Postwar uncertainty guided answers Full PDF

Decision-Making Experiments under a Philosophical Analysis: Human Choice as a Challenge for Neuroscience

Decision-Making Experiments under a Philosophical Analysis: Human Choice as a Challenge for Neuroscience

2015-10-15

this introduction just aims to be a fast foreword to the special topic now turned into an e book the editorial decision making experiments under a philosophical analysis human choice as a challenge for neuroscience alongside with my opinion article neurophilosophical considerations on decision making pushing up the frontiers without disregarding their foundations play the real role of considering in more details the articles and the whole purpose of this e book what i must highlight in this foreword is that our intention with such a project was to deepen into the very foundations of our current paradigms in decision neuroscience and to philosophically moot its foundations and repercussions normal science a term coined by philosopher thomas kuhn works under a research consensus among a scientific community a shared paradigm consolidated methods widespread convictions pragmatically winning formulas must be kept although not at any cost what differentiates a gifted and revolutionary scientist from a more bureaucratic colleague is the capacity and willingness of constantly reevaluating depurating and refining his her own paradigm that is best strategy to avoid that a paradigm itself would gradually come under challenge in my view some achievements in this sense were brought about in our project the e book will be inspiring and informative for both neuroscientists that are concerned with the very foundations of their works and for philosophers that are not blind to empirical evidence kant once said thoughts without content are empty intuitions without concepts are blind paraphrasing kant we could say philosophy without science is empty science without philosophy is blind

Guided Inquiry Design® in Action

2016-12-05

edited by the cocreator of the guided inquiry design gid framework as well as an educator speaker and international consultant on the topic this book explains the nuances of gid in the high school context it also addresses background research and explains guided inquiry and the information search process today s students need to be able to think creatively to solve problems they need to be in learning environments that incorporate collaboration discussion and genuine reflection to acquire these kinds of real world skills guided inquiry design in action high school gives teachers and librarians lesson plans created within the proven gid framework specifically designed for high school students and provides the supporting information and guidance to use these lesson plans successfully you ll find the lesson plans and complete units of guided inquiry design clear and easy to implement and integrate into your existing curriculum in all areas from science to humanities to social studies these teaching materials are accompanied by explanations of critical subjects such as the gid framework using guided inquiry as the basis for personalized learning using inquiry tools for assessment of learning in high school and applying teaching strategies that increase student investment and foster critical thinking and deeper learning
medical uncertainty has been with us for centuries and remains a recurrent problem for patients doctors and researchers alike yet uncertainty in health care is still poorly understood and ineffectively managed it is generally feared and avoided rather than directly confronted this systemic disregard of uncertainty leads us to treat medical uncertainty as a pathological condition to be cured through the pursuit of knowledge but often further medical knowledge begets further uncertainty in kind uncertainty in medicine offers an alternative multi disciplinary perspective on this challenging problem integrating insights across clinical medicine and social science dr paul han argues that uncertainty is an essential form of knowledge to be cultivated rather than eradicated in medical practice he makes the case that the paradigm of medicine should be expanded to include not only the pursuit of medical knowledge but the treatment and palliation of medical uncertainty and its effects on physicians other health professionals and patients using clear language and a textbook approach he analyzes the nature etiology and natural history of medical uncertainty and develops a conceptual framework to guide its management by promoting a more systematic way of conceptualizing the problem this framework can enable clinicians and patients to better address medical uncertainty and can help make uncertainty tolerance a more central focus of medical care rational and reassuring uncertainty in medicine forges a new path for approaching medical uncertainty by arming readers from an array of disciplines with the tools they need to diagnose treat and confront its challenges more intentionally and effectively

Communicating Certainty and Uncertainty in Medical, Supportive and Scientific Contexts

2014-11-15

this volume is a collection of 18 papers on the communication of certainty and uncertainty the first part introduces recent theoretical developments and general models on the topic and its relations with modality subjectivity inter subjectivity epistemicity evidentiality hedging mitigation and speech acts in the second part results from empirical studies in medical and supportive contexts are presented all of which are based on a conversational analysis approach these papers report on professional dialogues including advice giving in gynecological consultations breaking diagnostic bad news to patients emergency calls addiction therapeutic community meetings and bureaucratic institutional interactions the final part concerns the qualitative and quantitative analysis of corpora addressing scientific writing both research and popular articles and academic communication in english german spanish and romanian the collection is addressed to scholars concerned with the topical issues from a theoretical and analytical perspective and to health professionals interested in the practical implications of communicating certainty or uncertainty

