

EXTENDING OURSELVES

**Computational Science, Empiricism,
and Scientific Method**



Paul Humphreys

Extending Ourselves Computational Science Empiricism And Scientific Method

Ginevra Peruginelli, Sebastiano Faro



Extending Ourselves Computational Science Empiricism And Scientific Method:

Extending Ourselves Paul Humphreys, 2004-07-22 Computational methods have become the dominant technique in many areas of science This book contains the first systematic philosophical account of these new methods and their consequences for scientific method This book will be of interest to philosophers of science and to anyone interested in the role played by computers in modern science

Extending Ourselves: Computational Science, Empiricism, and Scientific Method Paul Humphreys, 2004-07-22 Computational methods such as computer simulations Monte Carlo methods and agent based modeling have become the dominant techniques in many areas of science Extending Ourselves contains the first systematic philosophical account of these new methods and how they require a different approach to scientific method Paul Humphreys draws a parallel between the ways in which such computational methods have enhanced our abilities to mathematically model the world and the more familiar ways in which scientific instruments have expanded our access to the empirical world This expansion forms the basis for a new kind of empiricism better suited to the needs of science than the older anthropocentric forms of empiricism Human abilities are no longer the ultimate standard of epistemological correctness Humphreys also includes arguments for the primacy of properties rather than objects the need to consider technological constraints when appraising scientific methods and a detailed account of how the path from computational template to scientific application is constructed This last feature allows us to hold a form of selective realism in which anti realist arguments based on formal reconstructions of theories can be avoided One important consequence of the rise of computational methods is that the traditional organization of the sciences is being replaced by an organization founded on computational templates Extending Ourselves will be of interest to philosophers of science epistemologists and to anyone interested in the role played by computers in modern science

Extending Ourselves Paul Humphreys, 2004 Paul Humphreys explores the ways in which computationally assisted science is fundamentally reshaping science provides a new account of empiricism suitable for contemporary science whose purpose is to reconcile a modest but selective scientific realism with scientific empiricism

Computer Simulations and the Changing Face of Scientific Experimentation Eckhart Arnold, Juan M. Durán, 2013-07-16 Computer simulations have become a central tool for scientific practice Their use has replaced in many cases standard experimental procedures This goes without mentioning cases where the target system is empirical but there are no techniques for direct manipulation of the system such as astronomical observation To these cases computer simulations have proved to be of central importance The question about their use and implementation therefore is not only a technical one but represents a challenge for the humanities as well In this volume scientists historians and philosophers join to examine computer simulations in scientific practice One central aim of the volume is to provide a multi perspective view on the topic Therefore the text includes philosophical studies on computer simulations as well as case studies from simulation practice and historical studies of the evolution of simulations as a research method The theoretical

studies in this book discuss the epistemological relation between simulations and experiments as well as the empirical or non empirical status of data resulting from computer simulations The role of simulations in current scientific practice is examined in the cases of astronomy system biology nanoscale research and in the pharmaceutical industry The historical perspective is brought in by examining the rise of supercomputing as well as the exploding number of published simulation studies in some scientific fields The book concludes with critical reflections on the potential limitations and failures of computer simulations

Philosophical Papers Paul Humphreys, 2019 This volume contains fifteen papers by Paul Humphreys who has made important contributions to the philosophy of computer simulations emergence the philosophy of probability probabilistic causality and scientific explanation It includes detailed postscripts to each section and a philosophical introduction One of the papers is previously unpublished

Knowledge of the Law in the Big Data Age Ginevra Peruginelli, Sebastiano Faro, 2019-07-15 The changes brought about by digital technology and the consequent explosion of information known as Big Data have brought opportunities and challenges in all areas of society and the law is no exception This book *Knowledge of the Law in the Big Data Age* contains a selection of the papers presented at the conference Law via the Internet 2018 held in Florence Italy on 11 12 October 2018 This annual conference of the Free Access to Law Movement <http://www.fatlm.org> hosted more than 60 international speakers from universities government and research bodies as well as EU institutions Topics covered range from free access to law and Big Data and data analytics in the legal domain to policy issues concerning access publishing and the dissemination of legal information tools to support democratic participation and opportunities for digital democracy The book is divided into 3 sections Part I provides an introductory background covering aspects such as the evolution of legal science and models for representing the law Part II addresses the present and future of access to law and to various legal information sources and Part III covers updates in projects initiatives and concrete achievements in the field The book provides an overview of the practical implementation of legal information systems and the tools to manage this special kind of information as well as some of the critical issues which must be faced and will be of interest to all those working at the intersection of law and technology

Emergence Mark Bedau, Paul Humphreys, 2008 Readings on the idea of emergence in evolution and classical works on emergence found in contemporary philosophy and science Australian contributor

The Philosopher's Index, 2007 Vols for 1969 include a section of abstracts

Proceedings and Addresses of the American Philosophical Association American Philosophical Association, 2006 List of members in v 1

Bibliographisch repertorium van de wijsbegeerte, 2006 *International Philosophical Quarterly*, 1961

Bibliografisch Repertorium Van de Wijsbegeerte, 2006 *American Book Publishing Record*, 2003 *Choice*, 2005-09 *Historical Studies in the Physical and Biological Sciences*, 2006 *The British National Bibliography* Arthur James Wells, 2006 *Enrahonar*, 2005 *Revista Anthropos*, 2007 **Book Review Index**, 2006 Every 3rd issue is a quarterly cumulation *Forthcoming Books* Rose Army, 2004

The book delves into Extending Ourselves Computational Science Empiricism And Scientific Method. Extending Ourselves Computational Science Empiricism And Scientific Method is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Extending Ourselves Computational Science Empiricism And Scientific Method, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 3: Extending Ourselves Computational Science Empiricism And Scientific Method in Everyday Life
 - Chapter 4: Extending Ourselves Computational Science Empiricism And Scientific Method in Specific Contexts
 - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Extending Ourselves Computational Science Empiricism And Scientific Method.

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