position for a PhD student in the area of collaborative data analysis and visualization. The work will be conducted in Paris France, within the ILDA Inria team and the Université Paris-Sud.

Description:

One of the challenges data journalists face today, is how to organize and understand large document collections, such as existing news articles and media libraries, to help them infer new knowledge. Their task often involves collaboratively inspecting and analyzing these heterogeneous information sources.

Our multidisciplinary project (iCoda) stands at the crossroad of multiple research fields— visualization, content analysis, data management, knowledge representation, and of course data journalism. It is a joint project between multiple Inria teams (Graphik, Linkmedia and Cedar), and journalist organizations and news agencies (le Monde, Ouest France, AFP).

The goal of the PhD is to explore different ways to visualize and interact with knowledge extracted automatically from very large heterogeneous document collections. These interactive visualizations will include approaches to collaboratively analyze and organize content, and to interactively update and validate the extracted knowledge. User evaluation sessions (workshops, interviews, tests) with data journalists will be part of the work, in order to validate the visualization designs. If the candidate is interested, the designs could extend to the use of new collaborative platforms, such as high-resolution wall displays and tabletops.

The student will be working with visualization researchers, but also researchers and engineers in data analysis that will provide the tools for the automatic analysis. The automated analysis part of the project has started, so the PhD student will have immediate access to data and users.

Requirements:

A Master of Science in computer science or closely related field is required to enter in the PhD program. Prior focus on visualization and experience in programming are also required. User-study experiences, and French knowledge are a plus.

Applications must include a detailed CV/resume, information on educational background, a brief description of practical work and research experience in computer science, and a short statement of motivation and goals.

Start time is estimated for Sept 2018.

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Collaborative platforms:
http://digiscope.fr/en/platforms/wild
http://digiscope.fr/en/platforms/wilder