

Centrality Based Visual Analysis of Networks

时间: 2010年9月17日(星期五) 下午2:00

Prof. Kwan-Liu Ma

地点: 北京大学理科二号楼 2736

University of California-Davis

Abstract:

Network analysis has very wide application in areas such as computational biology, epidemiology, organizational studies, online social networks, computer security, and homeland security. Visualization proves effective to aid in detecting and understanding the hidden features and patterns in massive, dynamically changing information spaces. Many visual analytics techniques have been developed for gaining insight from large, complex heterogeneous networks. In this talk, I will introduce new visual analytics techniques using centrality sensitivity for characterizing networks.



Dr. Kwan-Liu Ma is a professor of computer science and the chair of the Graduate Group in Computer Science (GGCS) at the University of California-Davis. He leads the VIDI (Visualization and Interface Design Innovation) research group, and directs the DOE SciDAC Institute for Ultra-Scale Visualization. His research spans the fields of visualization, high-performance computing, and user interface design. Professor Ma received his PhD in computer science from the University of Utah in 1993. During 1993-1999, he was with ICASE/NASA Langley Research Center as a research scientist. He joined UC Davis in 1999. Professor Ma has been actively serving the research community by playing leading roles in several professional activities including the NSF Workshop on Cyber Security, the SC Workshop on Ultra-Scale Visualization, IEEE Pacific Visualization Symposium, Eurographics Symposium on Parallel Graphics and Visualization, and IEEE Visualization Conference. He also serves on the editorial boards of the IEEE Computer Graphics and Applications, the IEEE Transactions on Visualization and Graphics, and the Journal of Computational Science and Discovery.

He also serves on the editorial boards of the IEEE Computer Graphics and Applications, the IEEE Transactions on Visualization and Graphics, and the Journal of Computational Science and Discovery.

