

Decomposition and Localization as Strategies in Scientific Research

William Bechtel and Robert C. Richardson

<u>Discovering Complexity Decomposition And Localization</u> <u>As Strategies In Scientific Research</u>

Pierre-Alain Braillard, Christophe Malaterre

Discovering Complexity Decomposition And Localization As Strategies In Scientific Research:

Discovering Complexity William Bechtel, Robert C. Richardson, 2010-08-06 An analysis of two heuristic strategies for the development of mechanistic models illustrated with historical examples from the life sciences In Discovering Complexity William Bechtel and Robert Richardson examine two heuristics that guided the development of mechanistic models in the life sciences decomposition and localization Drawing on historical cases from disciplines including cell biology cognitive neuroscience and genetics they identify a number of choice points that life scientists confront in developing mechanistic explanations and show how different choices result in divergent explanatory models Describing decomposition as the attempt to differentiate functional and structural components of a system and localization as the assignment of responsibility for specific functions to specific structures Bechtel and Richardson examine the usefulness of these heuristics as well as their fallibility the sometimes false assumption underlying them that nature is significantly decomposable and hierarchically organized When Discovering Complexity was originally published in 1993 few philosophers of science perceived the centrality of seeking mechanisms to explain phenomena in biology relying instead on the model of nomological explanation advanced by the logical positivists a model Bechtel and Richardson found to be utterly inapplicable to the examples from the life sciences in their study Since then mechanism and mechanistic explanation have become widely discussed In a substantive new introduction to this MIT Press edition of their book Bechtel and Richardson examine both philosophical and scientific developments in research on mechanistic models since 1993 **Discovering Complexity** William The Routledge Handbook of Mechanisms and Mechanical Philosophy Stuart Glennan, Phyllis Bechtel, 1993-01-01 Illari, 2017-07-06 Scientists studying the burning of stars the evolution of species DNA the brain the economy and social change all frequently describe their work as searching for mechanisms Despite this fact for much of the twentieth century philosophical discussions of the nature of mechanisms remained outside philosophy of science The Routledge Handbook of Mechanisms and Mechanical Philosophy is an outstanding reference source to the key topics problems and debates in this exciting subject and is the first collection of its kind Comprising over thirty chapters by a team of international contributors the Handbook is divided into four Parts Historical perspectives on mechanisms The nature of mechanisms Mechanisms and the philosophy of science Disciplinary perspectives on mechanisms Within these Parts central topics and problems are examined including the rise of mechanical philosophy in the seventeenth century what mechanisms are made of and how they are organized mechanisms and laws and regularities how mechanisms are discovered and explained dynamical systems theory and disciplinary perspectives from physics chemistry biology biomedicine ecology neuroscience and the social sciences Essential reading for students and researchers in philosophy of science the Handbook will also be of interest to those in related fields such as metaphysics philosophy of psychology and history of science **Functional Integration** Guglielmo Militello, 2025-07-01 This book explores the main biological dimensions underlying functional integration and

