

Visual Analytics for Emerging Data-Intensive Problems

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In many domains of study and practice, tremendous amounts of data are being collected but not fully utilized, due to a lack of capable data-driven discovery and decision-support tools to extract value from the data. Visual analytics, which integrates statistical analysis and machine learning methods with interactive visualization, can uncover essential patterns and relations in the data to guide the data analysis process, leading to findings crucial to decision making and problem solving. I will present visual analytics designs for emerging data-intensive problems found in healthcare, supercomputing, and document analysis.