

Graph Theory and Algorithms for Network Analysis

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Abstract- In network analysis, the study and comprehension of complex systems in numerous fields, such as social networks, transportation networks, and biological networks, are made possible by the crucial role played by graph theory and algorithms. In order to give a comprehensive review of the graph theory and network analysis methods, this abstract will focus on their significance, practical uses, and most recent developments. With items represented as nodes or vertices and links between them as edges, graph theory offers a mathematical framework for modeling and evaluating relationships between objects. Researchers may learn important things about the structure, connectivity, and behavior of complex systems by using graph theory in network analysis. As a result, network analysis is made possible by the graph theory and algorithms, which offer strong tools for studying and comprehending the complicated linkages and structures of complex systems. Graph theory and algorithms have many different applications, including social networks, transportation networks, and biological networks. Large-scale network analysis is now possible thanks to the development of effective algorithms and methodologies, which has significantly advanced the subject. The significance of graph theory and algorithms for network research will only rise as networks continue to expand in size and complexity.

INTRODUCTION

The degree of a node, which denotes the number of edges incident to that node, is one of the fundamental ideas in graph theory. A network's degree distribution can disclose crucial characteristics like the existence of hubs or the network's resistance to random failures.

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