

Explorations in Probabilistic Metaphysics

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Abstract

This paper advances the idea that the mathematical idea of probability could offer a formal foundation for the exploration of affectant metaphysics. This foundation is developed using 12 analyses based on an understanding of logic, mathematics and mystical philosophy.

Keywords: Probability, Philosophy.

1 The 12 Analyses

Analysis 1 (A1: Probability) *The probability, $\mathcal{P}(e)$ for an event e , is a positive fractional number [5] $\mathcal{P}(e) \in \mathbb{R}_{[0,1]}^+$ with the property*

$$\mathcal{P}(e) = \begin{cases} 0 & : \text{it is absolutely certain } e \text{ shall never occur} \\ 1 & : \text{ } e \text{ is certainly bound to occur always} \\ (0, 1) & : \text{it is certain } e \text{ shall not always occur} \end{cases}$$

Analysis 2 (A2) $\mathcal{P}(e) = \sigma$ associates a number σ to the event e , relative to the frequency or likelihood of e occurring in a set of observations $\{e\}$ especially when $|\{e\}| \rightarrow \infty$

Analysis 3 (A3) *If we consider the degree of belief $\mathcal{D}(e)$, to be the number μ that limits the relative frequency of event e , then we could, without loss of certainty, say that*

$$\mathcal{D}(e) = \mathcal{P}(e) = \mu \quad \forall e \in \{e\}, \mu \in \mathbb{R}_{[0,1]}^+$$

Analysis 4 (A4: Likelihood Space) $\{e\}$ is also the set of all possible events in the likelihood space $\{e^*\}$, which means any event e other than e , capable of occurring in the same class or family as e , likewise shares the same basis properties or characteristics. That is

$$[e] = [e] \quad \forall e, e \in \{e^*\}$$

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Probabilistic Metaphysics

Peipei Pang



Probabilistic Metaphysics:

Probabilistic Metaphysics Patrick Suppes,1970

Probabilistic Metaphysics Patrick Suppes,1974

Klimahaftungsrecht Erik Pöttker,2014-06-06 English summary Is it possible to hold greenhouse gas emitters liable for damages as a consequence of climate change In light of the recently inflamed climate change litigation Erik Pottker compares the Climate liability law of Germany and the United States of America Standards are therefore the guarantee of maximum property protection for individuals and an economically as well as an ecologically sensible influence over the behavior of emitters The focus of the investigation presents the two determinants of liability law causality and the liability for the violation of obligations The study also tests the standards found in liability law for just remuneration and the assignment of responsibility even in the case of complex organizations which are typical for modern society The analysis ends in a commentary on whether a liability law based form of climate protection is desirable and practical German description Haften Treibhausgasemittenten für Schaden infolge des Klimawandels Aus Anlass der jüngst entflammten climate change litigation vergleicht Erik Pottker das Klima Haftungsrecht Deutschlands und der Vereinigten Staaten von Amerika Massstäbe sind dabei die Gewährleistung maximalen Individualrechtsguterschutzes und eine ökonomisch wie ökologisch sinnvolle Verhaltenssteuerung Den Schwerpunkt der Untersuchung bilden die beiden Determinanten des Haftungsrechts die Kausalität und das Pflichtwidrigkeitserfordernis Geprüft wird dabei nicht zuletzt der Gerechtigkeitsgehalt des haftungsrechtlichen Normenbestandes bezüglich der Verantwortungszuweisung auch in komplexen Strukturen wie sie für moderne Gesellschaften typisch sind Die Analyse mündet in eine Stellungnahme dazu ob ein haftungsrechtlicher Klimaschutz wünschenswert und praktikabel ist **Handbook of Metaphysics and Ontology** Hans Burkhardt,Barry Smith,1991

The Metaphysical Nature of the Non-adequacy Claim Carlotta Piscopo,2013-02-01 Over the last two decades the field of artificial intelligence has experienced a separation into two schools that hold opposite opinions on how uncertainty should be treated This separation is the result of a debate that began at the end of the 1960 s when AI first faced the problem of building machines required to make decisions and act in the real world This debate witnessed the contraposition between the mainstream school which relied on probability for handling uncertainty and an alternative school which criticized the adequacy of probability in AI applications and developed alternative formalisms The debate has focused on the technical aspects of the criticisms raised against probability while neglecting an important element of contrast This element is of an epistemological nature and is therefore exquisitely philosophical In this book the historical context in which the debate on probability developed is presented and the key components of the technical criticisms therein are illustrated By referring to the original texts the epistemological element that has been neglected in the debate is analyzed in detail Through a philosophical analysis of the epistemological element it is argued that this element is metaphysical in Popper s sense It is shown that this element cannot be tested nor possibly disproved on the basis of experience and is therefore extra scientific li