The Uncertainty Analysis of Model Results

2018-05-02

this book is a practical guide to the uncertainty analysis of computer model applications used in many areas such as engineering ecology and economics computer models are subject to various uncertainties at the level of model formulations parameter values and input data naturally it would be advantageous to know the combined effect of these uncertainties on the model results as well as whether the state of knowledge should be improved in order to reduce the uncertainty of the results most effectively the book supports decision makers model developers and users in their argumentation for an uncertainty analysis and assists them in the interpretation of the analysis results

Guided Participation in Pediatric Nursing Practice

2018-05-28

the first book about guided participation written for nurses this authoritative publication delivers an in depth examination of guided participation gp a dynamic process of teaching and learning that parents and guardians
have used for generations to help their charges become self reliant gp is helping another person become competent by providing expertise working alongside the learner for the nurse specifically this means educating and working alongside parents and children within an environment that supports health consistent with client and family centered practice this fresh approach to nurse client teaching is drawn a broad span of disciplines including education social and cultural anthropology relationship based attachment caregiving theory and developmental science written for students and practitioners who wish to incorporate gp into their practice and for managers administrators and policy makers who support its implementation this resource demonstrates the value of gp as a new and emerging health care model that integrates care across health care settings the text describes step by step how to practice gp discusses support systems to maintain gp past the initial treatment with abundant case studies examples and research findings chapters analyze how gp can promote health prevent acute and chronic illness and adjust old patterns of living and behaviors key features includes video clips that illustrate how guided participation is applied in a variety of clinical practice settings provides access to self directed online instruction links to online journal case studies additional chapters and references features downloadable parent checklists and teaching guides discusses effective application of guided participation to all aspects of pediatric nursing care in a variety of practice settings includes numerous case studies and examples with specific components identified to help readers learn theory and related concepts learn to apply guided participation by joining the case based online course offered at university of wisconsin madison

**Image-Guided Radiotherapy of Lung Cancer**

2007-09-20

lung cancer is the leading cause of cancer death in the united states but igrt image guided radiation therapy offers the possibility of more aggressive and enhanced treatments the only available source on the subject that emphasizes new imaging techniques and provides step by step treatment guidelines for lung cancer this source helps clinicians

**Principles and Practice of Image-Guided Radiation Therapy of Lung Cancer**

2017-09-18

this book gives a comprehensive overview on the use of image guided radiation therapy igrt in the treatment of lung cancer covering step by step guidelines for clinical implementations fundamental principles and key technical advances it covers benefits and limitations of techniques as well as quality and safety issues related to igrt practice addresses imaging simulation treatment planning verification and delivery discusses important quality assurance issues describes current methods using specialized machines and technologies jing cai phd is an associate professor of radiation oncology at duke university medical center joe y chang md phd is professor in the department of radiation oncology at the university of texas md anderson cancer center in houston fang fang yin phd is chief of the division of radiation physics professor of radiation oncology and director of the medical physics program at duke university

**Russia's Politics of Uncertainty**

1997-08-28

explores the political reactions of elites and society in the russian federation after the collapse of communist party rule and the break up of the ussr

**Handling Uncertainty and Networked Structure in Robot Control**

2016-02-06
this book focuses on two challenges posed in robot control by the increasing adoption of robots in the everyday human environment uncertainty and networked communication part i of the book describes learning control to address environmental uncertainty part ii discusses state estimation active sensing and complex scenario perception to tackle sensing uncertainty part iii completes the book with control of networked robots and multi robot teams each chapter features in depth technical coverage and case studies highlighting the applicability of the techniques with real robots or in simulation platforms include mobile ground aerial and underwater robots as well as humanoid robots and robot arms source code and experimental data are available at extras springer com the text gathers contributions from academic and industry experts and offers a valuable resource for researchers or graduate students in robot control and perception it also benefits researchers in related areas such as computer vision nonlinear and learning control and multi agent systems

