cmpe556 Midterm
Spring 2021 (covid-19)

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1 Question

Let **A** be the adjacency matrix of an undirected network and **1** be the column vector whose elements are all 1. In terms of these quantities write expressions for:

a. the vector **k** whose elements are the degrees k_i of the vertices;

b. the number m of edges in the network;

c. the matrix **N** whose element N_{ij} is equal to the number of common neighbors of vertices i and j;

d. the total number of triangles in the network, where a triangle means three vertices, each connected by edges to both of the others.

1.1 Solution

Aaa.

A Read me

Use the given LaTeX template for homework.

Please read rules and naming conventions at LaTeX-Templates.