



# Multi-criteria Decision Analysis: Methods and Software

By Alessio Ishizaka, Philippe Nemery



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This book presents an introduction to MCDA followed by more detailed chapters about each of the leading methods used in this field. Comparison of methods and software is also featured to enable readers to choose the most appropriate method needed in their research.

Worked examples as well as the software featured in the book are available on an accompanying website.

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### Editorial Review

From the Back Cover

#### **A comprehensive and accessible guide to Multi-Criteria Decision Analysis methods and software.**

In an increasingly complex and rapidly changing world, Multi-Criteria Decision Analysis (MCDA) is an important tool for decision-makers. As the growing global population is exposed to ever increasing information and choice of products and services, the need for decision aid tools becomes more apparent. Applications for MCDA extend to corporate management, environment, construction, information systems, health and many more. This book provides a broad coverage of the different MCDA methods and software available. It presents the underlying philosophy and theory of each of the principal methods whilst avoiding deep mathematical explanations to aid students, industry practitioners and researchers in the selection and use of appropriate MCDA methods.

*This book:*

- Presents the key MCDA methods, exploring the latest research.
- Examines leading software, including ELECTRE, AHP, Macbeth and Promethee.
- Takes a learning-by-doing approach: step-by-step worked examples drawn from real life experiences enable readers to learn and assess their understanding.
- Includes independent chapters; the reader is able to focus on specific methods.
- Features case studies solved with each presented MCDA method/software.
- Is supported by an accompanying website featuring free trial versions of the software along with worked examples [http://www.wiley.com/go/multi\\_criteria\\_decision\\_analysis](http://www.wiley.com/go/multi_criteria_decision_analysis)

This book is a guide for students, researchers and practitioners, working in industries where there is a need for MCDA methods, such as business, finance and applied mathematics, engineering and purchasing. The book is suitable for all levels of mathematical skill.

About the Author

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