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Titolo	A Paraconsistent Decision-Making Method // by Fábio Romeu de Carvalho, Jair Minoro Abe
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ISBN	3-319-74110-1
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Descrizione fisica	1 online resource (XVIII, 211 p.)
Collana	Smart Innovation, Systems and Technologies, , 2190-3018 ; ; 87
Disciplina	006.3
Soggetti	Computational intelligence Artificial intelligence Robotics Automation Computational Intelligence Artificial Intelligence Robotics and Automation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Logic -- Paraconsistent annotated evidential logic -- Decision rules -- The decision-making process - paraconsistent decision method (PDM) -- Calculation program for the paraconsistent decision method - (PDM' s CP) -- Application examples -- Comparison between the paraconsistent decision method (PDM) and the statistical decision method (EDM) -- A simplified version of the fuzzy decision method and its comparison to the paraconsistent decision method -- Complementary reading: an example from everyday life -- An overview of more applications.
Sommario/riassunto	This book presents a novel decision-making support system based on paraconsistent annotated evidential logic, which directly handles imprecise, incomplete and contradictory data. The authors offer insights into areas such as engineering and biomedicine, as well as related fields. Decision analysis is useful in making choices when the consequences of actions are uncertain, like in business administration, where it assists in making investment decisions, and in health care,

Decision analysis is also valuable when the possible actions may lead to conflicting consequences. A fundamental tenet of decision analysis is that even though the available information is incomplete, a decision must be made. Thus, analyses often contain assumptions about or estimates of missing data. The contribution that this method can provide to professionals and companies has significant relevance in terms of the impact of information systems on productivity and quality of the companies; the lack of training companies for proper planning and management of information systems; and the need for interdisciplinary treatment of several sectors of almost all related scientific areas. This book is a valuable resource for professionals seeking a competitive edge in their performance. .

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