Abstract

In today’s scenario, most of the applications like web repository generate bulk of heterogeneous data. Visualization helps in the interpretation of meaningful information from huge data generated by these applications. There are many visualization techniques available in literature. Parallel Coordinates, Glyph and Projection techniques are some of the famous data visualization techniques. Projection techniques are unable to illustrate the details of data like inter-tuple variations. Parallel Coordinates have good capacity to express the details, but require more space as well as it is affected from clutter. Trend figure is also affected from clutter up to some extent. Considering the heterogeneous nature of data and limitation of visualization techniques, single visualization technique does not fulfill the analytical requirements of different application domains. But combination of these visualization techniques may fulfill the analytical requirements of applications from different domain. In this work, we have developed a tool, in which Parallel coordinates and trend figure used as interactive techniques with projection technique. The proposed combination reduces the limitation like inter-tuple variations of projection technique. Analysis of data with proposed tool has the potential to uncover other relationships and non-trivial structures.
References

Circular Visualization Enhancement through Complementary Interaction

- Robert Kosara "Indirect Multi-Touch Interaction for Brushing in Parallel Coordinates". Visualization and Data Analysis (VDA), pages 786809-1-786809-7, 2011.

Index Terms

Computer Science  Pattern Recognition

Keywords  
Visualization  Parallel Coordinates  tuple  Projection  interaction  pattern