



Current Theories in Theoretical Biology

A Dutch Perspective

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Current Themes In Theoretical Biology

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Current Themes In Theoretical Biology:

Current Themes in Theoretical Biology Thomas A.C. Reydon, Lia Hemerik, 2005-12-05 The present volume originated in 2001 when we together with our publishing editors at then Kluwer Academic Publishers realized that the 50th volume of our journal *Acta Biotheoretica* would see the light. We felt that this milestone should not pass unnoticed and that the appropriate way to mark it would be the publication of a special volume of papers on theoretical biology. While editing this book during 2003 and early 2004 we realized that another milestone was not far off: in 2005 it will be 70 years ago that the journal was founded. We hope that the book lying before you will serve well to mark both events. The papers collected here have been written on invitation by representatives of the theoretical biology community in The Netherlands. They are intended to reflect the entire spectrum of topics on which *Acta Biotheoretica* publishes, ranging from philosophy of biology on one end to mathematical biology on the other. All chapters except our own introductory one have been peer reviewed according to the standards that are maintained with respect to regular submissions to *Acta Biotheoretica*. **A**

Critical Overview of Biological Functions Justin Garson, 2016-03-30 This book is a critical survey of and guidebook to the literature on biological functions. It ties in with current debates and developments and at the same time it looks back on the state of discourse in naturalized teleology prior to the 1970s. It also presents three significant new proposals. First it describes the generalized selected effects theory which is one version of the selected effects theory maintaining that the function of a trait consists in the activity that led to its differential persistence or reproduction in a population and not merely its differential reproduction. Secondly it advances within discipline pluralism as opposed to between discipline pluralism a new form of function pluralism which emphasizes the coexistence of function concepts within diverse biological sub disciplines. Lastly it provides a critical assessment of recent alternatives to the selected effects theory of function namely the weak etiological theory and the systems theoretic theory. The book argues that to the extent that functions purport to offer causal explanations for the existence of a trait there are no viable alternatives to the selected effects view. The debate about biological functions is still as relevant and important to biology and philosophy as it ever was. Recent controversies surrounding the ENCODE Project Consortium in genetics, the nature of psychiatric classification and the value of ecological restoration all point to the continuing relevance to biology of philosophical discussion about the nature of functions. In philosophy ongoing debates about the nature of biological information, intentionality, health and disease mechanism and even biological trait classification are closely related to debates about biological functions. *Current Trends in Theoretical*

Computer Science Gheorghe Păun, Arto Salomaa, 2001 The scientific developments at the end of the past millennium were dominated by the huge increase and diversity of disciplines with the common label computer science. The theoretical foundations of such disciplines have become known as theoretical computer science. This book highlights some key issues of theoretical computer science as they seem to us now at the beginning of the new millennium. The text is based on columns

and tutorials published in the Bulletin of the European Association for Theoretical Computer Science in the period 1995-2000. The columnists themselves selected the material they wanted for the book and the editors had a chance to update their work. Indeed, much of the material presented here appears in a form quite different from the original. Since the presentation of most of the articles is reader friendly and does not presuppose much knowledge of the area, the book constitutes suitable supplementary reading material for various courses in computer science.

Life on Earth and other Planetary Bodies Arnold Hanslmeier, Stephan Kempe, Joseph Seckbach, 2012-10-29. A trio of editors (Professors from Austria, Germany, and Israel) present *Life on Earth and other Planetary Bodies*. The contributors are from twenty various countries and present their research on life here as well as the possibility for extraterrestrial life. This volume covers concepts such as life's origin, hypothesis of Panspermia, and of life possibility in the Cosmos. The topic of extraterrestrial life is currently hot and the object of several congresses and conferences. While the diversity of normal biota is well known, life on the edge of the extremophiles is more limited and less distributed. Other subjects discussed are Astrobiology with the frozen worlds of Mars, Europa, and Titan, where extant or extinct microbial life may exist in subsurface oceans; conditions on icy Mars with its saline, alkaline, and liquid water, which has been recently discovered; chances of habitable Earth-like or the terrestrial analogues, exoplanets, and SETI's search for extraterrestrial intelligence.

