

# Error and Uncertainty in Scientific Practice

*Edited by Marcel Boumans,  
Giora Hon and Arthur C. Petersen*

Number 1

# Error And Uncertainty In Scientific Practice

**Ifan Hughes, Thomas Hase**



## **Error And Uncertainty In Scientific Practice:**

**Error and Uncertainty in Scientific Practice** Marcel Boumans, Giora Hon, Arthur C. Petersen, 2015-10-06 Assessment of error and uncertainty is a vital component of both natural and social science This edited volume presents case studies of research practices across a wide spectrum of scientific fields It compares methodologies and presents the ingredients needed for an overarching framework applicable to all

**Simulating Nature** Arthur C. Petersen, 2012-04-24 Computer simulation has become an important means for obtaining knowledge about nature The practice of scientific simulation and the frequent use of uncertain simulation results in public policy raise a wide range of philosophical questions Most prominently highlighted is the field of anthropogenic climate change are humans currently changing the

*Value-Free Science* Harold Kincaid, John Dupre, Alison Wylie, 2007-03-15 It has long been thought that science is our best hope for realizing objective knowledge but that to deliver on this promise it must be free of the influence of any values that are not purely epistemic As recent work in philosophy history and social studies of science shows however things are not so simple The contributors to this volume ask where and how nonepistemic values are involved in science they explore the roles these values play at the heart of science in the assessment of evidence and explanations and they examine the implications this has for ideals of objectivity

**BOOK JACKET**

**Scientists' Expertise as Performance** Joris Vandendriessche, Evert Peeters, Kaat Wils, 2015-10-06 The essays in this collection explore our reliance on experts within a historical context and across a wide range of fields including agriculture engineering health sciences and labour management Contributors argue that experts were highly aware of their audiences and used performance to gain both scientific and popular support

Theories of Interval Arithmetic Hend Dawood, 2011-10-07 Scientists are all the time in a struggle with uncertainty which is always a threat to a trustworthy scientific knowledge A very simple and natural idea to defeat uncertainty is that of enclosing uncertain measured values in real closed intervals On the basis of this idea interval arithmetic is constructed The idea of calculating with intervals is not completely new in mathematics the concept has been known since Archimedes who used guaranteed lower and upper bounds to compute his constant Pi Interval arithmetic is now a broad field in which rigorous mathematics is associated with scientific computing This connection makes it possible to solve uncertainty problems that cannot be efficiently solved by floating point arithmetic Today application areas of interval methods include electrical engineering control theory remote sensing experimental and computational physics chaotic systems celestial mechanics signal processing computer graphics robotics and computer assisted proofs The purpose of this book is to be a concise but informative introduction to the theories of interval arithmetic as well as to some of their computational and scientific applications

**Editorial Reviews** This new book by Hend Dawood is a fresh introduction to some of the basics of interval computation It stops short of discussing the more complicated subdivision methods for converging to ranges of values however it provides a bit of perspective about complex interval arithmetic constraint intervals and modal intervals and it

does go into the design of hardware operations for interval arithmetic which is something still to be done by computer manufacturers Ramon E Moore The Founder of Interval Computations Professor Emeritus of Computer and Information Science Department of Mathematics The Ohio State University Columbus U S A A popular math oriented introduction to interval computations and its applications This short book contains an explanation of the need for interval computations a brief history of interval computations and main interval computation techniques It also provides an impressive list of main practical applications of interval techniques Vladik Kreinovich International Journal of Uncertainty Fuzziness and Knowledge Based Systems Professor of Computer Science University of Texas at El Paso El Paso Texas U S A I am delighted to see one more Egyptian citizen re entering the field of interval mathematics invented in this very country thousands years ago Marek W Gutowski Institute of Physics Polish Academy of Sciences Warszawa Poland

**Mathematics of Uncertainty Modeling in the Analysis of Engineering and Science Problems** Chakraverty, S.,2014-01-31 This book provides the reader with basic concepts for soft computing and other methods for various means of uncertainty in handling solutions analysis and applications Provided by publisher

