



Sensitivity Analysis in Multi-objective Decision Making (Lecture Notes in Economics and Mathematical Systems)

David Rios Insua

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The axiomatic foundations of the Bayesian approach to decision making assume precision in the decision maker's judgements. In practice, decision makers often provide only partial and/or doubtful information. We unify and expand results to deal with those cases introducing a general framework for sensitivity analysis in multi-objective decision making. We study first decision making problems under partial information. We provide axioms leading to modelling preferences by families of value functions, in problems under certainty, and modelling beliefs by families of probability distributions and preferences by families of utility functions, in problems under uncertainty. Both problems are treated in parallel with the same parametric model. Alternatives are ordered in a Pareto sense, the solution of the problem being the set of non dominated alternatives. Potentially optimal solutions also seem acceptable, from an intuitive point of view and due to their relation with the nondominated ones. Algorithms are provided to compute these solutions in general problems and in cases typical in practice: linear and bilinear problems. Other solution concepts are criticised on the grounds of being ad hoc. In summary, we have a more robust theory of decision making based on a weaker set of axioms, but embodying coherence, since it essentially implies carrying out a family of coherent decision analyses.

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