Current Trends in Mathematical Analysis and Its Interdisciplinary Applications Hemen Dutta, Ljubiša D. R. Kočinac, Hari M. Srivastava, 2019-08-23. This book explores several important aspects of recent developments in the interdisciplinary applications of mathematical analysis (MA) and highlights how MA is now being employed in many areas of scientific research. Each of the 23 carefully reviewed chapters was written by experienced experts in respective field and will enrich readers' understanding of the respective research problems, providing them with sufficient background to understand the theories, methods, and applications discussed. The book's main goal is to highlight the latest trends and advances, equipping interested readers to pursue further research of their own. Given its scope, the book will especially benefit graduate and PhD students, researchers in the applied sciences, educators, and engineers with an interest in recent developments in the interdisciplinary applications of mathematical analysis.

Species Problems and Beyond John S. Wilkins, Frank E. Zachos, Igor Ya. Pavlinov, 2022-06-14. *Species Problems and Beyond* offers a collection of up-to-date essays discussing from an interdisciplinary perspective the many ramifications of the Species Problem. The authors represent experts in the philosophy of biology in species-level evolutionary investigations and in biodiversity studies and conservation. Some of the topics addressed concern the context sensitivity of the term species, species as individuals, processes, natural kinds, or as operative concepts, species delimitation in the age of Big genomic Data, and taxonomic inflation and its consequences for conservation strategies. The carefully edited volume will be an invaluable resource for philosophers of biology and evolutionary biologists alike.

Olivier Rieppel, Rowe Family Curator of Evolutionary Biology, Negaunee Integrative Research Center, Field Museum, USA. Species or the Species Problem is a topic in science in the philosophy of

science and in general philosophy In fact it encompasses many aspects of the same problem and these are dealt with in this volume Species are often thought of as fundamental units of biological matter to be used in ecology conservation classification and biodiversity The chapters in this book present opposing views on the current philosophical and conceptual issues of the Species Problem in biology Divided into four sections Concepts and Theories Practice and Methods Ranks and Trees and Names and Metaphysics and Epistemologies the book is authored by biologists philosophers and historians many leaders in their fields Topics include ontology of species definitions of both species category and units species rank speciation issues nomenclature ecology and species conservation Species Problems and Beyond aims to clarify the contemporary issues of the Species Problem It is ideal for use in upper level seminars and courses in Evolutionary Biology Philosophy of Science Philosophy of Biology Systematics and Taxonomy and Phylogenetics Cladistics and for any scholar in these fields On Biopolitics Marco Piasentier,2020-07-07 In On Biopolitics Marco Piasentier discusses one of the most persistent questions in biopolitical theory the divide between nature and language and attempts to redraw the conceptual map which has traditionally defined the permissible paths to address this question Taking his cue from Foucault s exhortation to think philologically and biologically Piasentier traverses the main theoretical and methodological frameworks which have informed the biopolitical debate on nature and language biology and politics Biopolitical theory becomes the center of gravity for an investigation encompassing diverse philosophical models from the Heideggerian linguistic turn to post Darwinian naturalism The divide between traditions is not proof of an impossible encounter but constitutes the site for a new conceptual topography Working in this interdisciplinary space Piasentier puts into question the command of language and the ends of nature two vestiges of a human all too human worldview that preclude the possibility of thinking philologically and biologically about biopolitics On Biopolitics An Inquiry into Nature and Language is essential reading for humanities and social sciences scholars with an interest in moving beyond debates about nature and language Future Sustainable Ecosystems Nathaniel K Newlands,2016-10-03 Future Sustainable Ecosystems Complexity Risk Uncertainty provides an interdisciplinary integrative overview of environmental problem solving using statistics It shows how statistics can be used to solve diverse environmental and socio economic problems involving food water energy scarcity and climate change risks It synthesizes interdisciplinary theory concepts definitions models and findings involved in complex global sustainability problem solving making it an essential guide and reference It includes real world examples and applications making the book accessible to a broader interdisciplinary readership Discussions include a broad integrated perspective on sustainability integrated risk multi scale changes and impacts taking place within ecosystems worldwide State of the art statistical techniques including Bayesian hierarchical spatio temporal agent based and game theoretic approaches are explored The author then focuses on the real world integration of observational and experimental data and its use within statistical models Autecology Gimme H. Walter,Rob Hengeveld,2014-04-24 This book spells out the theoretical structure methodology and

