

# On the Classical Decision Problem \*

Yuri Gurevich <sup>†</sup>

- *Author:* Hello, my friend. What is on your mind today?
- *Quisani:* Decidable and undecidable fragments of first-order logic. People refer to this field as Entscheidungsproblem or the classical decision problem. I wanted to see a global picture, without going into too many details, and failed. You worked in the field, didn't you? Can you shed some light?
- *A:* I am surprised. Decidability, you joked the other day, is a red herring.
- *Q:* I did? Well, there is no doubt in my mind that feasibility is the real issue, but I keep bumping into the classical decision problem. Most recently, this happened when I looked up a paper of Kolaitis and Vardi [KV] on the 0-1 law. (This law is, by the way, another issue I would like to discuss with you sometime.) Besides, the two issues – decidability and feasibility – are obviously related. Undecidability implies nonfeasibility, and nonfeasibility proofs (e.g. proofs of completeness for NP or exponential time) are often fashioned after undecidability proofs.

Speaking about surprises, I was surprised too. Apparently, the classical decision problem was tremendously popular among logicians. Even Gödel worked on it. This puzzles me. Logicians are so philosophically minded. Why all that interest in what seems to be a rather technical question?

- *A:* Let me start from the beginning. The original Entscheidungsproblem was posed, I guess, by Hilbert. It may be stated as a satisfiability or validity problem: Given a first-order formula  $\phi$ , decide whether  $\phi$  is satisfiable (respectively, valid). Proof theorists usually prefer the validity version whereas model theorists prefer the satisfiability version. I am more used to the satisfiability version; let me choose it to be the default.
- *Q:* What first-order formulas are you talking about? Do you allow equality, function symbols? They make a big deal out of such details in that field.

\*Logic in Computer Science Column, The Bulletin of EATCS, October 1990

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# The Classical Decision Problem

**Mary Uhl-Bien, Ronald F. Piccolo, John  
R. Schermerhorn, Jr.**

## **The Classical Decision Problem** **The Classical Decision Problem:**

**The Classical Decision Problem** Egon Börger, Erich Grädel, Yuri Gurevich, 2001-08-28 This book offers a comprehensive treatment of the classical decision problem of mathematical logic and of the role of the classical decision problem in modern computer science. The text presents a revealing analysis of the natural order of decidable and undecidable cases and includes a number of simple proofs and exercises

**The Classical Decision Problem ...** Börger, 1987 **The Classical Decision Problem** Egon Börger, Erich Grädel, Yuri Gurevich, 1997 This book offers a comprehensive treatment of the classical decision problem of mathematical logic and of the role of the classical decision problem in modern computer science. The text presents a revealing analysis of the natural order of decidable and undecidable cases and includes a number of simple proofs and exercises

**The Classical Decision Problem** Egon Boerger, Egon Börger, Erich Grädel, Yuri Gurevich, 1997 This is the most comprehensive treatment available in book form of the classical decision problem of mathematical logic and of the role of the classical decision problem in modern computer science. A revealing analysis of the natural order of decidable and undecidable cases is given. The complete classification of the solvable and unsolvable standard cases of the classical decision problem will be of particular interest to the reader. The classification comes complete with the complexity analysis of the solvable cases with the comprehensive treatment of the reduction method and with the model theoretical analysis of solvable cases. Many cases are treated here for the first time and a great number of simple proofs and exercises have been included. The results and methods of the book are extensively used in logic computer science and artificial intelligence

**The Emergent Multiverse** David Wallace, 2012-05-24 Presenting a striking new account of the many worlds approach to quantum theory aka the Everett interpretation David Wallace offers a clear and up to date survey of work on this theory in physics and in philosophy of science

*On the Admissibility of Improper Bayes Inferences in Fair Bayes Decision Problems* Bradford Willingham Johnson, 1991

*Epistemic Foundations of Fuzziness* K. K. Dompere, Kofi Kissi Dompere, 2009-03-13

This monograph is a treatment on optimal fuzzy rationality as an enveloping of decision choice rationalities where limited information vagueness ambiguities and inexactness are essential characteristics of our knowledge structure and reasoning processes. The volume is devoted to a unified system of epistemic models and theories of decision choice behavior under total uncertainties composed of fuzzy and stochastic types. The unified epistemic analysis of decision choice models and theories begins with the question of how best to integrate vagueness ambiguities limited information subjectivity and approximation into the decision choice process. The answer to the question leads to the shifting of the classical paradigm of reasoning to fuzzy paradigm. This is followed by discussions and establishment of the epistemic foundations of fuzzy mathematics where the nature and role of information and knowledge are explicated and represented. The epistemic foundation allows total uncertainties that constrain decision choice activities knowledge enterprise logic and mathematical structures as our cognitive instruments to be discussed in reference to the phenomena of fuzzification defuzzification and fuzzy logic. The

