

SFB/TR 8 Spatial Cognition / IQN Video Conference

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Linking Spatiotemporal Data via Semantic Modeling

This talk is about data, and especially about how to create useful linked spatiotemporal data.

Linked Data technologies allow for exploration of contents online by using the Web as the data infrastructure. However, the task of producing links between resources is challenging. Data coming from heterogeneous sources needs to be integrated in order to support the creation of useful linkages. Semantic modeling of resources facilitate this task by making the semantics of resources explicit. In this talk I will give examples of linking spatiotemporal data from three different cases and discuss both the theories behind them and the practical impact. The first case is Digital Cultural Heritage where we create spatiotemporal links by modeling changes between regions and by modeling the imprecision of time periods. The second case is the modeling of provenance of Volunteered Geographic Information to facilitate measuring of trust, reputation and data quality. The third case is Linked Science, to allow for interconnecting of scientific assets for exploration, analysis and services.

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