examines how they contribute to defining a biological individual as both a physiological and evolutionary unit Functional integration lies at the heart of most definitions of both organisms and biological individuals making it explanatorily relevant to biology as well as to the philosophy of biology However the notion typically referring to any causal interdependence among biological functions remains broad and lacks a coherent theoretical framework This work addresses that gap by focusing on functional integration at the cellular level which presents both a minimal degree of complexity relative to multicellular organisms and maximal conceptual significance for this inquiry By analysing the transition from prokaryotes to eukaryotes the book sheds light on how spatial constraints system level regulatory mechanisms spatio temporal coordination and system level reproduction contribute to characterizing biological organization as a functionally integrated physiological unit This study opens the way for a fresh reflection on the foundations of biological individuality offering insights not only for researchers but also for students and non specialist readers Concepts and the Appeal to Cognitive Science Samuel D. Taylor, 2021-03-08 This series Dissertations in Language and Cognition explores issues of mental representation linguistic structure and representation and their interplay The research presented in this series is grounded in the idea explored in the Collaborative Research Center The structure of representations in language cognition and science SFB 991 that there is a universal format for the representation of linguistic and cognitive concepts Levels of Organization in the Biological Sciences Daniel S. Brooks, James DiFrisco, William C. Wimsatt, 2021-08-24 Scientific philosophers examine the nature and significance of levels of organization a core structural principle in the biological sciences This volume examines the idea of levels of organization as a distinct object of investigation considering its merits as a core organizational principle for the scientific image of the natural world It approaches levels of organization roughly the idea that the natural world is segregated into part whole relationships of increasing spatiotemporal scale and complexity in terms of its roles in scientific reasoning as a dynamic open ended idea capable of performing multiple overlapping functions in distinct empirical settings The contributors scientific philosophers with longstanding ties to the biological sciences discuss topics including the philosophical and scientific contexts for an inquiry into levels whether the concept can actually deliver on its organizational promises the role of levels in the development and evolution of complex systems conditional independence and downward causation and the extension of the concept into the sociocultural realm Taken together the contributions embrace the diverse usages of the term as aspects of the big picture of levels of organization Contributors Jan Baedke Robert W Batterman Daniel S Brooks James DiFrisco Markus I Eronen Carl Gillett Sara Green James Griesemer Alan C Love Angela Potochnik Thomas Reydon Ilya T mkin Jon Umerez William C Wimsatt James Woodward Scientonomy: The Challenges of Constructing a Theory of Scientific Change Hakob Barseghyan, Paul Patton, Gregory Rupik, Jamie Shaw, 2022-02-08 During the so called historical turn in the philosophy of science philosophers and historians boldly argued for general patterns throughout the history of science From Kuhn s landmark Structure of Scientific Revolutions until the Scrutinizing Science project led by

Larry Laudan there was optimism that there could be a general theoretical approach to understanding the process of scientific change This optimism gradually faded as historians and philosophers began to focus on the details of specific case studies located within idiosyncratic historical cultural and political contexts and abandoned attempts to uncover general patterns of how scientific theories and methods change through time Recent research has suggested that while we have learned a great deal about the diversity and complexity of scientific practices across history the push to abandon hope for a broader understanding of scientific change was premature Because of this philosophers historians and social scientists have become interested in reviving the project of understanding the mechanism of scientific change while respecting the diversity and complexity that has been unveiled by careful historical research over the past few decades The chapters in this volume consider a particular proposal for a general theory of how scientific theories and methods change over time first articulated by Hakob Barseghyan in The Laws of Scientific Change and since developed in a series of papers by a variety of members of the scientonomy community The chapters consider a wide range of issues from conceptual and historical challenges to the posited intellectual patterns in the history of science to the possibility of constructing a general theory of scientific change to begin with Offering a new take on the project of constructing a theory of scientific change and integrating historical philosophical and social studies of science this volume will be of interest to historians philosophers and sociologists of The Mind as a Scientific Object Christina E. Erneling, David Martel Johnson, 2005 This book argues that all the science cognitive science disciplines are not equally able to provide answers to ontological questions about the mind but rather that only neurophysiology and cultural psychology are suited to answer these questions BOOK JACKET Teacher Education Programs and Online Learning Tools: Innovations in Teacher Preparation Hartshorne, Richard, Heafner, Tina L., Petty, Teresa, 2012-07-31 While online learning has become pervasive in many fields in higher education it has been adopted somewhat slower in teacher education In addition more research is needed to empirically evaluate the effectiveness of online education in teacher preparation Teacher Education Programs and Online Learning Tools Innovations in Teacher Preparation presents information about current online practices and research in teacher education programs and explores the opportunities methods and issues surrounding technologically innovative opportunities in teacher preparation It presents empirical evidence of teacher candidate learning and assessment in the context of various online aspects of teacher licensure

Eppur si muove: Doing History and Philosophy of Science with Peter Machamer Marcus P. Adams, Zvi Biener, Uljana Feest, Jacqueline A. Sullivan, 2017-03-23 This volume is a collection of original essays focusing on a wide range of topics in the History and Philosophy of Science It is a festschrift for Peter Machamer which includes contributions from scholars who at one time or another were his students The essays bring together analyses of issues and debates spanning from early modern science and philosophy through the 21st century Machamer's influence is reflected in the volume's broad range of topics These include underdetermination scientific practice scientific models mechanistic explanation in