**The Routledge Handbook of Applied Climate Change Ethics** Donald A. Brown,Kathryn Gwiazdon,Laura Westra,2023-09-27 The Routledge Handbook of Applied Climate Change Ethics is a powerful reference source for the identification and exploration of the underlying ethical issues in climate change law and policy Bridging theory with practice it takes ethical engagement out of the classroom and into the halls of governance The Handbook s 39 chapters written by a diverse and inter disciplinary team of experts from around the world are case studies divided into five parts Parts I IV highlight the ethical issues that arise in climate change policy formation from duties not to harm to duties to consider the views and voices of those who will be or are being harmed from the role of human rights justice and democracy to how to identify and respond to disinformation and denialism It also raises the ethics of various policy responses such as cap and trade carbon taxing and geo engineering Part V offers a way forward with strategies on how to expressly consider ethics in climate change policy formation from negotiations to education media communication and the power and potential of shaming The volume is essential reading for students professors and practitioners who wish to better engage with government and non government organizations on climate policy to better understand the practical application of the theory and philosophy of ethics and how to more strongly draft and defend ethical action in negotiating drafting and defending climate change law and policy

**Research Methods and Statistics in Psychology** S Alexander Haslam,Craig McGarty,2018-10-27 The third edition of Haslam and McGarty s best selling textbook Research Methods and Statistics in Psychology provides students with a highly readable and comprehensive introduction to conducting research in psychology The book guides readers through the range of choices involved in design analysis and presentation and is supplemented by a range of practical learning features both inside the book and online These draw on the authors extensive experience as frontline researchers and provide step by step guides to quantitative and qualitative methods and analyses

Written in an accessible and engaging style this text encourages deep engagement with its subject matter and is designed to inspire students to feel passionate for the research process as a whole This third edition offers Updated Research Bites in every chapter a space to step back from the text and reflect on the ways in which it relates both to issues in the world at large and to contemporary debates in psychology Updated coverage of experimental design survey research and ethics More expansive coverage of qualitative methods A comprehensive guide to the process of conducting psychological research from the ground up covering multiple methodologies experimental and survey design data analysis ethics and report writing An extensive range of quantitative methods together with detailed step by step guides to running analyses using SPSS Online resources and videos to help reinforce learning and revision for instructors and students *Metrology* Anil

Akdogan,2018-08-01 *Metrology* the science of measurement is crucial for many sciences and technological developments Since metrology helps to improve many other sciences the book reflects in general metrology and some special metrological approaches at different fields such as radiation and frequency measurements in detail This book also focuses on technical testing and control applications in the industry It also intends the fundamentals of metrology concerning the related standards and systems of units In addition the book considers the calibration of measurement instruments and measurement uncertainties as the basic requirements of the related quality standards **Experimental Vibro-acoustics** Joshua

Meggitt,Andrew Moorhouse,2025-07-01 *Experimental Vibro acoustics* is the first comprehensive practical engineering guide for the effective use of measured vibro acoustic data in a component based approach to the analysis simulation virtual prototyping and digital twinning of machines and mechanical systems The book provides practical techniques which cover measurement data processing and uncertainties and includes many tricks of the trade It also includes a range of case studies and a detailed walk through example in a tutorial style Further it focuses on the in situ blocked force method now a full international standard through which many of the developments in the component based approach have been based This book is essential for design engineers in vibration acoustics and structural dynamics diagnosing and troubleshooting vibro acoustic problems in machines and mechanical systems as well as simulation of existing and virtual assemblies It extends beyond the core of the automotive industries to new applications in air rail and marine transport as well as for domestic and industrial equipment and buildings and is relevant to both researchers and industrial engineers **The Process of**

**Science, Revised Edition** Anthony Carpi Anne Egger,2011 Through a series of examples drawn from biology climate science geology environmental science and other disciplines the chapters in this book demystify the process of science and the work that scientists do The authors highlight the many methods used in science and the common characteristics that unite them all as science The examples illustrate that science is a human endeavor and research is enriched and enlivened by the diversity of scientists themselves This book is an excellent companion to any college level introductory science course emphasizing how we know what we know It will also serve as an invaluable resource for undergraduate students preparing

to do research for the first time or for anyone who might be interested in learning more about the process of science and scientific research

