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Data mining with data visualization

Some people believe that we live in the age of information. I believe it's much more accurate to say we live in the age of data. With the rapid advancement of big data storage technologies and the ever-decreasing costs of hardware, our ability to derive and store data is unprecedented. However, a large gap remains between our ability to generate and store large collections of complex, time-dependent data and our ability to derive useful information and knowledge from it. Data visualization leverages our most powerful sense, vision, in order to derive knowledge and gain insight into large, multivariate data sets that describe complicated and often time-dependent behavior. This talk presents data mining from the perspective of data visualization with three very different applications: Computational Fluid Dynamics (CFD), marine biology and rugby, showcasing some of visualizations strengths, weaknesses and goals. Data visualization is critical to successful data mining and extracting knowledge and insight from big data.

Biography

Robert S Laramee received a Bachelor's degree in Physics from the University of Massachusetts, Amherst. In 2000, he received a Master's degree in Computer Science from the University of New Hampshire, Durham. He was awarded a PhD from the Vienna University of Technology, Austria at the Institute of Computer Graphics and Algorithms in 2005. From 2001 to 2006 he was a Researcher at the VRVis Research Center (www.vrvis.at) and a Software Engineer at AVL (www.avl.com) in the Department of Advanced Simulation Technologies. Currently, he is an Associate Professor in the Department of Computer Science at the Swansea University, Wales. His research interests are in the areas of Big Data Visualization, Visual Analytics, and Human-Computer Interaction. He has published more than 100 peer-reviewed papers in scientific.

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