contemporary and historical science values in science the relationship between philosophy and psychology experimentation supervenience and reductionism The Matter of the Mind Maurice Schouten, Huib Looren de Jong, 2009-02-04 The Matter of the Mind addresses and illuminates the relationship between psychology and neuroscience by focusing on the topic of reduction Written by leading philosophers in the field Discusses recent theorizing in the mind brain sciences and reviews and weighs the evidence in favour of reductionism against the backdrop of recent important advances within psychology and the neurosciences Collects the latest work on central topics where neuroscience is now making inroads in traditional psychological terrain such as adaptive behaviour reward systems consciousness and social cognition Biological Discoveries Lindley Darden, 2006-06-26 Reasoning in Biological Discoveries brings together a series of essays which focus on one of the most heavily debated topics of scientific discovery Collected together and richly illustrated Darden s essays represent a groundbreaking foray into one of the major problems facing scientists and philosophers of science Divided into three sections the essays focus on broad themes notably historical and philosophical issues at play in discussions of biological mechanism and the problem of developing and refining reasoning strategies including interfield relations and anomaly resolution Darden summarizes the philosophy of discovery and elaborates on the role that mechanisms play in biological discovery Throughout the book she uses historical case studies to extract advisory reasoning strategies for discovery Examples in genetics molecular biology biochemistry immunology neuroscience and evolutionary biology reveal the process of discovery in action The Routledge Handbook of Emergence Sophie Gibb, Robin Findlay Hendry, Tom Lancaster, 2019-03-13 Emergence is often described as the idea that the whole is greater than the sum of the parts interactions among the components of a system lead to distinctive novel properties It has been invoked to describe the flocking of birds the phases of matter and human consciousness along with many other phenomena Since the nineteenth century the notion of emergence has been widely applied in philosophy particularly in contemporary philosophy of mind philosophy of science and metaphysics It has more recently become central to scientists understanding of phenomena across physics chemistry complexity and systems theory biology and the social sciences The Routledge Handbook of Emergence is an outstanding reference source and exploration of the concept of emergence and is the first collection of its kind Thirty two chapters by an international team of contributors are organised into four parts Foundations of emergence Emergence and mind Emergence and physics Emergence and the special sciences Within these sections important topics and problems in emergence are explained including the British Emergentists weak vs strong emergence emergence and downward causation dependence complexity and mechanisms mental causation consciousness and dualism quantum mechanics soft matter and chemistry and evolution cognitive science and social sciences Essential reading for students and researchers in philosophy of mind philosophy of science and metaphysics The Routledge Handbook of Emergence will also be of interest to those studying foundational issues in biology chemistry physics and psychology Explaining Jesus Benjamin

Bennett-Carpenter, 2018-11-27 How exactly does one explain Jesus That is the central question of this book But the task of explaining Jesus is complicated For many nonbelievers skeptics or practitioners of non Jesus based religions or spiritualities it can be very strange to refer to a particular man who lived in the first century CE as someone who is still living Even for some believers this idea can be a difficult thing to understand even given the teachings of their faith Thus whether believer or nonbeliever or somewhere in between for the intellectually curious there is need for an explanation Explaining Jesus explores the possibilities of a secular interdisciplinary science based explanation for the phenomenon of Jesus Mechanism João L. Cordovil, Gil Santos, Davide Vecchi, 2023-12-12 This open access book addresses the epistemological and ontological significance as well as the scope of new mechanism In particular this book addresses the issues of what is new about new mechanism the epistemological and ontological reasons underlying the adoption of mechanistic instead of other modelling strategies as well as the possibility of mechanistic explanation to accommodate a non trivial notion of emergence Arguably new mechanism has been particularly successful in making sense of scientific practice in the molecular life sciences But what about other sciences This book enlarges the context of analysis addressing the issue of the putative compatibility between the current ways of conceiving new mechanism and actual scientific practices in quantum physics chemistry biochemistry developmental biology and the cognitive sciences Neuroendocrine-Immune System Interactions Jan Pieter Konsman, Teresa M. Reyes, 2023-03-03 The concepts of the neuroendocrine system and the immune system emerged more or less simultaneously in the second half of the 20th century Although these systems have a high degree of autonomy it has also become clear that they interact in many ways and at different levels This book focuses on the neuroendocrine and immune interactions that are fundamental to normal development and maintenance of health The first introductory chapters are devoted to the historical and philosophical concepts within the field as well as evolutionary considerations offering critical interdisciplinary perspectives on the development of this field of research Without attempting an exhaustive overview the book then introduces some of the regulatory pathways that mediate interactions between the neuroendocrine and immune systems and examines modulating factors such as age and sex In addition several chapters address the importance of neuroendocrine immune interactions in some disease states Readers can expect to gain a broad perspective of neuroendocrine immune interactions in development health and disease along with a critical evaluation of current methods used in the field Given its scope the book is essential reading for undergraduate and graduate students with an interest in neuroendocrinology neuroimmunology and neuroscience as well as postdoctoral fellows and established researchers seeking a comprehensive overview and historical perspective of the field of neuroendocrine immune interactions Mechanism and Causality in Biology and Economics Hsiang-Ke Chao, Szu-Ting Chen, Roberta L. Millstein, 2013-07-31 This volume addresses fundamental issues in the philosophy of science in the context of two most intriguing fields biology and economics Written by authorities and experts in the philosophy of biology and economics Mechanism and Causality in Biology and Economics

