FACULTY MENTOR
Touri, Behrouz

PROJECT TITLE
Distributed Optimization over Time-varying Graphs
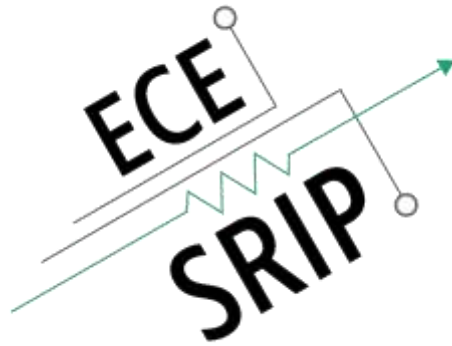
PROJECT DESCRIPTION
This projects requires the students to implement some of the existing distributed optimization techniques over time-varying graphs. The students are required to implement and test various distributed optimization algorithms.

INTERNS NEEDED
2

PREREQUISITES
The students should be comfortable with understanding mathematical concepts and are familiar with MATLAB and Python.

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PROJECT TITLE
Models of Scale-free Networks

PROJECT DESCRIPTION
Many of the real-world networks exhibit a property, called scale-free property. There are several models that have scale-free property, the most well-known of such models is the Barabasi-Albert model. In this project, the student is required to perform a survey of all the mathematical models that have this property.

INTERNS NEEDED
1

PREREQUISITES
Mathematical curiosity! The students are not needed to know what a scale-free network is.