discussions on these phenomena lead us to analyze and present models and theories on decision choice rationality and the needed mathematics for problem formulation reasoning and computations The epistemic structures of two number systems made up of classical numbers and fuzzy numbers are discussed in relation to their differences similarities and relative relevance to decision choice rationality The properties of the two number systems lead to the epistemic analysis of two mathematical systems that allow the partition of the mathematical space in support of decision choice space of knowledge and non knowledge production into four cognitively separate but interdependent cohorts whose properties are analyzed by the methods and techniques of category theory The four cohorts are identified as non fuzzy and non stochastic non fuzzy and stochastic both of which belong to the classical paradigm and classical mathematical space and fuzzy and non stochastic and fuzzy and stochastic cohorts both of which belong to the fuzzy paradigm and fuzzy mathematical space The differences in the epistemic foundations of the two mathematical systems are discussed The discussion leads to the establishment of the need for fuzzy mathematics and computing as a new system of reasoning in both exact and inexact sciences The mathematical structures of the cohorts are imposed on the decision choice process to allow a grouping of decision choice models and theories The corresponding classes of decision choice theories have the same characteristics as the logico mathematical cohorts relative to the assumed information knowledge structures The four groupings of models and theories on decision choice activities are then classified as 1 non fuzzy and non stochastic class with exact and full information knowledge structure no uncertainty 2 non fuzzy and stochastic class with exact and limited information knowledge structure stochastic uncertainty 3 fuzzy and non stochastic class with full and fuzzy information knowledge structure fuzzy uncertainty and 4 Fuzzy and stochastic class with fuzzy and limited information knowledge structure fuzzy and stochastic uncertainties All these different classes of decision choice problems have their corresponding rationalities which are fully discussed to present a unified logical system of theories on decision choice process The volume is concluded with epistemic discussions on the nature of contradictions and paradoxes viewed as logical decision choice problems in the classical paradigm and how these contradictions and paradoxes may be resolved through fuzzy paradigm and the methods and techniques of optimal fuzzy decision choice rationality The logical problem of sorites paradox with its resolution is given as an example Interested audience includes those working in the areas of economies decision choice theories philosophy of sciences epistemology mathematics computer science engineering cognitive psychology fuzzy mathematics and mathematics of fuzzy stochastic processes

**Decision Making Process** Denis Bouyssou,Didier Dubois,Henri Prade,Marc Pirlot,2013-05-10 This book provides an overview of the main methods and results in the formal study of the human decision making process as defined in a relatively wide sense A key aim of the approach contained here is to try to break down barriers between various disciplines encompassed by this field including psychology economics and computer science All these approaches have contributed to progress in this very important and much studied topic in the past but none have proved sufficient so far to define a complete

understanding of the highly complex processes and outcomes This book provides the reader with state of the art coverage of the field essentially forming a roadmap to the field of decision analysis The first part of the book is devoted to basic concepts and techniques for representing and solving decision problems ranging from operational research to artificial intelligence Later chapters provide an extensive overview of the decision making process under conditions of risk and uncertainty Finally there are chapters covering various approaches to multi criteria decision making Each chapter is written by experts in the topic concerned and contains an extensive bibliography for further reading and reference **Organizational Behavior** Mary Uhl-Bien, Ronald F. Piccolo, John R. Schermerhorn, Jr., 2023-05-23 An accessible and practical discussion of organizational behavior In the newly updated third edition of *Organizational Behavior* a team of accomplished educators delivers a multidimensional text that combines analysis knowledge personal development and synthesis with useful pedagogical features that bring organizational behavior to life This edition reconsiders organizational behavior from an interdisciplinary vantage point showing students the interdependence of factors that explain human behavior Frequently addressed organizational behavior subjects are considered from within an integrated framework and are employed to answer functionally relevant questions about why people behave the ways in which they do as well as how to effectively influence and manage others **Approximate Reasoning in Decision Analysis** Madan M. Gupta, Elie Sanchez, 1982

**Proceedings** American Institute for Decision Sciences. Meeting, 1972 **Organizational Decision Processes** Ronald J. Ebert, Terence R. Mitchell, 1975 **Generalized Constraint Diagrams** James Burton, 2011 *Proceedings of the Biometrics Section* American Statistical Association. Biometrics Section, 1999 **Management** John R. Schermerhorn, Jr., Daniel G. Bachrach, 2025-09-03 Inspire students to be responsible and self aware decision makers Management 16th Edition supports active and engaged course environments while centralizing new topics such as artificial intelligence diversity equity inclusion and social impact With a focus on career application the underlying goal is to translate foundational theories into lasting tools for students as they move beyond the classroom where their skills will be put to the test

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