philosophy of the science of autecology The autecological approach focuses on the interactions of individual organisms and their species specific adaptations with the spatio temporal dynamics of their environment as a basis for interpreting patterns of diversity and abundance in nat **Recent Trends in Theoretical Psychology** Henderikus J. Stam, Leendert P.

Mos, Warren Thorngate, Bernie Kaplan, 2012-12-06 I was asked and alas with little reflection on the magnitude of the task thoughtlessly consented to take on the simple job of writing a preface to the collection of essays comprising this volume That I was asked to carry out this simple task was probably due to one consideration I was the main representative of the host institution Clark University for the 1991 ISTP Conference at which the talks foreshadowing and outlining the extended remarks here printed were originally presented and hence as a token of gratitude I was vouchsafed the honor of setting the stage It did not dawn on me until I began piecemeal to receive and accumulate over a period of months the remarkably diverse and heterogeneous essays precipitated by the conference how mind boggling it would be to pen a preface pertinent to such an aggregate of prima acie unrelated articles Typically prefaces to collections of essays from different hands are attempts by the prefator or a pride of prefators to provide an overview a concise map of the complex terrain which readers are invited to enter or to direct the attention of potential readers to what the editors take to be the essential or central themes of each of the variegated articles a practice which not infrequently and often not unjustifiably irritates and even enrages individual authors who object to the complexity profundity and nuanced character of their thought being reduced to clicMs and editorial equivalents of sound bites *Molecular Mechanisms of Plant and Microbe Coexistence* Chandra

Shekhar Nautiyal, Patrice Dion, 2008-07-10 *Molecular Mechanisms of Plant and Microbe Coexistence* presents studies on the complex and manifold interactions of plants and microbes at the population genomics and proteomics level The role of soil microbial diversity in enhancing plant health and plant microbe beneficial symbioses is discussed Microbial communities are shown in the light of evolution Main topics include genome coexistence and the functional genomics and proteomics of plant associated microbes which could form the basis for new environmentally benign strategies to combat infectious plant diseases and regulate plant growth Further chapters focus on the role of signaling during the different stages of plant microbe coexistence in symbiotic or pathogenic relationships in quorum sensing and plant viral infections Methods for studying the interactions in the root zone complement the book which will certainly be of relevance in the practical application to agriculture food security and for maintaining the balance of our ecosystems Habitability of Other Planets

and Satellites Jean-Pierre de Vera, Joseph Seckbach, 2013-07-30 Is the Earth the right model and the only universal key to understand habitability the origin and maintenance of life Are we able to detect life elsewhere in the universe by the existing techniques and by the upcoming space missions This book tries to give answers by focusing on environmental properties which are playing a major role in influencing planetary surfaces or the interior of planets and satellites The book gives insights into the nature of planets or satellites and their potential to harbor life Different scientific disciplines are searching

for the clues to classify planetary bodies as a habitable object and what kind of instruments and what kind of space exploration missions are necessary to detect life Results from model calculations field studies and from laboratory studies in planetary simulation facilities will help to elucidate if some of the planets and satellites in our solar system as well as in extra solar systems are potentially habitable for life

