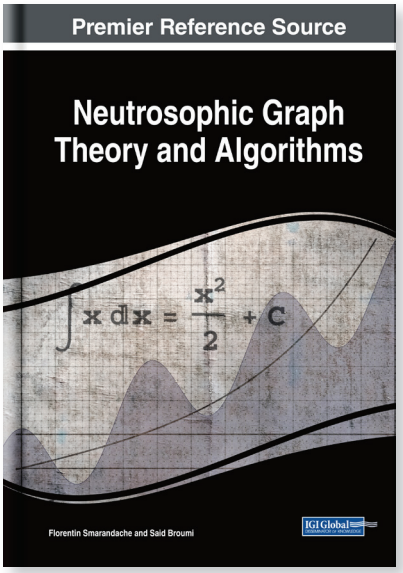
Neutrosophic Graph Theory and Algorithms



Part of the Advances in Data Mining and Database Management Book Series

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Description:

Graph theory is a specific concept that has numerous applications throughout many industries. Despite the advancement of this technique, graph theory can still yield ambiguous and imprecise results. In order to cut down on these indeterminate factors, neutrosophic logic has emerged as an applicable solution that is gaining significant attention in solving many real-life decision-making problems that involve uncertainty, impreciseness, vagueness, incompleteness, inconsistency, and indeterminacy. However, empirical research on this specific graph set is lacking.

Neutrosophic Graph Theory and Algorithms is a collection of innovative research on the methods and applications of neutrosophic sets and logic within various fields including systems analysis, economics, and transportation. While highlighting topics including linear programming, decision-making methods, and homomorphism, this book is ideally designed for programmers, researchers, data scientists, mathematicians, designers, educators, researchers, academicians, and students seeking current research on the various methods and applications of graph theory.

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Topics Covered:

- Decision-Making Methods
- Fuzzy Logic
- Graph Connectivity
- Homomorphism
- Linear Programming
- Neutrosophic Matrices
- Optimization Techniques
- Shortest Path Problems
- Spanning Tree Problems
- Transportation Networks

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