



### Multicriteria Analysis for Environmental Decision-Making

*By Davide Geneletti*

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‘This book is an impressive combination of principles, methods and applications. Essential reading for all engaged in the field of multicriteria environmental analysis.’

—Jacek Malczewski, Professor, Department of Geography, Western University, Canada

Multicriteria analysis, or MCA, has been increasingly used in environmental decision-making to support the identification of suitable courses of action by integrating factual information with value-based information collected through stakeholder engagement.

Multicriteria Analysis for Environmental Decision-Making provides an introduction to the key concepts of MCA and includes a series of case studies that illustrate the application of MCA to a variety of environmental decision-making problems ranging from protected area zoning to landfill siting, and from forest restoration to environmental impact assessment of tourism infrastructures. A compact reference that can be used by researchers, practitioners and planners/decision makers, Multicriteria Analysis for Environmental Decision-Making can also serve as a textbook for undergraduate and postgraduate courses in a broad range of curricula.

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Acknowledgements; Notes on Contributors; Introduction; Chapter 1. Principles of Multicriteria Analysis; Chapter 2. A Review of MCA Applications for Nature Conservation; Chapter 3. Landfill Site Selection: Combining Spatial MCA with Stakeholder Analysis; Chapter 4. Protected Area Zoning: Integrating Spatial MCA and Multi-objective Evaluation; Chapter 5. Forest Landscape Restoration: Applying MCA to Design and Compare Options; Chapter 6. Impact Assessment of Ski Areas: Combining GIS Indicators with MCA; Chapter 7. Conclusions; References; Annex 1; Index.

### About the Author(s) / Editor(s)

Davide Geneletti is associate professor of spatial planning at the University of Trento, Italy, specializing in impact assessment of projects, plans and policies; ecosystem services and urban green infrastructures; and multicriteria analysis. He is the editor-in-chief of the Journal of Environmental Assessment Policy and Management and deputy editor of the open-access journal, One Ecosystem.

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