AN EFFICIENT FRAMEWORK FOR GENERATING STORYLINE VISUALIZATIONS FROM STREAMING DATA

ABSTRACT

A novel framework for applying storyline visualizations to streaming data. The framework includes three components: a new data management scheme for processing and storing the incoming data, a layout construction algorithm specifically designed for incrementally generating storylines from streaming data, and a layout refinement algorithm for improving the legibility of the visualization. By dividing the layout computation to two separate components, one for constructing and another for refining, our framework effectively provides the users with the ability to follow and reason dynamic data. The evaluation studies of our storyline visualization framework demonstrate its efficacy to present streaming data as well as its superior performance over existing methods in terms of both computational efficiency and visual clarity.

ARCHITECTURE
EXISTING SYSTEM

In Existing system data visualizations have enabled users to transform overwhelming amounts of data into understandable visual summaries. With recent technological advancements, the rapid rates of data production places increasing interesting applying visualizations to real-time/streaming data to conduct Expeditious data analyses.

DRAWBACK OF EXISTING SYSTEM

- We require a comprehensive framework for streaming visualization.
- Data flow and updating time elapsed.

PROPOSED SYSTEM

A new framework for generating storyline visualizations from streaming data. Our framework includes a new data management scheme for processing and storing incoming data feeds. It is important to develop techniques that allow dynamic generation of data visualizations from streaming data.

There are three design principles,
- Lines that belong to the same group need to be converged and grouped together.
- Otherwise, lines must be diverged and apart.
- Lines must not deviate unless there is a change in its group formation.

ADVANTAGE OF PROPOSED SYSTEM

- Well-constructed storyline visualization can convey both global trends in social structures and local activities between individual entities in a single picture.
- Minimize line deviations, crossover, screen space.
Generate layouts from streaming data, but also construct layouts faster and handle larger datasets than existing techniques

SYSTEM SPECIFICATION

Hardware Requirements

- System : Pentium IV 2.4 GHz
- Hard Disk : 40 GB
- Floppy Drive : 1.44 Mb
- Monitor : 15 VGA Colour
- Mouse : Logitech
- Ram : 512 Mb

Software Requirements

- Operating system : Windows XP
- Technology Used : Microsoft .NET
- Backend Used : SQL Server