Brief Bio and (PR)$^2$: Problems & Pitches – Rants & Raves by Katy Börner

Self Introduction

Katy Börner holds a MS in Electrical Engineering from the University of Technology in Leipzig, 1991 and a Ph.D. in Computer Science from the University of Kaiserslautern, 1997. She is the Victor H. Yngve Professor of Information Science at the School of Library and Information Science, Adjunct Professor in the School of Informatics, Core Faculty of Cognitive Science, Research Affiliate of the Biocomplexity Institute, Fellow of the Center for Research on Learning and Technology, Member of the Advanced Visualization Laboratory, and Founding Director of the Cyberinfrastructure for Network Science Center (http://cns.iu.edu) at Indiana University. She is a curator of the Places & Spaces: Mapping Science exhibit, http://scimaps.org.

Her research focuses on the development of data analysis and visualization techniques for information access, understanding, and management. She is particularly interested in the study of the structure and evolution of scientific disciplines; the analysis and visualization of online activity; and the development of cyberinfrastructures for large scale scientific collaboration and computation.


She and her colleagues at the Cyberinfrastructure for Network Science Center serve the

- Scholarly Database of 27 million scholarly records, http://sdb.cns.iu.edu
- Information Visualization Cyberinfrastructure, http://iv.cns.iu.edu

For more information on her research agenda, teaching, and other activities, visit: http://info.slis.indiana.edu/~katy/
General Questions

1. Do you consider yourself a developer, user, idealist, creator, etc.?

   User

2. What is (are) your main interest(s) in attending the workshop?

   I would like to understand how the OSGi/CIShell architecture that our tools use relates to other efforts
   that aim to support the plug-and-play of algorithms by non-computer scientists. Ideally, the workshop
   provides a means to identify system architectures that support modular software development and scale
   to BIG data. I am also interested to identify synergies among existing tool and service development
   efforts—the more teams agree on basic standards the easier the exchange of know-how and plugins.
   Identification of joint funding opportunities would be a plus.

3. What would you like to learn / achieve at the workshop?

   I would like to understand how the OSGi/CIShell architecture that our tools use relates to other efforts
   that aim to support the plug-and-play of algorithms by non-computer scientists. Plus, how can we
   make the OSGi/CIShell architecture ever more user friendly?

4. What is (are) the tool(s) or service(s) you would like to share at the workshop?

   Please see listing above, particularly http://cishell.org.

5. Please list three features or functions of your tools or services that are most important for users?

   Ease of use—installation and workflow design.
   Plug-and-play of algorithms by non-computer scientists.
   Re-runnable workflows and error logs.

6. What are the major concerns for the architect design of the tools / services?

   Plug-and-play plus usage of advanced algorithms by non-computer scientists.

7. Are you or your group working on any of these challenges? If yes, please explain.

   See above, particularly http://cishell.org.

8. Are you aware of particularly innovative approaches to support the plug-and-play of algorithms
   across different tools? If yes, please list approaches.

   http://www.scivee.tv/node/27704
9. Does your development team contain volunteer developers? If yes, please explain setup.

No. We do work closely with companies.

10. Have you organized or participated in a competition that inspires and empowers many to contribute/share algorithm and tool plugins? If yes, please provide details.

No, but I am interested to organize such a competition.