**Book blurb      Review of the Lake Ontario-St. Lawrence River Studies** The Royal Society of Canada, National Research Council, Division on Earth and Life Studies, Water Science and Technology Board, Committee to Review the Lake Ontario-St. Lawrence River Studies, 2006-05-11 Since the 1950s the International Joint Commission IJC of Canada and the United States has issued water regulation and management plans for Lake Ontario and the St. Lawrence River. Changes in recreational, environmental, navigational and other uses of the water system have prompted the IJC to consider replacing the current water regulation plan in operation for more than 40 years. IJC's goals for a replacement plan include sound scientific foundations, public participation, transparency in plan development and evaluation, and inclusion of environmental considerations. To help develop and select the new plan, the IJC supported a 5-year, 20-million Lake Ontario-St. Lawrence River Study (LOSLR Study). The LOSLR Study uses models to compile and integrate data gathered from a series of commissioned studies of wetlands, species at risk, recreational boating, fisheries, coastal erosion and flooding, commercial navigation, hydropower, industrial, municipal and domestic water intakes, public information and education, and hydrologic modeling. This report reviews a portion of the study that focused on wetlands and species at risk and three of the models that were used. The report finds that the overall breadth of the LOSLR study is impressive and commends the scale and inclusiveness of the studies and models. In terms of informing decision making, however, the reviewed studies and models show deficiencies when evaluated against ten evaluation criteria, including treatment of uncertainty, quality control, quality assurance, thorough documentation, and empirical foundations. Among the report's recommendations is a need for more thorough documentation of study methods and findings, stronger and more consistent quality control, and more attention to how uncertainty should be addressed to better inform decision making. This NRC study was conducted in collaboration with the Royal Society of Canada.

***Handbook of the Philosophy of Climate Change*** Gianfranco Pellegrino, Marcello Di Paola, 2023-11-24 This Handbook offers a broad yet unified treatment of many philosophical issues connected with climate change, ranging from foundational puzzles to detailed applications. It extends to many branches of philosophy that are relevant to the understanding of the premises and implications of the impacts of climate change on human and nonhuman life on Earth. More specifically, the handbook examines the scientific accounts of climate change as well as its causes. It explores the tools offered by social sciences and humanities to study the societal premises and impacts of climate change as well as delving deeper into the ethical and political issues connected with and resulting from climate change. By doing so, it puts it all in an ecological and historical context. In addition, the book offers solutions to some important philosophical puzzles and problems and indicates paths of interaction between philosophy and other disciplines. The discussion about climate change and the mitigation/adaptation policies spans many areas and levels, from abstract science and philosophy to current on-the-ground politics. However, climate change is also a great philosophical puzzle. Indeed, its existential and practical relevance

can be thought to largely derive from the philosophical complications it engenders Climate change is applied philosophy par excellence Preventing dangerous anthropogenic climate change needs very good philosophy applied to concrete and specific practical issues Climate change is an area where scholars from very different provenances should cooperate on equal terms having in view a common and really important purpose contribute to preventing great burdens and even the extinction of humankind and the destruction of hospitable and valuable non human nature

Uncertainty and Quality in Science for Policy S.O. Funtowicz, J.R. Ravetz, 2012-12-06 60 I 137 0 29 ERROR BARS tONE 1 4 0 E a a Z30 137 0388 0 137 0377 20 0 to 0 50 Fig 1 Successive recommended values of the fine structure constant IX I B N Taylor et al 1969 7 reminder that the value is not fully accepted by colleagues since they will expect it to jump about for a while longer Our next example is taken from a recent study in the social sciences It shows how a set of related estimates of uncertainty can be expressed clearly and effectively by NUSAP Suppose that we wish to forecast what the future price of a basic commodity might be especially when at the moment its price is artificially maintained by a cartel of producers There is no experimental evidence on such a future contingency and yet we are not completely in the dark There is a long history of expertise in the field and there is a well tried standard model by which experts guesses can be translated into mathematical form

*Science Outside the Laboratory* Marcel Boumans, 2015-05-01 The conduct of most of social science occurs outside the laboratory Such studies in field science explore phenomena that cannot for practical technical or ethical reasons be explored under controlled conditions These phenomena cannot be fully isolated from their environment or investigated by manipulation or intervention Yet measurement including rigorous or clinical measurement does provide analysts with a sound basis for discerning what occurs under field conditions and why In *Science Outside the Laboratory* Marcel Boumans explores the state of measurement theory its reliability and the role expert judgment plays in field investigations from the perspective of the philosophy of science Its discussion of the problems of passive observation the calculus of observation the two model problem and model based consensus uses illustrations drawn primarily from economics Rich in research and discussion the volume clarifies the extent to which measurement provides valid information about objects and events in field sciences but also has implications for measurement in the laboratory Scholars in the fields of philosophy of science social science and economics will find *Science Outside the Laboratory* a compelling and informative read