provides a structured study of the concepts of mechanism and causality in these disciplines and draws careful juxtapositions between philosophical apparatus and scientific practice By exploring the issues that are most salient to the contemporary philosophies of biology and economics and by presenting comparative analyses the book serves as a platform not only for gaining mutual understanding between scientists and philosophers of the life sciences and those of the social sciences but also for sharing interdisciplinary research that combines both philosophical concepts in both fields The book begins by defining the concepts of mechanism and causality in biology and economics respectively The second and third parts investigate philosophical perspectives of various causal and mechanistic issues in scientific practice in the two fields These two sections include chapters on causal issues in the theory of evolution experiments and scientific discovery representation of causal relations and mechanism by models in economics The concluding section presents interdisciplinary studies of various topics concerning extrapolation of life sciences and social sciences including chapters on the philosophical investigation of conjoining biological and economic analyses with respectively demography medicine and sociology

Alternative perspectives on psychiatric validation Peter Zachar, Drozdstoj St. Stoyanov, Massimiliano Aragona, Assen Jablensky, 2014-11-06 Many of the current debates about validity in psychiatry and psychology are predicated on the unexpected failure to validate commonly used diagnostic categories. The recognition of this failure has resulted in what Thomas Kuhn calls a period of extraordinary science in which validation problems are given increased weight alternatives are proposed methodologies are debated and philosophical and historical analyses are seen as more relevant than usual In this important new book in the IPPP series a group of leading thinkers in psychiatry psychology and philosophy offer alternative perspectives that address both the scientific and clinical aspects of psychiatric validation emphasizing throughout their philosophical and historical considerations. This is a book that all psychiatrists as well as philosophers with an interest in psychiatry will find thought provoking and valuable **Explanation in Biology** Pierre-Alain Braillard, Christophe Malaterre, 2015-06-10 Patterns of explanation in biology have long been recognized as different from those deployed in other scientific disciplines especially that of physics Celebrating the diversity of interpretative models found in biology this volume details their varying types as well as explaining their relationships to one another It covers the key differentials with other sciences in the nature of explanation such as the existence in biology of varieties unheard of in the physical sciences such as teleological evolutionary and even functional explanations Offering a wealth of fresh analysis of the phenomenon chapters examine aspects ranging from the role of mathematics in explaining cell development to the complexities thrown up by evolutionary developmental biology where explanation is altered by multidisciplinarity itself They cover major domains such as ecology and systems biology as well as contemporary trends such as the mechanistic explanations spawned by progress in molecular biology With contributions from researchers of many different nationalities the book provides a many angled perspective on a revealing feature of the discipline of biology **Nonlinear Dynamics in the Life and Social Sciences**

William H. Sulis,Irina Nikolaevna Trofimova,2001 Incorporating chaos theory into psychology and the life sciences this text includes empirical studies of neural encoding memory eye movements warfare business cycles and selection of time series analysis algorithms There are theoretical chapters on emergence and social dynamics and clinical contributions dealing with the measurement of quality of life for psychiatric patients psychosis the organization of self and the role of love in family dynamics Finally ideas from non linear dynamics are applied to understanding the creative process

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