is established that a philosophical analysis is now compelling in order to both solve the problematic division that characterizes the uncertainty field and to secure the foundations of the field itself Kausalitätsprobleme, Determinismus und Indeterminismus Ursachen und Inus-Bedingungen Probabilistische Theorie und Kausalität Wolfgang Stegmüller, 2013-12-12 **Probability and Causality** J.H. Fetzer, 2012-12-06 The contributions to this special collection concern issues and problems discussed in or related to the work of Wesley C Salmon Salmon has long been noted for his important work in the philosophy of science which has included research on the interpretation of probability the nature of explanation the character of reasoning the justification of induction the structure of space time and the paradoxes of Zeno to mention only some of the most prominent During a time of increasing preoccupation with historical and sociological approaches to understanding science which characterize scientific developments as though they could be adequately analysed from the perspective of political movements even mistaking the phenomena of conversion for the rational appraisal of scientific theories Salmon has remained steadfastly devoted to isolating and justifying those normative standards distinguishing science from non science especially through the vindication of general principles of scientific procedure and the validation of specific examples of scientific theories without which science itself cannot be even remotely adequately understood In this respect Salmon exemplifies and strengthens a splendid tradition whose most remarkable representatives include Hans Reichenbach Rudolf Carnap and Carl G Hempel all of whom exerted a profound influence upon his own development Probabilistic Causality Joonsung Kim, 2002 Theories of Probabilistic Causality Joseph David Bessie, 1991 *The Journal of Philosophy*, 1926 Covers topics in philosophy psychology and scientific methods Vols 31 include A Bibliography of philosophy 1933 Gesammelte Werke Christian Freiherr von Wolff, 1962 **Kausalität, Determinismus und Zufall in der wissenschaftlichen Naturbeschreibung** Günter Koch, 1994 Operational Subjective Statistical Methods Frank Lad, 1996-09-27 The mathematical implications of personal beliefs and values in science and commerce Amid a worldwide resurgence of interest in subjectivist statistical method this book offers a fresh look at the role of personal judgments in statistical analysis Frank Lad demonstrates how philosophical attention to meaning provides a sensible assessment of the prospects and procedures of empirical inferential learning Operational Subjective Statistical Methods offers a systematic investigation of Bruno de Finetti's theory of probability and logic of uncertainty which recognizes probability as the measure of personal uncertainty at the heart of its mathematical presentation It identifies de Finetti's fundamental theorem of coherent provision as the unifying structure of probabilistic logic and highlights the judgment of exchangeability rather than causal independence as the key probabilistic component of statistical inference Broad in scope yet firmly grounded in mathematical detail this text reference Invites readers to address the subjective personalist meaning of probability as motivating the mathematical construction Contains numerous examples and problems including computing problems using Matlab assuming no background in Matlab Explains how to use the material in three distinct sequential

courses in math and statistics as well as in courses at the graduate level in applied fields Provides an introductory basis for understanding more complex structures of statistical analysis Complete with fifty illustrations Operational Subjective Statistical Methods makes an intriguing discipline accessible to professionals students and the interested general reader It contains a wealth of teaching and research material and offers profound insight into the relationship between philosophy faith and scientific method **The Philosophical Review** ,1987 Bibliographie internationale des recensions de la littérature savante ,1974 **South African Journal of Philosophy** ,1989 Boston Studies in the Philosophy of Science Maria Carla Galavotti,2003 **Perspektiven der Philosophie** ,1986 **Causality and Probability in the Sciences** Federica Russo,Jon Williamson,2007 Causal inference is perhaps the most important form of reasoning in the sciences A panoply of disciplines ranging from epidemiology to biology from econometrics to physics make use of probability and statistics in order to infer causal relationships However the very foundations of causal inference are up in the air it is by no means clear which methods of causal inference should be used nor why they work when they do This book brings philosophers and scientists together to tackle these important questions The papers in this volume shed light on the relationship between causality and probability and the application of these concepts within the sciences With its interdisciplinary perspective and its careful analysis Causality and Probability in the Sciences heralds the transition of causal inference from an art to a science *Zeitschrift für philosophische Forschung* ,1987

Probabilistic Metaphysics Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Probabilistic Metaphysics**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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