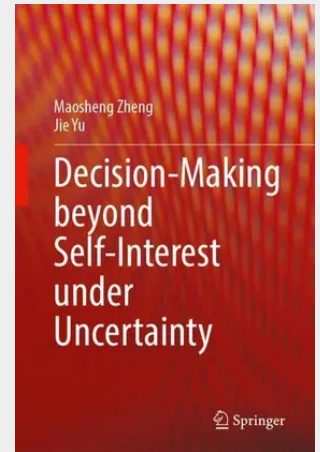


Decision-Making beyond Self-Interest under Uncertainty

This book presents the new sight on decision-making under uncertainty with probability-based method in detail, it involves quantitative optimal decision-making for problems with interval values of parameters, reliability optimization and decision-making, fuzzy decision-making, quantitative decision-making under uncertain scenarios, analysis of several problems in game theory, and decision-making of unquantifiable problems. It emphasizes that decision-making must be based on the wholeness (integrity) of the problems involved, and the probability-based approaches are formulated in the viewpoint of systems theory and probability theory to conduct the corresponding evaluations. Besides, in the analysis of several problems in Game Theory, and decision-making of unquantifiable problems, it advocates a long-term and cooperative perspective, rather than the self-interested arguments like those in "Chicken Game", "Prisoner's Dilemma" and "Intelligent Pig Game", and so on, so as to achieve the overall long-term harmonious symbiosis. The book is intended for researchers, professionals, graduate students, and upper undergraduate, who are interested in exploring decision-making problems in new sight.

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