Floods in a Changing Climate

2012-11-22

flood risk management is presented in this book as a framework for identifying assessing and prioritizing climate related risks and developing appropriate adaptation responses rigorous assessment is employed to determine the available probabilistic and fuzzy set based analytic tools when each is appropriate and how to apply them to practical problems academic researchers in the fields of hydrology climate change environmental science and policy and risk assessment and professionals and policy makers working in hazard mitigation water resources engineering and environmental economics will find this an invaluable resource this volume is the fourth in a collection of four books on flood disaster management theory and practice within the context of anthropogenic climate change the others are floods in a changing climate extreme precipitation by ramesh teegavarapu floods in a changing climate hydrological modelling by p p mujumdar and d nagesh kumar and floods in a changing climate inundation modelling by giuliano di baldassarre

Survival under Uncertainty

2016-06-28

this book introduces and studies a number of stochastic models of subsistence communication social evolution and political transition that will allow the reader to grasp the role of uncertainty as a fundamental property of our irreversible world at the same time it aims to bring about a more interdisciplinary and quantitative approach across very diverse fields of research in the humanities and social sciences through the examples treated in this work including anthropology demography migration geopolitics management and bioecology among other things evidence is gathered to show that volatile environments may change the rules of the evolutionary selection and dynamics of any social system creating a situation of adaptive uncertainty in particular whenever the rate of change of the environment exceeds the rate of adaptation last but not least it is hoped that this book will contribute to the understanding that inherent randomness can also be a great opportunity for social systems and individuals alike to help face the challenge of survival under uncertainty

Coping with Uncertainty

2018-08-13

seven years after the arab uprisings the social situation has deteriorated across the middle east and north africa political economic and personal insecurities have expanded while income from oil declined and tourist revenues have collapsed due to political instability against a backdrop of escalating armed conflicts and disintegrating state structures many have been forced from their homes creating millions of internally displaced persons and refugees young people are often the ones hit hardest by the turmoil how do they cope with these ongoing uncertainties and what drives them to pursue their own dreams in spite of these hardships in this landmark volume an international interdisciplinary team of researchers assess a survey of 9 000 sixteen to thirty year olds from bahrain egypt jordan lebanon morocco palestine syria tunisia and yemen resulting in the most comprehensive in depth study of young people in the mena region to date given how rapidly events have moved in the middle east and north africa the findings are in many regards unexpected
Uncertainty Quantification Techniques in Statistics

2020-04-03

Uncertainty quantification (UQ) is a mainstream research topic in applied mathematics and statistics to identify UQ problems. Diverse modern techniques for large and complex data analyses have been developed in applied mathematics, computer science, and statistics. This special issue of Mathematics ISSN 2227-7390 includes diverse modern data analysis methods such as skew reflected Gompertz information quantifiers with application to sea surface temperature records, the performance of variable selection and classification via a rank-based classifier, and two-stage classification with SIS using a new filter ranking method in high throughput data. An estimation of sensitive attribute applying geometric distribution under probability proportional to size sampling combined with ensembles of regularized regression models with resampling-based LASSO feature selection in high-dimensional data. Robust linear trend test for low coverage next-generation sequence data. Controlling for covariates and comparing groups of decision making units in efficiency based on semiparametric regression.

Data-Guided Healthcare Decision Making

2023-05-31

How does data evidence matter in decision making in healthcare? How do you implement and maintain cost-effective healthcare operations? Do decision trees help to sharpen decision making? This book will answer these questions by demystifying the many questions by clearly showing how to analyze data and how to interpret the results. Vital skills for anyone who will go on to work in health administration in hospitals, clinics, pharmaceutical or insurance industries. Written by an expert in health and medical informatics, this book introduces readers to the fundamentals of operational decision making by illustrating the ideas and tools to reach optimal healthcare drawing on numerous healthcare data sets from multiple sources aimed at an audience of graduate students and lecturers in health administration and business administration courses. This book includes up-to-date concepts, new methodologies, and interpretations using widely available software like Excel, Microsoft Mathematics, MATHSOLVER, and JASP.

