

Visual Analytics

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Fall 2020

Class Format

- Lectures
 - ~8 weeks
- Student Presentations
 - ~3 weeks

Syllabus I

- Data Analytics and Information Visualization
- Data Analytics Topics
 - Clustering
 - Density Estimation
 - Multidimensional Scaling
 - Manifold Learning
 - Latent Semantic Indexing

Syllabus II

- Information Visualization Topics
 - Charts and Graphs
 - Hierarchical Structures and Trees
 - Interaction
 - Database Visualization
 - Graph and Network Drawing
 - Force Directed Placement, Multiscale Graph Drawing
 - Text and Documents

Grading

- Paper Presentation
 - 20%
- Midterm and Final Projects
 - 60%
- Class Participation
 - 20%