Midterm Presentation

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Chapter 8 Interfaces

• Encyclopedia Articles
  • Generalization and Symbolization, W. Mackaness, O. Chaudhary, page 330-339
  • User Interfaces and Adaptive Maps, Sarjakoski(s), page 1205-1212.
  • Geographic Dynamics, Visualization and Modeling, M. Yuan, page 358-362.
Relevance to Course

- The articles talk about Dynamic and adaptive maps
- Adaptation is based on
  - location of the user
  - Time of the presented data (climate change)
  - Purpose of usage

- The course talks about spatial computing

- So the articles are complementary materials to the course
Related Material in Textbook

- Chapter 8 discusses techniques used in interfaces for location based services.

- Encyclopedia articles discusses techniques to create dynamic and adaptive maps according to the user needs.

- Both provide information about how to enhance visualization of spatial data.
Novelty in Encyclopedia Articles

• Chapter 8 mainly concerns with the methods used to visualize spatial data, like:
  • Geovisualization
    • Animation
    • 3D displays
    • Non-visual displays
    • Feedback
  • Map symbolization
    • Visual portrayal of information through common associations of graphical elements
Novelty in Encyclopedia Articles

- The articles mainly concern with how to make non-static maps, dynamic and adaptive.

- Maps adapt with the display device
Novelty in Encyclopedia Articles

- Maps adapt with the User needs (LBS vs Routes)
Novelty in Encyclopedia Articles

- Maps adapt with the needed scale and details
Computer Science & Societal Motivation

- Weather and Climate
- Land Use and Cover Change
- Human Activities, Movements and Interactions
- Spread of Species, Wildfire, Diseases, or Pollutants
Thanks