Genesis - In The Beginning Joseph Seckbach,2012-03-19 Genesis In The Beginning deals with the origin and diversity of Life and early biological evolution and discusses the question of where hot or cold sources and when the beginning of Life took place Among the sections are chapters dealing with prebiotic chemical processes and considering self replication of polymers in mineral habitats One chapter is dedicated to the photobiological regime on early Earth and the emergence of Life This volume covers the role of symmetry information and order homochiral biomolecules in the beginning of Life The models of protocells and the genetic code with gene transfer are important topics in this volume Three chapters discuss the Panspermia hypothesis to answer Are we from outer Space Other chapters cover the Astrobiological aspects of Life in the Universe in extraterrestrial Planets of the Solar System and deal with cometary hydrosphere and its connection to Earth We conclude with the history and frontiers of Astrobiology

Recent Trends in Mathematical Modeling and High Performance Computing Vinai K. Singh,Yaroslav D. Sergeyev,Andreas Fischer,2021-08-23 This volume explores the connections between mathematical modeling computational methods and high performance computing and how recent developments in these areas can help to solve complex problems in the natural sciences and engineering The content of the book is based on talks and papers presented at the conference Modern Mathematical Methods and High Performance Computing in Science Technology M3HPCST held at Inderprastha Engineering College in Ghaziabad India in January 2020 A wide range of both theoretical and applied topics are covered in detail including the conceptualization of infinity efficient domain decomposition high capacity wireless communication infectious disease modeling and more These chapters are organized around the following areas Partial and ordinary differential equations Optimization and optimal control High performance and scientific computing Stochastic models and statistics Recent Trends in Mathematical Modeling and High Performance Computing will be of interest to researchers in both mathematics and engineering as well as to practitioners who face complex models and extensive computations

Genetic Analysis Raphael Falk,2009-05-14 There is a paradox lying at the heart of the study of heredity To understand the ways in which features are passed on down from one generation to the next we have to dig deeper and deeper into the ultimate nature of things from organisms to genes to molecules And yet as we do this increasingly we find we are out of focus with our subjects What has any of this to do with the living breathing organisms with which we started Organisms are living Molecules are not How do we relate one to the other In Genetic Analysis one of the most important empirical scientists in the field in the twentieth century attempts through a study of history and drawing on his own vast experience as a practitioner to face this paradox head on His book offers a deep and innovative understanding of our ways of thinking about heredity

Current Trends

and Future Developments on (Bio-) Membranes Angelo Basile, Maria Cristina Annesini, Vincenzo Piemonte, Catherine Charcosset, 2019-10-11 Current Trends and Future Developments on Bio Membranes Membrane Applications in Artificial Organs and Tissue Engineering reports on membrane applications in the field of biomedical engineering ranging from artificial organs to tissue engineering The book offers a comprehensive review of all the current scientific developments and various applications of membranes in this area It is a key reference text for R D managers in industry who are interested in the development of artificial and bioartificial organs as well as academic researchers and postgraduate students working in the wider area of artificial organs and tissue engineering Describes numerous bioartificial organ configurations and their relationships to membranes Includes new innovations and solutions in the development of artificial organs with membrane components Describes various membrane fabrication techniques for tissue engineering

In Search of Mechanisms Carl F. Craver, Lindley Darden, 2013-10-03 Neuroscientists investigate the mechanisms of spatial memory Molecular biologists study the mechanisms of protein synthesis and the myriad mechanisms of gene regulation Ecologists study nutrient cycling mechanisms and their devastating imbalances in estuaries such as the Chesapeake Bay In fact much of biology and its history involves biologists constructing evaluating and revising their understanding of mechanisms With In Search of Mechanisms Carl F Craver and Lindley Darden offer both a descriptive and an instructional account of how biologists discover mechanisms Drawing on examples from across the life sciences and through the centuries Craver and Darden compile an impressive toolbox of strategies that biologists have used and will use again to reveal the mechanisms that produce underlie or maintain the phenomena characteristic of living things They discuss the questions that figure in the search for mechanisms characterizing the experimental observational and conceptual considerations used to answer them all the while providing examples from the history of biology to highlight the kinds of evidence and reasoning strategies employed to assess mechanisms At a deeper level Craver and Darden pose a systematic view of what biology is of how biology makes progress of how biological discoveries are and might be made and of why knowledge of biological mechanisms is important for the future of the human species

