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## Philosophy : Philosophy of Science

Hansson, Sven Ove, Hirsch Hadorn, Gertrude (Eds.), Royal Institute of Technology, Stockholm, Sweden

# The Argumentative Turn in Policy Analysis

## Reasoning about Uncertainty

- First to present a new trend in the analysis of uncertainty, namely the use of specialised argumentation analysis for decision support
- Includes in-depth discussions of key issues in decision-making. Deals in a systematic way with multiple perspectives on decision problems and unknown consequences of what we do
- Offers a series of in-depth case studies showing the practical relevance of the more theoretical parts of the book

This book describes argumentative tools and strategies that can be used to guide policy decisions under conditions of great uncertainty. Contributing authors explore methods from philosophical analysis and in particular argumentation analysis, showing how it can be used to systematize discussions about policy issues involving great uncertainty. The first part of the work explores how to deal in a systematic way with decision-making when there may be plural perspectives on the decision problem, along with unknown consequences of what we do. Readers will see how argumentation tools can be used for prioritizing among uncertain dangers, for determining how decisions should be framed, for choosing a suitable time frame for a decision, and for systematically choosing among different decision options. Case studies are presented in the second part of the book, showing argumentation in practice in the areas of climate geoengineering, water governance, synthetic biology, nuclear waste, and financial markets. In one example, argumentation analysis is applied to proposals to solve the climate problem with various technological manipulations of the natural climate system, such as massive dispersion of reflective aerosols into the stratosphere. Even after a thorough investigation of such a proposal, doubt remains as to whether all the potential risks have been identified. In such discussions, conventional risk analysis does not have much to contribute since it presupposes that the risks have been identified, whereas the argumentative approach to uncertainty management can be used to systematize discussions.

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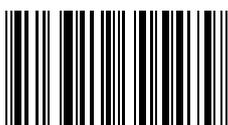
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