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Designing, Conducting, and Analyzing Empirical Studies

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## Designing, Conducting, and Analyzing Empirical Studies

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**Abstract:** LED08 is concerned with the role of diagrams in communication between engineers. Evaluation is at the heart of an engineering approach to designing and/or selecting diagrams that are well-suited to a particular task. In this talk I will survey several methods for conducting empirical studies of such diagrams, discuss approaches to analysis, review several studies that we have conducted, and summarize the lessons learned in the process.

**Keywords:** Empirical studies, Diagrams

**Biography:** Eileen Kraemer is a Professor and Head in the Computer Science Department at the University of Georgia. Prior to joining the faculty at UGA, she served on the faculty at Washington University in St. Louis in the Computer Science Department of the School of Engineering and Applied Science.

She received her Ph.D. in Computer Science in September of 1995 from the College of Computing at the Georgia Institute of Technology in Atlanta, where she studied with Professor John Stasko in the Graphics, Visualization, and Usability Center. She received an MS in Computer Science in 1986 from Polytechnic University in Brooklyn, NY and a BS in Biology in 1980 from Hofstra University in Hempstead, NY.

Her current research interests include visualization and usability for computer science education, comprehension of concurrent systems, and visualization and interaction in support of computational biology.