**Conversations on Climate: The People Behind the Science** Gerrit Lohmann, 2025-03-29 This open access book presents interviews with high profile climate scientists about state of the art research questions Consequences of climate change have become more and more visible and are now regularly discussed in political and societal debates While climate scientists have been warning about potential consequences of anthropogenic greenhouse gas emissions for decades their call for action has not sufficiently been heard for long Meanwhile the field of climate science has grown significantly and become more interdisciplinary As a result more sophisticated technologies higher data availability as well as more advanced climate models have made the fundamental

message stronger than ever The impact of human activity on the Earth's climate is clear and severe and irreversible consequences already occur all over the world The authors were given the opportunity to talk to leading climate scientists from different disciplines These do not only include theoretical physics paleo research and climate modelling but also cover the role of the biosphere extreme weather events and attribution science Additionally the interviews also address the political dimension of climate science      Measurements and their Uncertainties Ifan Hughes, Thomas Hase, 2010-07-02 This hands on guide is primarily intended to be used in undergraduate laboratories in the physical sciences and engineering It assumes no prior knowledge of statistics It introduces the necessary concepts where needed with key points illustrated with worked examples and graphic illustrations In contrast to traditional mathematical treatments it uses a combination of spreadsheet and calculus based approaches suitable as a quick and easy on the spot reference The emphasis throughout is on practical strategies to be adopted in the laboratory Error analysis is introduced at a level accessible to school leavers and carried through to research level Error calculation and propagation is presented through a series of rules of thumb look up tables and approaches amenable to computer analysis The general approach uses the chi square statistic extensively Particular attention is given to hypothesis testing and extraction of parameters and their uncertainties by fitting mathematical models to experimental data Routines implemented by most contemporary data analysis packages are analysed and explained The book finishes with a discussion of advanced fitting strategies and an introduction to Bayesian analysis      *Epistemological and Ethical Aspects of Research in the Social Sciences* Ulrich Dettweiler, Barbara Hanfstingl, Hannes Schröter, 2020-06-08

Forensic Anthropology C. Clifford Boyd, Jr., Donna C. Boyd, 2018-03-19 Provides comprehensive coverage of everything that students and practitioners need to know about working in the field of forensic anthropology Forensic anthropology has been plagued by questions of scientific validity and rigor despite its acceptance as a section in the American Academy of Forensic Sciences nearly half a century ago Critics have viewed it as a laboratory based applied subfield of biological anthropology and characterised it as emphasising methodology over theory This book shows that these views are not only antiquated but inadequate and inaccurate Forensic Anthropology Theoretical Framework and Scientific Basis introduces readers to all of the theoretical and scientific foundations of forensic anthropology beginning with how it was influenced by the early theoretical approaches of Tyler Morgan Spencer and Darwin It instructs on how modern forensic science relies on an interdisciplinary approach with research being conducted in the fields of archaeology physics geology and other disciplines This modern approach to theory in forensic anthropology is presented through the introduction and discussion of Foundational Interpretive and Methodological theories Sections cover Bias and Objectivity in Forensic Anthropology Theory and Practice The Theory and Science Behind Biological Profile and Personal Identification Scientific Foundation for Interpretations of Antemortem Perimortem and Postmortem Processes and Interdisciplinary Influences Legal Ramifications and Future Directions Illustrates important aspects of the theory building process and reflects methods for strengthening the



scientific framework of forensic anthropology as a discipline Inspired by the Application of Theory to Forensic Anthropology symposium presented at the 67th annual meeting of the American Academy of Forensic Sciences Chapters written by experts in the field who were presenters at the symposium Forensic Anthropology Theoretical Framework and Scientific Basis is ideal for university courses in anthropological science forensic science criminal science and forensic archaeology *A Pragmatist Orientation for the Social Sciences in Climate Policy* Martin Kowarsch, 2016-09-01 While economic and other social science expertise is indispensable for successful public policy making regarding global climate change social scientists face trade offs between the scientific credibility policy relevance and legitimacy of their policy advice From a philosophical perspective this book systematically addresses these trade offs and other crucial challenges facing the integrated economic assessments of the Intergovernmental Panel on Climate Change IPCC Based on John Dewey s pragmatist philosophy and an analysis of the value laden nature and reliability of climate change economics the book develops a refined science policy model and specific guidelines for these assessments of climate policy options The core idea is to scientifically explore the various practical implications of alternative climate policy pathways in an interdisciplinary manner together with diverse stakeholders This could facilitate an iterative deliberative public learning process concerning disputed policy issues This volume makes novel contributions to three strands of the literature 1 the philosophy of social science in policy 2 the philosophy of economics and 3 debates about the design of scientific assessments including the continuous IPCC reform debate This work is thus interesting for philosophers and other scholars reflecting on the science policy interface but also for assessment practitioners climate policy makers and economists The science policy approach developed in this volume has already influenced the recent socio economic IPCC assessment

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