



## DISCRETE MATHEMATICS AND ITS APPLICATIONS IN NETWORK ANALYSIS

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**Abstract:** In this article we will give a small introduction to the discrete mathematics and its application in network analysis. Because of limitations regarding this article (extended summary) and because we are aware that the scientific study of networks, such as computer networks, biological networks, and social networks, is an interdisciplinary field that combines ideas from mathematics, physics, biology, computer science, the social sciences, and many other areas, we will try to describe some basic types of networks studied by present day science as well as some techniques used to determine their structure.

**Key words:** Networks, discrete mathematics, network analysis, ViSOC

## DISKRETNJA MATEMATIKA I NJENE PRIMJENE U MREŽNOJ ANALIZI

**Sažetak:** U ovom radu dat ćemo samo kraći uvod u diskretnu matematiku te njezine primjene/aplikacije u mrežnoj analizi. Budući smo svjesni ograničenja vezanih za ovaj rad (prošireni sažetak), te budući smo svjesni činjenice kako je znanstveno proučavanje/studija mreža, kao na primjer računalnih mreža, bioloških mreža, te društvenih mreža, u biti interdisciplinarno polje u kojem se kombiniraju i isprepljuju ideje iz matematike, fizike, biologije, računalnih znanosti, i društvenih znanosti, kao i mnogih drugih područja, pokušat ćemo opisati neke osnovne tipove mreža koji su bili predmetom proučavanja znanosti do današnjeg vremena, kao i neke tehnike koje se koriste za utvrđivanje njihove strukture.

**Ključne riječi:** Mreže, diskretna matematika, mrežna analiza, ViSOC

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