A Guided Tour of Light Beams

2016-12-07

From science fiction death rays to supermarket scanners, lasers have become deeply embedded in our daily lives and our culture. But in recent decades, the standard laser beam has evolved into an array of more specialized light beams with a variety of strange and counterintuitive properties. Some of them have the ability to reconstruct themselves after disruption by an obstacle, while others can bend in complicated shapes or rotate like a corkscrew. These unusual optical effects open new and exciting possibilities for science and technology. For example, they make possible microscopic tractor beams that pull objects toward the source of the light, and they allow the trapping and manipulation of individual molecules to construct specially tailored nanostructures for engineering or medical use. It has even been found that beams of light can produce lines of darkness that can be tied in knots. This book is an introductory survey of these specialized light beams and their scientific applications at a level suitable for undergraduates with a basic knowledge of optics and quantum mechanics. It provides a unified treatment of the subject collecting together in textbook form for the first time many topics currently found only in the original research literature.

Scalable Uncertainty Management

2018-09-24

This book constitutes the refereed proceedings of the 12th international conference on scalable uncertainty management (SUM) 2018, which was held in Milan, Italy, in October 2018. The 23 full and 6 short papers and 2 tutorials presented in this volume were carefully reviewed and selected from 37 submissions. The conference is dedicated to the management of large amounts of complex uncertain incomplete or inconsistent information. New approaches have been developed on imprecise probabilities, fuzzy set theory, rough set theory, ordinal uncertainty representations, or even purely qualitative models.
Uncertainty and Quality in Science for Policy

1990-10-31

this book explains the notational system nusap numeral unit spread assessment pedigree and applies it to several examples from the environmental sciences the authors are now making further extensions of nusap including an algorithm for the propagation of quality grades through models used in risk and safety studies they are also developing the concept of post normal science in which quality assurance of information requires the participation of extended peer communities lying outside the traditional expertise

Uncertainty: A Catalyst for Creativity, Learning and Development

2022-07-18

this edited volume brings together a group of international researchers and theorists from various intellectual and analytic traditions to explore the role uncertainty plays in creativity learning and development contributors to this volume draw on existing programs of research as well as introduce new and even speculative directions for research theory and practice learning and life are filled with uncertainty although the experience of uncertainty can cause emotional discomfort or cognitive rigidity uncertainty serves as a catalyst and condition for change in this way uncertainty represents a core facet in the interrelationship among creativity learning and development considerations for both the benefits and potential costs of uncertainty will be addressed in this volume with an aim of understanding how uncertainty can be better understood in light of creativity learning and development taken together this volume stands to contribute to our collective understanding of the role that uncertainty plays in learning and life and highlights how conceptualizing and studying uncertainty in new ways can promote positive and lasting change

Inequality and Uncertainty

2019-11-13

it is not possible to ignore the fact that cities are not only moving vibrant and flourishing spaces promising hope for better quality of life but that they also accumulate and reflect significant problems this book explores the relational and dynamic nature of urban inequalities including their visible and invisible forms by using the rather elusive term of uncertainty the authors zoom in on specific aspects of urban inequalities that are difficult to measure yet are acutely sensed and experienced by people and more and more often perceived as unfair here in the recognition of inequalities as unjust and in the disagreement with the status quo lies a positive aspect of uncertainty which can lead to a social awakening and more active citizenship

Scalable Uncertainty Management

2014-09-08

this book constitutes the refereed proceedings of the 8th international conference on scalable uncertainty management sum 2014 held in oxford uk in september 2014 the 20 revised full papers and 6 revised short papers were carefully reviewed and selected from 47 submissions the papers cover topics in all areas of managing and reasoning with substantial and complex kinds of uncertain incomplete or inconsistent information including applications in decision support systems machine learning negotiation technologies semantic web applications search engines ontology systems information retrieval natural language processing information extraction image recognition vision systems data and text mining and the consideration of issues such as provenance trust heterogeneity and complexity of data and knowledge

