Session 1

Time in Geospatial Visual Analytics

events & movement

Discussion
Summary of the papers

1. Analysis of events using space-time cube
   • visual representation of relationships between events
2. Contextualizing hotspots
   • joint analysis of point-related counts and area-related ratio aggregates
3. Cross-dimensional queries for analyzing movement
   • dynamic query tools over derived characteristics of movement
4. Analysis of movement by multiple linked methods
   • spatial & temporal aggregation, detection of interactions
5. Evaluating usage of animated maps by analyzing eye movement
   • detection of hotspots on the screen, summarization of trajectories
Discussion Topics (generalized)

• enriching raw data by semantics (POIs/AOIs, hotspots, interactions, relationships)
  – a systematic approach how to do this?

• simultaneous analysis of multiple data types
  – what analysis methods can support analysis of such data?
  – is putting all data on the same map sufficient/effective?

• multiple methods of analysis
  – how many methods we need?
    • common libraries, infrastructure?
    • users: how to help them to use this?
  – how to select appropriate/sufficient methods for a problem

• multiple threshold and parameter settings of methods, too many opportunities…
  – how to deal with this?