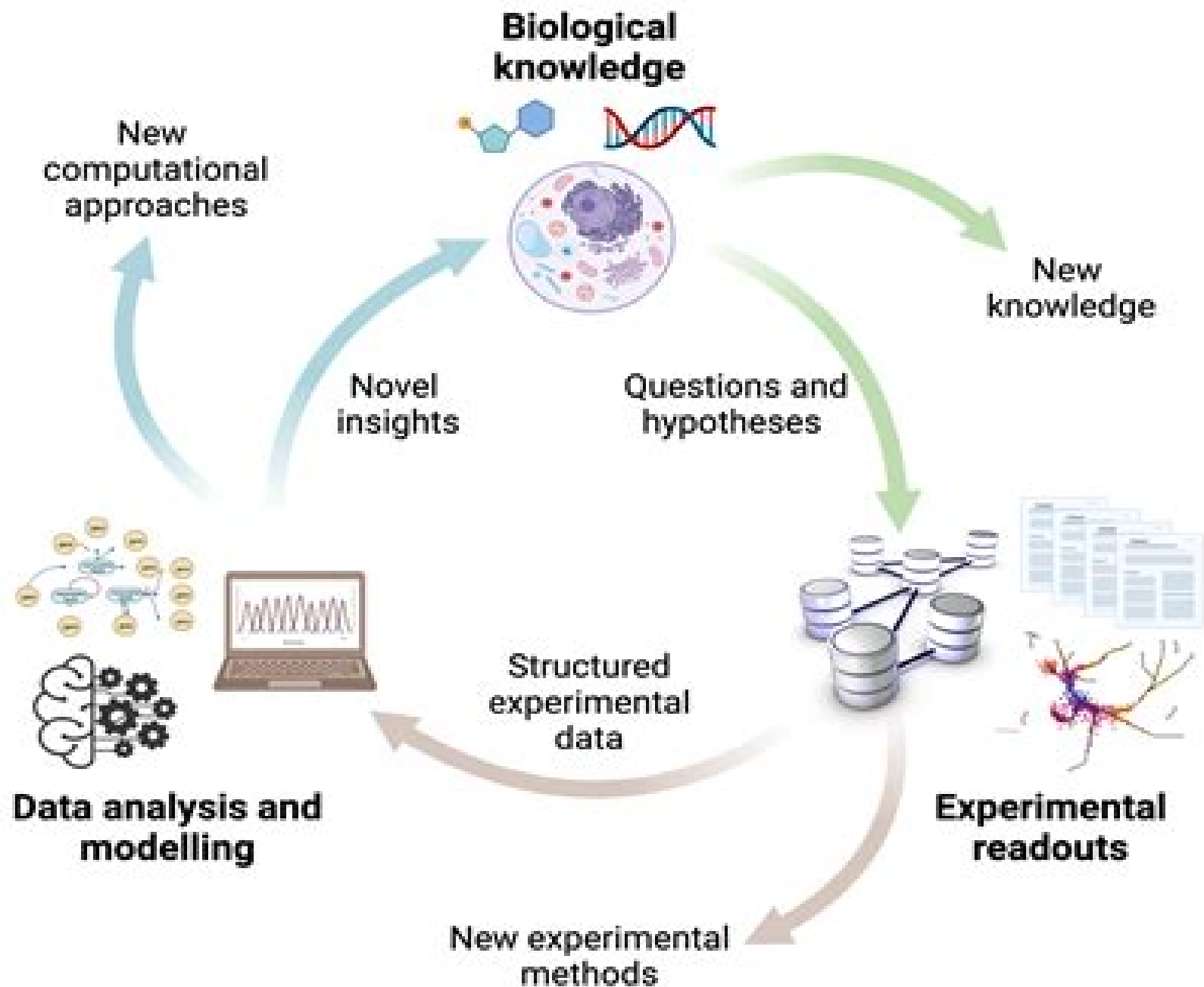




Biological Systems

Helmut Sigel, Astrid Sigel



Biological Systems:

Understanding the Dynamics of Biological Systems Werner Dubitzky, Jennifer Southgate, Hendrik Fuß, 2011-01-07 This book is intended as a communication platform to bridge the cultural conceptual and technological gap among the key systems biology disciplines of biology mathematics and information technology To support this goal contributors were asked to adopt an approach that appeals to audiences from different backgrounds

