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Titolo	Multicriteria Analysis in Agriculture : Current Trends and Recent Applications / / edited by Julio Berbel, Thomas Bournaris, Basil Manos, Nikolaos Matsatsinis, Davide Viaggi
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Descrizione fisica	1 online resource (328 pages)
Collana	Multiple Criteria Decision Making, , 2366-0023
Disciplina	338.1
Soggetti	Operations research Decision making Agriculture - Economic aspects Mathematical optimization Environmental economics Game theory Forest management Operations Research/Decision Theory Agricultural Economics Optimization Environmental Economics Game Theory Forestry Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Multi-Scaling Agroclimatic Classification For Decision Support Towards Sustainable Production -- Review of multicriteria methodologies and tools for the evaluation of the provision of Ecosystem Services -- Integrating AHP and GIS techniques for rural landscape and agricultural activities planning -- The use of the Analytic Network Process for the analysis of public goods supply from agricultural systems: Advances and challenges ahead -- Allocating shadow prices in a multi-objective chance constrained problem of biodiesel blending -- Promoting small-

scale biofuel production: a qualitative GIS-OWA methodology for land suitability analysis of winter rapeseed -- Multi-criteria decision analysis: Linear and non-linear optimization of aqueous herbal extracts -- Methodology and criteria for the allocation of reused water in agriculture -- Simulating farmers' decision-making with a Cobb-Douglas MAUF. An application for an ex-ante policy analysis of water pricing -- Perceptions And Attitudes Of Greek Farmers Towards Adopting Precision Agriculture- Case Study Region Of Central Greece -- Multi-criteria optimization methods applied in agricultural touring -- Life Cycle Assessment and Multi-Criteria Analysis in agriculture. Synergies and insights.

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#### Sommario/riassunto

This book outlines the latest trends in the use of multicriteria analysis in agriculture by highlighting recent applications for modeling agricultural decision-making. It introduces specific case studies using multicriteria analysis as a method for selecting multiattribute discrete alternatives or solving multiobjective planning problems. The book is intended for a broad readership, including agricultural and environmental economists, engineers and all scientists whose work involves the management of agricultural resources and decision-making in agriculture. The methods and applications presented in this book cover decision-making processes in agricultural and environmental contexts. The methodologies described consider multiple criteria simultaneously in a wide range of complex decision-making contexts by taking into account multiple, conflicting criteria. Given the wide range of case studies covered, the book offers a comprehensive guide to decision-making in the agricultural context and beyond.

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