



















Fall 2004 Talk Series on

Networks and Complex Systems

Every Monday 6-7p, LI 001 ~ Optional Dinner Afterwards

DescriptionThis talk series is open to all Indiana University faculty and students interested in network analysis, modeling, visualization and complex systems research.

A major intent is to cross-fertilize between research done in the 'hard core' sciences' such as biology or physics.

Links to people, projects, groups, students, courses and Indiana University are also available via the CSN web site

The slides of all talks will be be available online. Most talks will be video taped.

Organizer Katy Börner <katy@indiana.edu> Assistant Professor

Time & Place
Every Monday 6:00-7:00pm in the Main Library LI 001, In
Science Colloquium Series.

There is an optional dinner afterwards 7-9p at Lennie's.



http://vw.indiana.edu/talks-fall04/

Mapping Humanity's Knowledge and **Expertise in the Digital Domain**

At the 101st Annual Meeting of the Association of American Geographers Denver, CO: April 5-9, 2005.

http://ww.indiana. edu/aag05/

Session Organizers

Katy Börner, Indiana University
André Skupin, University of New Orleans

Sponsors

Cartography and GIS specialty groups

This session will bring together leading researchers and practitioners that aim to develop techniques, tools, and infrastructures to map humanity's knowledge and expertise for the improvement of science and education

Knowledge and expertise is typically extracted from digitally available literature, news, computer mediated communication data as well as from information about the producers and consumers of those data sets. Advanced data analysis techniques in combination with spatial metaphors, geographic principles, and cartographic methods are applied to organize, visualize, and communicate the semantic relationships inherent in the data

The ultimate goal of this work might be an interactive cartographic map of all of science, with continents representing the major research areas such as, e.g., biology or physics, dots denoting major authors, PIs, papers or news dynamically evolving research frontiers, blinking 'hot' papers and topics, etc. This map could be used to teach and understand the evolving structure of all of science, to identify major experts, to find and read the most relevant papers and news, to see the effects of resource allocation decisions, to study social networks, etc. Last but not least, it would provide a unique bird's eye view of major experts in specific areas and mankind's knowledge in general.

Some of the leading-edge research on this topic is found where geography intersects with information/library science, computer science, and cognitive science. We invite papers on the broad foundations, computational methods, software systems, and evaluation of such data analyses and visualizations, as they have emerged in this interdisciplinary endeavor.