

Toward a Science of Visualactive Synthesis: Techniques and Tools for Highly Interactive Visual Data Exploration and Analysis

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MSCS 214 (NCB 213 for Tulsa)

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Research is a complex process of observation, collection, analysis, interpretation, description, and dissemination. Visualization seeks to facilitate this process by augmenting innate human perceptual and cognitive capabilities with interactive computational tools. Despite increasing adoption of visualization in many domains, there is as of yet little support for an open-ended, user-driven process of broad and deep information engagement in which data processing, graphical depiction, and human interaction are dynamically determined by evolving informational needs and goals. In this talk, I will present possibilities to facilitate the reasoning processes of science and scholarship using existing techniques and emerging ideas in visualization.

Bio:

Chris Weaver is an Assistant Professor in the School of Computer Science and Associate Director of the Center for Spatial Analysis at the University of Oklahoma. He holds a B.S. in Chemistry and Mathematics from Michigan State University and an M.S. and Ph.D. in Computer Science from the University of Wisconsin-Madison. He was post-doctoral Research Associate with the GeoVISTA Center in the Department of Geography at Penn State, where he helped to found the North-East Visualization and Analytics Center. His research in information visualization and visual analytics focuses on synthesis of visual query interfaces for exploring and analyzing heterogeneous multidimensional data sets.