Risk and Uncertainty

2013-01-31
conflict transformation requires at minimum a capacity to listen and respond constructively to those who are being hurt intentionally or unintentionally by others this compendium attempts to understand the ways in which borders and boundaries are manifestations of less visible dynamics in individual or collective human consciousness nur yalman asks how certain theories such as the huntington thesis become deadly in their consequences omar moufakkir and ian kelly analyze dutch moroccan relations sverre lodgaard outlines the interrelationship between geo politics emerging concepts of world order and nuclear weapon policies anthony marsella critically analyses the fukushima nuclear disaster the lessons drawn in this volume underline the importance of communication honesty and a concerned government responsive to the needs of citizens in crisis each of these contributions is grappling with different ways in which words theories ideologies and perspectives can hurt or heal divide or unite reconcile or destroy

Applications of Uncertainty Formalisms

2003-06-29

an introductory review of uncertainty formalisms by the volume editors begins the volume the first main part of the book introduces some of the general problems dealt with in research the second part is devoted to case studies each presentation in this category has a well delineated application problem and an analyzed solution based on an uncertainty formalism the final part reports on developments of uncertainty formalisms and supporting technology such as automated reasoning systems that are vital to making these formalisms applicable the book ends with a useful subject index there is considerable synergy between the papers presented the representative collection of case studies and associated techniques make the volume a particularly coherent and valuable resource it will be indispensable reading for researchers and professionals interested in the application of uncertainty formalisms as well as for newcomers to the topic

Intercultural Communication

2020-01-28

intercultural communication a contextual approach introduces students to the fundamental topics theories concepts and themes of intercultural communication best selling author james w neuliep presents a clear model for examining communication within a variety of contexts including cultural microcultural environmental sociorelational and perceptual each chapter focuses on one context and explores the combination of factors within that context including setting situation and circumstances the updated eighth edition reflects the most recent research in the field and further incorporates the role of modern technology and its impact on intercultural communication included with this title the password protected instructor resource site formally known as sage edge offers access to all text specific resources including a test bank and editable chapter specific powerpoint slides

Uncertainty, Anxiety, and Fear of Cancer Recurrence

2022-02-01

this comprehensive user friendly introduction takes a current approach to cultural differences and guides students through the key concepts of communication and culture

Intercultural Communication

2009

this book outlines the characteristics and implications of a potential geography of uncertainty in doing so it analyses this concept in reference to both the origins of uncertainty in early modern age and the current geopolitical situation the book adopts an interdisciplinary approach to uncertainty drawing on global perspectives and literature to define its meanings and characteristics in order to develop a thorough and precise understanding of the geography of uncertainty a broad perspective is adopted which includes other forms of
knowledge in which the concept of uncertainty is firmly established as such the book creates temporal links that may occasionally be far off from one another to present a geographical perspective of uncertainty it provides an interpretation of the phenomenon of globalization in a new way relating it to the first european openness to global spaces the early modern age and identifying the transition from the medieval world to the modern age as the first manifestation of uncertainty in geography uncertainty is more prevalent than ever in today s geopolitical economic financial and social reality as well as the ongoing emergencies and crises the book adopts an interdisciplinary approach rooted in the geography of early modernity by referring to geopolitical scenarios literature and philosophy to target the historical roots and the prevailing configuration of the geography of uncertainty it will appeal to scholars and students of human and political geography politics philosophy international relations economics and history

The Geography of Uncertainty
2023-08-15

uncertainty can take many forms can be represented in many ways and can have important implications in decision making and policy development this book provides a rigorous scientific framework for dealing with uncertainty in real world situations and provides a comprehensive study of concepts measurements and applications of uncertainty in ecological modeling and natural resource management the focus of this book is on the kinds and implications of uncertainty in environmental modeling and management with practical guidelines and examples for successful modeling and risk analysis in the face of uncertain conditions and incomplete information provided is a clear classification of uncertainty methods for measuring modeling and communicating uncertainty practical guidelines for capturing and representing expert knowledge and judgment explanations of the role of uncertainty in decision making a guideline to avoiding logical fallacies when dealing with uncertainty and several example cases of real world ecological modeling and risk analysis to illustrate the concepts and approaches case topics provide examples of structured decision making statistical modeling and related topics a summary provides practical next steps that the reader can take in analyzing and interpreting uncertainty in real world situations also provided is a glossary and a suite of references

