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Data Representations, Transformations, and Statistics for Visual Reasoning

Ross Maciejewski

SYNTHESIS LECTURES ON VISUALIZATION

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Analytical reasoning techniques are methods by which users explore their data to obtain insight and knowledge that can directly support situational awareness and decision making. Recently the analytical reasoning process has been augmented through the use of interactive visual representations and tools which utilize cognitive design and perceptual principles. These tools are commonly referred to as visual analytics tools and the underlying methods and principles have roots in a variety of disciplines. This chapter provides an introduction to young researchers as an overview of common visual representations and statistical analysis methods utilized in a variety of visual analytics systems. The application and design of visualization and analytical algorithms are subject to design decisions, parameter choices, and many conflicting requirements. As such, this chapter attempts to provide an initial set of guidelines for the creation of the visual representation, including pitfalls and areas where the graphics can be enhanced through interactive exploration. Basic analytical methods are explored as a means of enhancing the visual analysis process, moving from visual analysis to visual analytics.

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