Variety in Visualization

Professor Jarke van Wijk
TU Eindhoven

9:00 a.m. - 10:15 a.m. Fri. April 24, 2009
Room 2129, Science Building No. 2, Peking University

Abstract
Visualization has become a large field, with a large variety in the addressed problems, the approaches used, and the solutions offered. This variety will be illustrated with work from the visualization group of TU Eindhoven. Examples are shown of scientific visualization (texture based flow visualization), information visualization (tree and tree+graph visualization), and visual analytics; with an emphasis on the differences between these. Finally, an attempt is made to summarize the similarities as well.

Biography
Jarke J. van Wijk received a MSc degree in industrial design engineering in 1982 and a PhD degree in computer science in 1986, both from Delft University of Technology. He worked at a software company and at the Netherlands Energy Research Foundation ECN before he joined the Technische Universiteit Eindhoven in 1998, where he became a full professor of visualization in 2001. His main research interests are information visualization, visual analytics, mathematical visualization, and flow visualization, focusing on the development of new visual representations. He has co-authored more than 100 papers in the areas of visualization and computer graphics.

He has been paper cochair for IEEE Visualization (2003, 2004), IEEE InfoVis (2006, 2007), is currently paper cochair for IEEE VAST 2009, and he was general chair of IEEE InfoVis in 2008. He received the IEEE Visualization Technical Achievement Award in 2007 for his work on flow visualization, and best paper awards at IEEE InfoVis 2003 and IEEE Visualization 2005.