Acquiring Information from Diverse Industrial Processes Using Visual Analytics

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Visual analytics is an emerging technology that provides another technique to derive better information from data. As a technology, visual analytics is a new approach that complements more traditional methods in business intelligence, information visualization, and data mining. The basic concept is to provide highly interactive visual techniques that let people explore multiple heterogeneous data sets simultaneously. The key aspect is interactivity, which lets people follow paths to seek answers to questions normally unasked. The visual aspect allows people to detect the expected and discover the unexpected.

The intelligence community in the United States and Europe began investing in and using visual analytics after the events of September 11, 2001. Boeing is a leader in exploring the application of visual analytics in industry. One of the primary attractions for visual analytics is the technology's applicability to data gathered from diverse processes. This talk will provide a glimpse of the highly complex business in a global aerospace company, an overview of visual analytics, Boeing's overall approach to visual analytics, and specific cases studies from multiple process domains, including bird strikes, industrial safety, and software system interrelationships.