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Descrizione fisica	1 online resource (253 pages)
Collana	Studies in Systems, Decision and Control, , 2198-4190 ; ; 451
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Soggetti	Decision making Statistical decision
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Basic Concepts of Decision Theory -- Individual and Collective Decisions -- Group Ordering of Multi-Attribute Objects. .
Sommario/riassunto	This book describes an original approach to solving tasks of individual and collective choice: classification, ranking, and selection of multi-attribute objects. Object representation with multisets allows considering simultaneously numerical and symbolic variables. In group verbal decision analysis, judgments of all participants are taken into account without a compromise between contradictory. Natural language is used to describe problems and objects, formalize knowledge of experts and preferences of decision makers, and explain results. Verbal methods and technologies are more transparent, less laborious for a person, and weakly sensitive to measurement errors. The book also includes examples of applying new tools in real ill-structured high-dimensional choice tasks. It is intended for researchers, managers, consultants, analysts, and developers as well as for teachers and students of applied mathematics, computer science, information processing, engineering, economics, and management.