

## **Homework Assignment 10**

### **Exercise 10.1**

What is a social network?

### **Exercise 10.2**

Briefly explain Seeley's model of prestige in social networks.

### **Exercise 10.3**

What is a co-citation graph, and what is an Erdős number?

### **Exercise 10.4**

What is a Bacon number and what is Paul Erdős' Bacon number?

### **Exercise 10.5**

Briefly explain the random surfer model. Is it a reasonable model of how people surf through the Web?

### **Exercise 10.6**

What do you need the Topic-Sensitive PageRank for?