The Science and Management of Uncertainty
2020-11-26

extremism and the psychology of uncertainty showcases cutting edge scientific research on the extent to which uncertainty may lead to extremism contributions come from leading international scholars who focus on a wide variety of forms facets and manifestations of extremist behavior systematically integrates and explores the growing diversity of social psychological perspectives on the uncertainty extremism relationship showcases contemporary cutting edge scientific research from leading international scholars offers a broad perspective on extremism and focuses on a wide variety of different forms facets and manifestations accessible to social and behavioral scientists policy makers and those with a genuine interest in understanding the psychology of extremism

Twenty-fifth ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems
2006

religions are at their core about creating certainty but what happens when groups lose control of their destiny whether it leads to violence or to nonviolent innovations as found in minority religions following the death of their founders or leaders uncertainty and insecurity can lead to great change in the mission and even teachings of religious groups this book brings together an international range of contributors to explore the uncertainty faced by new and minority religious movements as well as non religious fringe groups the groups considered in the book span a range of religious traditions christianity buddhism hinduism islam old and new spiritual formations such as esotericism new age and organized new religious movements as well as non religious movements including the straight edge movement and the british union of fascists the chapters deal with a variety of contexts from the uk and us to japan and egypt with others discussing global movements while all the authors deal with
Extremism and the Psychology of Uncertainty

2011-12-12

The theory of the firm has recently undergone a dramatic transformation, drawing heavily on the pathbreaking work of Armen Alchian. This volume explores his contribution to the debate, including essays by Harold Demetz, Ben Klein, Jerry Jordan, and Art Devany.

Minority Religions and Uncertainty

2020-05-04

Late in his life, the author came to realize that there was much in his world that was uncertain. How should he deal with that? In this book, he explores how some scientists have tolerated uncertainty and goes on to consider uncertainty in relation to our morals. The subjugation of women has been a major moral problem through history, characterized by certainty. In his view, this has fostered many other immoralities, e.g., slavery. He then reviews the world’s main religions to what extent they accepted uncertainty and how they dealt with sex and women. How do individuals cope with religious uncertainty? He explores how some scientists have tolerated uncertainty and goes on to consider uncertainty in relation to our morals. The subjugation of women has been a major moral problem through history, characterized by certainty. In his view, this has fostered many other immoralities, e.g., slavery. He then reviews the world’s main religions to what extent they accepted uncertainty and how they dealt with sex and women. How do individuals cope with religious uncertainty? By the end of the book, he makes the clear distinction between unknowability and the limitations of our comprehension, which should respect and uncertainty, which is more relevant to our day-to-day experiences, which we need to cope with and tolerate.

Uncertainty and Economic Evolution

2005-06-23

Build the skills for determining appropriate error limits for quantities that matter with this essential toolkit. Understand how to handle a complete project and how uncertainty enters into various steps. Provides a systematic, worksheet-based process to determine error limits on measured quantities and all likely sources of uncertainty are explored. Measured or estimated features are included. Instructions on how to carry out error analysis using Excel and Matlab make previously tedious calculations easy. Whether you are new to the sciences or an experienced engineer, this useful resource provides a practical approach to performing error analysis suitable as a text for a junior or senior level laboratory course in aerospace, chemical, and mechanical engineering, and for professionals.

Tolerance of Uncertainty

2014-08-13

Tauber, a leading figure in history and philosophy of science, offers a unique autobiographical overview of how science as a discipline of thought has been characterized by philosophers and historians. Over the past century, he frames his account through science and his own personal quest for explanatory certainty. During the 20th century, that goal was displaced by probabilistic epistemologies required to characterize complex systems. Whether in physics, biology, economics, or the social sciences, this triumph of uncertainty is the inevitable outcome of irreducible chance and indeterminate causality and beyond these epistemological limits, the interpretative faculties of the individual scientist, what Michael Polanyi called the personal and the tacit, invariably affects how data are understood. Whereas positivism had claimed radical objectivity, post positivists have identified how a web of non-epistemic values and social forces profoundly influence the production of knowledge. Tauber presents...
a case study of these claims by showing how immunology has incorporated extra curricular social elements in its theoretical development and how these in turn have influenced interpretive problems swirling around biological identity individuality and cognition the correspondence between contemporary immunology and cultural notions of selfhood are strong and striking just as uncertainty haunts science so too does it hover over current constructions of personal identity self knowledge and moral agency across the chasm of uncertainty science and selfhood speak