Modeling Biological Systems James W. Haefner, 2012-12-06 This book is intended as a text for a first course on creating and analyzing computer simulation models of biological systems The expected audience for this book are students wishing to use dynamic models to interpret real data much as they would use standard statistical techniques It is meant to provide both the essential principles as well as the details and equations applicable to a few particular systems and subdisciplines Biological systems however encompass a vast diverse array of topics and problems This book discusses only a select number of these that I have found to be useful and interesting to biologists just beginning their appreciation of computer simulation The examples chosen span classical mathematical models of well studied systems to state of the art topics such as cellular automata and artificial life I have stressed the relationship between the models and the biology over mathematical analysis in order to give the reader a sense that mathematical models really are useful to biologists In this light I have sought examples that address fundamental and I think interesting biological questions Almost all of the models are directly compared to quantitative data to provide at least a partial demonstration that some biological models can accurately predict

Emergence in Complex, Cognitive, Social, and Biological Systems Gianfranco Minati, Eliano Pessa, 2012-12-06 The systems movement is made up of many systems societies as well as of disciplinary researchers and researches explicitly or implicitly focusing on the subject of systemics officially introduced in the scientific community fifty years ago Many researches in different fields have been and continue to be sources of new ideas and challenges for the systems community To this regard a very important topic is the one of EMERGENCE Between the goals for the actual and future systems scientists there is certainly the definition of a general theory of emergence and the building of a general model of it The Italian Systems Society Associazione Italiana per la Ricerca sui Sistemi AIRS decided to devote its Second National Conference to this subject Because AIRS is organized under the form of a network of researchers institutions scholars professionals and teachers its research activity has an impact at different levels and in different ways Thus the topic of emergence was not only the focus of this conference but it is actually the main subject of many AIRS activities

Computer Modeling and Simulations of Complex Biological Systems, 2nd Edition S. Sitharama Iyengar, 1997-11-20 This unique text explores the use of innovative modeling techniques in effecting a better understanding of complex diseases such as AIDS and cancer From a way of representing the computational properties of protein folding problems to computer simulation of bimodal neurons and networks Computer Modeling and Simulations of Complex Biological Systems examines several modeling methodologies and integrates them across a variety of disciplines

This interdisciplinary approach suggests new ways to solve complex problems pertaining to biological systems. Written in clear and simple terms appropriate for both the novice and the experienced researcher, the book presents a step by step approach to the subject and includes numerous examples that explain the concepts presented in the text.

Identifiability and Regression Analysis of Biological Systems Models Paola Lecca, 2020-03-05. This richly illustrated book presents the objectives of and the latest techniques for the identifiability analysis and standard and robust regression analysis of complex dynamical models. The book first provides a definition of complexity in dynamic systems by introducing readers to the concepts of system size, density of interactions, stiff dynamics, and hybrid nature of determination. In turn, it presents the mathematical foundations of and algorithmic procedures for model structural and practical identifiability analysis, multilinear and non-linear regression analysis, and best predictor selection. Although the main fields of application discussed in the book are biochemistry and systems biology, the methodologies described can also be employed in other disciplines such as physics and the environmental sciences. Readers will learn how to deal with problems such as determining the identifiability conditions, searching for an identifiable model, and conducting their own regression analysis and diagnostics without supervision. Featuring a wealth of real world examples, exercises, and codes in R, the book addresses the needs of doctoral students and researchers in bioinformatics, bioengineering, systems biology, biophysics, biochemistry, the environmental sciences, and experimental physics. Readers should be familiar with the fundamentals of probability and statistics as provided in first year university courses and a basic grasp of R.

New Trends in Research and Utilization of Solar Energy through Biological Systems Mislin, Bachofen, 2013-11-21.

Automation Theory and Modeling of Biological Systems Tsetlin, 1974-02-08. Automation Theory and Modeling of Biological Systems.

Ion-Selective Electrodes for Biological Systems Christopher Fry, Stephen Langley E. N., Stephen Langley, 2004-02-03. Ion Selective Electrodes for Biological Systems provides a user friendly and practical guide to the manufacture and use of ion selective electrodes for a wide variety of experimental systems used in biology. The book is aimed at researchers with little practical experience in the field and will direct them through the steps involved in making electrodes, interpretation of the data, requirements of the recording apparatus, potential pitfalls involved in their use, and the range of situations in which they can be used. This is the first book that deals comprehensively with such practical details and will enable the reader to become competent in the use of ion selective electrodes.