The Public Work of Rhetoric John M. Ackerman, David J. Coogan, 2013-03-15 The Public Work of Rhetoric presents the art of rhetorical techn as a contemporary praxis for civic engagement and social change which is necessarily inclusive of people inside and outside the academy In this provocative call to action editors John M Ackerman and David J Coogan along with seventeen other accomplished contributors offer case studies and criticism on the rhetorical practices of citizen scholars pursuing democratic ideals in diverse civic communities with partnerships across a range of media institutions exigencies and discourses Challenging conventional research methodologies and the traditional insularity of higher education these essays argue that civic engagement as a rhetorical act requires critical attention to our notoriously veiled identity in public life to our uneasy affiliation with democracy as a public virtue and to the transcendent powers of discourse and ideology This can be accomplished the contributors argue by building on the compatible traditions of

materialist rhetoric and community literacy two vestiges of rhetoric's dual citizenship in the fields of communication and English This approach expresses a collective desire in rhetoric for more politically responsive scholarship more visible impact in public life and more access to the critical spaces between universities and their communities The compelling case studies in *The Public Work of Rhetoric* are located in inner urban and postindustrial communities where poverty is the overriding concern in afterschool and extracurricular alternatives that offer new routes to literate achievement in new media and digital representations of ethnic cultures designed to promote chosen identities in neighborhoods and scientific laboratories where race is the dominant value and in the policy borderlands between universities and the communities they serve Through these studies and accounts the contributors champion the notion that the public work of rhetoric is the tough labor of gaining access and trust learning the codes and histories of communities locating the situations in which rhetorical expertise is most effective and in many cases jointly defining the terms for gauging social change

Not by Design John Reiss, 2009-08-10 More than two centuries ago William Paley introduced his famous metaphor of the universe as a watch made by the Creator For Paley the exquisite structure of the universe necessitated a designer Today some 150 years since Darwin's *On the Origin of Species* was published the argument of design is seeing a revival This provocative work tells how Darwin left the door open for this revival and at the same time argues for a new conceptual framework that avoids the problematic teleology inherent in Darwin's formulation of natural selection In a wide ranging discussion of the historical and philosophical dimensions of evolutionary theory from the ancient Greeks to today John Reiss argues that we should look to the principle of the conditions for existence first formulated before *On the Origin of Species* by the French paleontologist Georges Cuvier to clarify the relation of adaptation to evolution Reiss suggests that Cuvier's principle can help resolve persistent issues in evolutionary biology including the proper definition of natural selection the distinction between natural selection and genetic drift and the meaning of genetic load Moreover he shows how this principle can help unite diverse areas of biology ranging from quantitative genetics and the theory of the levels of selection to evo devo ecology physiology and conservation biology

Recent Advances and Trends in Nonparametric Statistics M.G. Akritas, D.N. Politis, 2003-10-31 The advent of high speed affordable computers in the last two decades has given a new boost to the nonparametric way of thinking Classical nonparametric procedures such as function smoothing suddenly lost their abstract flavour as they became practically implementable In addition many previously unthinkable possibilities became mainstream prime examples include the bootstrap and resampling methods wavelets and nonlinear smoothers graphical methods data mining bioinformatics as well as the more recent algorithmic approaches such as bagging and boosting This volume is a collection of short articles most of which having a review component describing the state of the art of Nonparametric Statistics at the beginning of a new millennium Key features algorithmic approaches wavelets and nonlinear smoothers graphical methods and data mining biostatistics and bioinformatics bagging and boosting support vector machines resampling methods

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