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Titolo	Graphs for the Analysis of Bipolar Fuzzy Information // by Muhammad Akram, Musavarah Sarwar, Wieslaw A. Dudek
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Descrizione fisica	1 online resource (XXVIII, 452 p. 241 illus., 2 illus. in color.)
Collana	Studies in Fuzziness and Soft Computing, , 1860-0808 ; ; 401
Disciplina	510
Soggetti	Graph theory Graph Theory
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Note generali	Includes index.
Nota di contenuto	Chapter 1: Bipolar Fuzzy Sets and Bipolar Fuzzy Graphs -- Chapter 2: Distance Measures in Bipolar Fuzzy Graphs -- Chapter 3: Special Types of Bipolar Fuzzy Graphs -- Chapter 4: Bipolar Fuzzy Competition Graphs -- Chapter 5: Bipolar Fuzzy Planar Graphs -- Chapter 6: Domination in Bipolar Fuzzy Graphs -- Chapter 7: Bipolar Fuzzy Circuits -- Chapter 8: Energy in Bipolar Fuzzy Graphs -- Chapter 9: Bipolar Neutrosophic Competition Graphs -- Chapter 10: Bipolar Neutrosophic Graph Structures.
Sommario/riassunto	This monograph discusses decision making methods under bipolar fuzzy graphical models with the aim of overcoming the lack of mathematical approach towards bipolar information—positive and negative. It investigates the properties of bipolar fuzzy graphs, their distance functions, and concept of their isomorphism. It presents certain notions, including irregular bipolar fuzzy graphs, domination in bipolar fuzzy graphs, bipolar fuzzy circuits, energy in bipolar fuzzy graphs, bipolar single-valued neutrosophic competition graphs, and bipolar neutrosophic graph structures. This book also presents the applications of mentioned concepts to real-world problems in areas of product manufacturing, international relations, psychology, global terrorism and more, making it valuable for researchers, computer scientists, social scientists and alike.