

September 10 2019 MQP Meeting: Paper Outline

Paper Outline

1. Abstract
2. Introduction
3. Related Work
4. Methodology
 1. Supervised Learning for Link Prediction
 2. Network Metrics
 - Common Neighbors
 - Jaccard Coefficient
 - Resource Allocation Algorithm
 - Preferential Attachment
 3. Learning Methods
 - Logistic Regression
 - Support Vector Machines
 - Random Forest
 - Gradient Boosting
5. Data
 1. Collection via Web Scraping
 2. Visualization and Analysis with Custom-Built Application
6. Results
7. Assessment
 1. Achievement of Goals
 2. Learning Experience
8. Future Work
9. Discussion
10. References
11. Appendix: Data Analysis (Implementation Detail)
 1. Possible Pseudocode implementation

Discuss Title

Current Title: *Journal and Conference Social Network Analysis*

Proposed: *Collaboration Recommendation via Supervised Learning for Link Prediction* or something along those lines

Supervised Machine Learning for Network Collaboration Prediction

Professor Rob to WW