

Maa-123.3530 - Visual Analysis in GIS

18th December 2014

Note: The question paper had to be handed back after the exam, so I am typing this up from memory.

1. What are the roles of preattentiveness, Gestalt laws and colour vision in visual perception and how should they be taken into account in visual analysis?
2. Describe the following with regards to visual analysis:
 - a. Parallel coordinate Plot (PCP)
 - b. Self Organizing Map (SOM)
 - c. Re-orderable matrix
3. Describe three visualization methods that can be used for analyzing spatio-temporal data. Also describe what types of temporal phenomena can be analyzed by the methods or what types of phenomena can they reveal.
4. Explain the following terms with regards to visual analysis:
 - a. Pattern
 - b. Insight
 - c. Normalization
 - d. Data reduction
 - e. Brushing
 - f. Hypothesis