

EECS414: Information Networks

Sample Past Project Ideas

Winter 2022

Winter 2022

- 01 - Analysis and Optimization of the Speeding Camera Locations in Toronto
- 02 - E-Commerce Recommender Systems and Review Prediction
- 03 - Future Red-Light Camera Placements using Existing Networks
- 04 - COVID-19 Discourse in Online Soc. Nets: A Topic-based Sentiment Analysis
- 05 - Recommender System of Movies and Evaluation Analysis
- 06 - Disrupting ISIS' Lines of Communication via Twitter Analysis
- 07 - Addressing EV charging station problems using Networks
- 08 - Air Transportation Network resilience and structural analysis
- 09 - Analysis of Freight Fluidity in Multi-Modal Network in Canada
- 10 - Pandemic simulator
- 11 - Deriving & Analyzing Networks from COVID-19 Simulations
- 12 - COVID-19 propagation networks, model, simulation

Fall 2021

Fall 2021

- 01 - Synthetic AI Network Analysis: Socially Aware AI Agents
- 02 - The Spread of Fake News in the Information Age
- 03 - Understanding COVID-19 with Network Analysis
- 04 - An Analysis of Node Embedding for Predicting Information Diffusion
- 05 - Analyzing Polarization in Social Media around COVID-19 Policies
- 06 - Measuring TTC Bus Reliability
- 07 - Empirical Analysis of Information Spread in Viral Social Media Trends
- 08 - Social Network Influencer Ranking Based On Link Analysis
- 09 - Reliability of Road Networks
- 10 - Traffic Prediction Analysis using T-GCN
- 11 - A Network Analysis of Amazon Co-Purchases
- 12 - Enhancing Twitter Link Prediction using Network Topology
- 13 - Wikipedia Recommendation System
- 14 - Modelling Flight Delays
- 15 - Exploration of Artist Collaboration Network
- 16 - Emerging countries in the World Trade Network

Fall 2020

Fall 2020

- 01 - Hollywood Actors Analysis
- 02 - Toronto Safe Routing Analytics
- 03 - Global Trade Network Analysis
- 04 - Forest Fire Analytics: A Comprehensive Network Model Study
- 05 - Impact of COVID-19 Pandemic on Global Commercial Flight Network
- 06 - Identifying Influential Dependencies in Software Repositories
- 07 - User Interest Dynamics in Online Social Networks
- 08 - Shortest-Path Algorithm for Bicyclists, Prioritizing Bike Lanes
- 09 - Deep knowledge graph construction based on trajectories
- 10 - Motif-Based PageRank
- 11 - YouTube Videos Recommendation: Link Prediction and Evaluation
- 12 - Evaluation of Transit Systems Robustness under Service Disruptions
- 13 - Unicorn Startups Investment Analysis
- 14 - NBA Network Analytics
- 15 - Academic Literature Recommendation System with Graph Based Deep Clustering

Winter 2018

Winter 2018

01 - Analysis of Amazon's Network Metadata

02 - Modeling Rumor Through Information Flow in Simulated Networks

03 - Analysis of Annual Global Trade through Information Networks