A Case Study of Geovisual Analytics Approach for Exploring Unknown Patterns over Spatio-Temporal Datasets

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Abstract

An effective web-enabled geovisual analytics approach, that has been developed based on the principles behind visual analytics to interactively visualize and solve spatio-temporal related visualization problems for multivariate data through a visual discovery and analytical reasoning is introduced in this paper. This approach makes extensive use of spatial and temporal filtering, interactive highlighting and color encoding that allows analysts to perform exploratory analysis to make sense of the data. A case study is performed illustrating the benefits of using this proposed approach by finding unknown information for effective decision making in real world problem.

References


Index Terms

Computer Science Pattern Recognition

Keywords

Geovisual analytics (GVA), Spatio-temporal data, Analytical reasoning, Visual variable.