Cornelia Caragea

Office address

F228 Discovery Park Computer Science and Engineering University of North Texas, USA Phone: 814-308-4974 Email: ccaragea@unt.edu URL: http://www.cse.unt.edu/~ccaragea/

Topics

- 1. Overview of Social and Information Network Analysis and Machine Learning
- 2. Graph Theory
- 3. Social Networks
 - The Structure of a Network
 - How to Characterize a Network Structure
 - The Small-World Phenomenon
 - Strong and Weak Ties
 - Positive and Negative Relationships
- 4. Information Networks
 - Search Engines
 - Link Analysis and Web Search
 - The HITS Algorithm Link Analysis using Hubs and Authorities
 - The PageRank Algorithm
- 5. Linear Regression
- 6. Logistic Regression
- 7. Naïve Bayes
- 8. Neural Networks
- 9. Deep Learning
- 10. Support Vector Machines and Kernel Functions
- 11. Semi-Supervised Learning (SSL)
 - Expectation-Maximization for SSL
 - Self-Training
 - Co-Training