

Geospatial Visual Analytics Workshop @ GI Science 2008

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?