Uncertainty Analysis for Engineers and Scientists

2021-01-07

the purpose of this book is to provide an overview of ai research ranging from basic work to interfaces and applications with as much emphasis on results as on current issues it is aimed at an audience of master students and phd students and can be of interest as well for researchers and engineers who want to know more about ai the book is split into three volumes the first volume brings together twenty three chapters dealing with the foundations of knowledge representation and the formalization of reasoning and learning volume 1 knowledge representation reasoning and learning the second volume offers a view of ai in fourteen chapters from the side of the algorithms volume 2 ai algorithms the third volume composed of sixteen chapters describes the main interfaces and applications of ai volume 3 interfaces and applications of ai implementing reasoning or decision making processes requires an appropriate representation of the pieces of information to be exploited this first volume starts with a historical chapter sketching the slow emergence of building blocks of ai along centuries then the volume provides an organized overview of different logical numerical or graphical representation formalisms able to handle incomplete information rules having exceptions probabilistic and possibilistic uncertainty and beyond as well as taxonomies time space preferences norms causality and even trust and emotions among agents different types of reasoning beyond classical deduction are surveyed including nonmonotonic reasoning belief revision updating information fusion reasoning based on similarity case based interpolative or analogical as well as reasoning about actions reasoning about ontologies description logics argumentation and negotiation or persuasion between agents three chapters deal with decision making be it multiple criteria collective or under uncertainty two chapters cover statistical computational learning and reinforcement learning other machine learning topics are covered in volume 2 chapters on diagnosis and supervision validation and explanation and knowledge base acquisition complete the volume

The Triumph of Uncertainty

2022-08-09

focusing on the lived experience of immigration policy and processes this volume provides fascinating insights into the deportation process as it is felt and understood by those subjected to it the author presents a rich and innovative ethnography of deportation and deportability experienced by migrants convicted of criminal offenses in england and wales the unique perspectives developed here on due process in immigration appeals migrant surveillance and control social relations and sense of self and compliance and resistance are important for broader understandings of border control policy and human rights

A Guided Tour of Artificial Intelligence Research

2020-05-08

model validation and uncertainty quantification volume 3 proceedings of the 35th imac a conference and exposition on structural dynamics 2017 the third volume of ten from the conference brings together contributions to this important area of research and engineering the collection presents early findings and case studies on fundamental and applied aspects of model validation and uncertainty quantification including papers on uncertainty quantification in material models uncertainty propagation in structural dynamics practical applications of mvuq advances in model validation uncertainty quantification model updating model validation uncertainty quantification industrial applications controlling uncertainty uncertainty in early stage design modeling of musical instruments overview of model validation and uncertainty
Enduring Uncertainty

2016-03-01

dimensions of uncertainty exploring the philosophies of knowledge and human existence is a captivating journey
into the world of agnostic philosophy challenging and stimulating thoughts on knowledge and human existence
the book delves into the complexity and depth of uncertainty providing a balanced and introspective perspective
on various aspects of reality within its pages the readings invite you to explore the multiple dimensions of
knowledge and human existence scrutinizing concepts and ideas that often remain in the shadows of
conventional philosophical dialogues addressing themes such as the nature of knowledge the mystery of
existence and the role of uncertainty in human perception the book offers a profound and thought provoking
intellectual journey with an agnostic approach the book encourages readers to contemplate ambiguity and
unanswered questions fostering a deeper and more respectful understanding of human complexity and the
surrounding world dimensions of uncertainty is an engaging source of reflection and exploration bringing forth
philosophies that invite dialogue and introspection about human nature and the world we inhabit

Model Validation and Uncertainty Quantification, Volume 3

2017-06-07

this title was first published in 2002 this monograph sets out to model a macroeconomy that is inherently
unstable because of qualitative or keynesian uncertainty by modelling a macroeconomic theory this approach to
fixed or sticky prices also investigates the link between uncertainty sticky prices and macro stability by
suggesting that such prices improve economic activity rather than impeding it

Dimensions of Uncertainty:

2023-12-01

Uncertainty, Macroeconomic Stability and the Welfare State

2019-01-15

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