

1. Record Nr.	UNINA9910647777703321
Titolo	Advances in Best-Worst Method : Proceedings of the Third International Workshop on Best-Worst Method (BWM2022) // edited by Jafar Rezaei, Matteo Brunelli, Majid Mohammadi
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-24816-3
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (185 pages)
Collana	Lecture Notes in Operations Research, , 2731-0418
Disciplina	658.403
Soggetti	Operations research Management science Mathematical optimization Operations Research and Decision Theory Operations Research, Management Science Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Preface -- Organization -- Scientific Committee -- Organizing Committee -- Contents -- An Overview of the Applications of BWM in Health -- 1 Introduction -- 2 Best Worst Method (BWM) -- 3 Literature Review of Applications of BWM in Health -- 3.1 BWM in Healthcare System Evaluation Studies -- 3.2 BWM in Hospital, Performance and Service Quality Studies -- 3.3 BWM in Diagnosing and Treatment-Related Studies -- 3.4 BWM in Healthcare Supply Chain Studies -- 3.5 BWM in Healthcare Support Systems -- 3.6 BWM in Occupational Health and Safety -- 4 Observations and Concluding Remarks -- References -- A State-of-the-Art Survey of Best-Worst Method Applications for the Problems Related to COVID-19 -- 1 Introduction -- 2 Analysis of Literature -- 2.1 Descriptive Analyses -- 2.2 N-grams Application and Analyses -- 3 Conclusion -- 3.1 Implications -- 3.2 Limitations and Future Directions -- References -- Why Should Not a Decision Analyst be Content with Only (n-1) Pairwise Comparisons? Echoes from the Literature -- 1 Introduction -- 2

Preliminaries -- 3 The Agreement in the Literature -- 3.1 Normative Decision Theory -- 4 The Roles of Redundancy and Inconsistency -- 5 Conclusions -- References -- Identifying Relative Marginal Value Functions for Ranking -- 1 Introduction -- 2 Ranking Method Based on Relative Marginal Value Functions -- 3 Numerical Example -- 4 Conclusion and Future Work -- References -- A Consensus-Based Best-Worst Method for Multi-criteria Group Decision-Making -- 1 Introduction -- 2 Background -- 2.1 Group Decision-Making and Consensus -- 2.2 Best-Worst Method -- 3 Consensus-Based Best-Worst Method -- 4 Illustrative Example -- 5 Conclusions -- References -- A Fuzzy Best-Worst Method Based on the Fuzzy Interval Scale -- 1 Introduction -- 2 Fuzzy Cognitive Best Worst Method Under the Fuzzy Interval Scale.

2.1 Fuzzy Cognitive Best Worst Method -- 2.2 Consistency Index and Consistency Ratio -- 3 Application -- 3.1 Comparative Analysis and Discussion -- 4 Conclusion -- References -- Integrating Sustainable Goals in Transmission System Operators' Projects -- 1 Introduction -- 2 Literature Review -- 3 Methodology -- 3.1 Sustainable Decision Criteria - Aspects of Sustainability -- 3.2 Analysing Importance - The BWM -- 3.3 Analysing Performance - The Maturity Model -- 3.4 The Importance-Performance Analysis -- 4 Results and Discussion -- 5 Conclusion -- References -- A GIS-Based BWM Approach for the Location Selection of Solar Power Plant in Tunceli Province (Turkey) -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology and Application Results -- 3.1 Criteria Used in the Location Selection -- 3.2 Weighting Criteria with the Best-Worst Method -- 3.3 Data Preparation for GIS Environment -- 3.4 Study Province -- 3.5 Integration of Criterion Weights to GIS Environment -- 4 Conclusion -- References -- A Fuzzy Best Worst Method Based Prioritization of Solar Panel Selection Criteria -- 1 Introduction -- 2 Literature Review -- 3 Methodology -- 4 Application -- 5 Conclusion -- References -- Prioritizing Competitive Capabilities in Additive Manufacturing Systems Using Best-Worst Method -- 1 Introduction -- 2 Literature Review -- 2.1 Additive Manufacturing Systems -- 2.2 Competitive Capabilities -- 3 Methodology -- 3.1 The Best-Worst Method -- 4 Results and Discussion -- 5 Conclusion and Implications -- References -- Identifying Impact of the Entrepreneurship Ecosystem on the Success of Entrepreneurial Start-Up Firms -- 1 Introduction -- 2 Theoretical Background -- 2.1 Entrepreneurship Ecosystem -- 2.2 The Lifecycle of Entrepreneurial Start-Up Firms -- 2.3 Success Measures of Start-Ups -- 3 Methodology -- 3.1 Data Collection -- 4 Results and Discussion.

4.1 Bayesian Best-Worst Method -- 4.2 Importance-Performance Analysis -- 5 Conclusions -- Appendix -- References -- Prioritizing the Distributor's Key Performance Indicators and Constraints to Implement TOC-Based Solution for Outbound Supply Chain Network -- 1 Introduction -- 2 Literature Review -- 2.1 TOC in Supply Chain -- 2.2 Constraint to Implement TOC Solution in Outbound Supply Chain -- 2.3 KPIs of Distributors -- 3 Research Methodology -- 3.1 Procedure to Conduct BWM Method -- 3.2 Computing Consistency Ratio -- 4 Results and Discussion -- 5 Conclusion -- References -- Evaluating and Ranking the Supplier Selection Criteria for Additive Manufacturing Firms Using Best-Worst Method -- 1 Introduction -- 2 Literature Review -- 2.1 Gap in the Literature -- 3 Methodology -- 3.1 Best-Worst Method (BWM) -- 3.2 Steps of BWM -- 3.3 Consistency Measurement -- 4 Results and Discussion -- 5 Conclusion -- References -- Author Index.

Best-Worst Method (BWM). It includes selected papers from the Third International Workshop on Best-Worst Method (BWM2022), held in Delft, the Netherlands, from 9 to 10 June 2022. The book provides valuable insights on why and how to use BWM in a diverse range of applications including health, energy, supply chain management, and engineering. Moreover, it highlights the use of BWM in different settings including individual decision-making vs group decision-making, and with complete information vs incomplete and uncertain information. Academics and practitioners whose work involves multi-criteria decision-making and decision analysis will particularly benefit from the papers gathered here.
