Indiana University Computer Science Colloquium:

**Data-Code-Computing Infrastructure for Data Mining, Modeling and Visualization Research and Education**

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4-5PM
LH102

**Abstract:**
The Information Visualization Lab at IUB develops, extends and applies data analysis, modeling and visualization algorithms in order to:

- understand and communicate social activity patterns,
- extract and predict the structure and evolution of scientific knowledge, and
- analyze and manage the diffusion of the tangible (objects, people, etc.) and/or intangible (ideas, activation levels, etc.) entities across geographic, semantic, or constructed space.

The amount of data that needs to be processed for these types of projects requires diverse and scalable algorithms supported by a powerful computing infrastructure. This talk will present the beginnings of an InfoVis CyberInfrastructure that supports this research by providing access to:

- about one terabyte of raw and preprocessed data such as papers, patents or grants,
- various software packages and API's that ease the exploration, modification, comparison, and extension of data mining and information visualization algorithms, as well as
- parallel computing resources.

The InfoVis Lab Gallery can be found at: [ella.slis.indiana.edu/~katy/gallery](ella.slis.indiana.edu/~katy/gallery). The research Web page with links to papers is available at: [ella.slis.indiana.edu/~katy/research](ella.slis.indiana.edu/~katy/research).
Biography:

Katy Börner is Assistant Professor of Information Science, Adjunct Assistant Professor of Informatics, Core Faculty of Cognitive Science, and Research Affiliate of the Biocomplexity Institute at Indiana University, Bloomington. She obtained her Ph.D. in Computer Science from the University of Kaiserslautern in 1997.

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