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| Altri autori (Persone) | Shumaiza Rodríguez Alcantud José Carlos |
| Disciplina | 658.403 |
| Soggetti | Operations research Mathematical optimization Set theory Mathematics Operations Research and Decision Theory Optimization Set Theory Applications of Mathematics Presa de decisions multicriteri Conjunts borrosos Llibres electrònics |
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| Nota di contenuto | 1. TOPSIS and ELECTRE-I Methodologies: Bipolar Fuzzy Formulations -- 2. TOPSIS Method with Trapezoidal Bipolar Fuzzy Numbers -- 3. VIKOR Method with Trapezoidal Bipolar Fuzzy Sets. - 4. Extended VIKOR Method Based on Complex Bipolar Fuzzy Sets -- 5. Beyond ELECTRE I: A Bipolar Fuzzy ELECTRE II Method -- 6. Extended PROMETHEE Method with Bipolar Fuzzy Sets -- 7. Enhanced Decision-Making Method with Two-Tuple Linguistic Bipolar Fuzzy Sets. |
| Sommario/riassunto | This monograph discusses the theoretical and practical development of multicriteria decision making (MCDM). The main purpose of MCDM is the construction of systematized strategies for the "optimisation" of |

feasible options, as well as the justification of why some alternatives can be declared "optimal". However, at time, we must make decisions in an uncertain environment and such inconvenience gives rise to a much more elaborate scenario. This book highlights models where this lack of certainty can be flexibly fitted in and goes on to explore valuable strategies for making decisions under a multiplicity of criteria. Methods discussed include bipolar fuzzy TOPSIS method, bipolar fuzzy ELECTRE-I method, bipolar fuzzy ELECTRE-II method, bipolar fuzzy VIKOR method, bipolar fuzzy PROMETHEE method, and two-tuple linguistic bipolar fuzzy Heronian mean operators. This book is a valuable resource for researchers, computer scientists, and social scientists alike.
