Computer Science
Seminar

Visual Text Analytics and its Applications

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Abstract: The increasing amount of textual data bears valuable insights in domains including business intelligence and public policy. While automated text-analysis algorithms produce compelling results on summarizing and mining textual data, the end results are often too complex for average users to make decisions upon. In this talk, I will introduce my research on integrating automated data-analysis algorithms with visual analytics systems that help decision makers make sense of large-scale textual data interactively. I will introduce applications that integrate text-analysis algorithms and interactive visualization of the topics and events. These applications not only facilitate domain experts to make decisions based on insights gained from textual data, but also serve as platforms to study human biases during decision making. ¡br¿¡br¿ Short bio: Dr. Wenwen Dou is currently an assistant professor of College of Computing and Informatics and a core faculty member at Charlotte Visualization Center at University of North Carolina at Charlotte. Her research interests include Visual Analytics, Text Mining, and Human Computer Interaction. She works in the cutting-edge research area of Visual Text Analytics, which integrates statistical and machine learning methods with powerful interactive visualization for analyzing large amounts of textual data. Dou has worked with various analytics domains in reducing information overload and providing interactive visual means to analyzing unstructured information. She has experience in turning cutting-edge research into technologies that have broad societal impacts, partially demonstrated by support from both academic and industry partners, including the Pacific Northwest National Laboratory, US Army Research Office, US Special Operations Command, National Science Foundation, US Army Engineering Research and Development Center, and Lowes company Inc. Dou has been serving on the organizing and program committee of the IEEE VIS conference, the premier conference for visualization research.

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