Systems Biology Fred Boogerd, Frank J. Bruggeman, Jan-Hendrik S. Hofmeyr, H.V. Westerhoff, 2007-03-20. Systems biology is a vigorous and expanding discipline in many ways, a successor to genomics and perhaps unprecedented in its combination of biology with a great many other sciences, from physics to ecology, from mathematics to medicine, and from philosophy to chemistry. Studying the philosophical foundations of systems biology may resolve a longer standing issue, i.e. the extent to which Biology is entitled to its own scientific foundations rather than being dominated by existing philosophies. Answers the question of what distinguishes the living from the non living. An in depth look

to a vigorous and expanding discipline from molecule to system Explores the region between individual components and the system

Energy and Information Transfer in Biological Systems Larissa S. Brizhik, Francesco Musumeci, Mae-Wan Ho, 2003 This volume contains papers based on the workshop OC Energy and Information Transfer in Biological Systems How Physics Could Enrich Biological UnderstandingOCO held in Italy in 2002 The meeting was a forum aimed at evaluating the potential and outlooks of a modern physics approach to understanding and describing biological processes especially regarding the transition from the microscopic chemical scenario to the macroscopic functional configurations of living matter In this frame some leading researchers presented and discussed several basic topics such as the photon interaction with biological systems also from the viewpoint of photon information processes and of possible applications the influence of electromagnetic fields on the self organization of biosystems including the nonlinear mechanism for energy transfer and storage and the influence of the structure of water on the properties of biological matter *Formal Modeling: Actors; Open Systems, Biological Systems* Gul Agha, Olivier Danvy, José Meseguer, 2011-10-30 This Festschrift volume published in honor of Carolyn Talcott on the occasion of her 70th birthday contains a collection of papers presented at a symposium held in Menlo Park California USA in November 2011 Carolyn Talcott is a leading researcher and mentor of international renown among computer scientists She has made key contributions to a number of areas of computer science including semantics and verification of programming languages foundations of actor based systems middleware meta architectures and systems Maude and rewriting logic and computational biology The 21 papers presented are organized in topical sections named Essays on Carolyn Talcott actors and programming languages cyberphysical systems middleware and meta architectures formal methods and reasoning tools and computational biology Information Processing and Biological Systems Samuli Niiranen, Andre Ribeiro, 2011-03-10 Living beings require constant information processing for survival In cells information is being processed and propagated at various levels from the gene regulatory network to chemical pathways to the interaction with the environment How this is achieved and how information is coded is still poorly understood For example what a cell interprets as information in the temporal level of an mRNA and what is interpreted as noise remains an open question Recently information theoretical methods and other tools developed in the context of engineering and natural sciences have been applied to study diverse biological processes This book covers the latest findings on how information is processed in various biological processes ranging from information processing and propagation in gene regulatory networks to information processing in natural language An overview is presented of the state of the art in information processing in biological systems and the opinion of current leaders in this research field on future research directions *Metal Ions in Biological Systems* Helmut Sigel, Astrid Sigel, 1990-06-28 Thirty chapters provide a handbook like treatment of magnesium and its function in the environment its bioinorganic chemistry its role for plants and in animal and human nutrition its biochemistry and physiology and its relation to human health and disease The last 20 years have seen a prolifer

Mathematical Approaches to Biological Systems Toru Ohira, Tohru Uzawa, 2015-03-18 This book presents the most recent mathematical approaches to the growing research area of networks oscillations and collective motions in the context of biological systems Bringing together the results of multiple studies of different biological systems this book sheds light on the relations among these research themes Included in this book are the following topics feedback systems with time delay and threshold of sensing dead zone robustness of biological networks from the point of view of dynamical systems the hardware oriented neuron modeling approach a universal mechanism governing the entrainment limit under weak forcing the robustness mechanism of open complex systems situation dependent switching of the cues primarily relied on by foraging ants and group chase and escape Research on different biological systems is presented together not separated by specializations or by model systems Therefore the book provides diverse perspectives at the forefront of current mathematical research on biological systems especially focused on networks oscillations and collective motions This work is aimed at advanced undergraduate graduate and postdoctoral students as well as scientists and engineers It will also be of great use for professionals in industries and service sectors owing to the applicability of topics such as networks and synchronizations

Dynamics of Biological Systems Michael Small, 2011-08-25 From the spontaneous rapid firing of cortical neurons to the spatial diffusion of disease epidemics biological systems exhibit rich dynamic behaviour over a vast range of time and space scales Unifying many of these diverse phenomena Dynamics of Biological Systems provides the computational and mathematical platform from which to understand the underlying processes of the phenomena Through an extensive tour of various biological systems the text introduces computational methods for simulating spatial diffusion processes in excitable media such as the human heart as well as mathematical tools for dealing with systems of nonlinear ordinary and partial differential equations such as neuronal activation and disease diffusion The mathematical models and computer simulations offer insight into the dynamics of temporal and spatial biological systems including cardiac pacemakers artificial electrical defibrillation pandemics pattern formation flocking behaviour the interaction of autonomous agents and hierarchical and structured network topologies Tools from complex systems and complex networks are also presented for dealing with real phenomenological systems With exercises and projects in each chapter this classroom tested text shows students how to apply a variety of mathematical and computational techniques to model and analyze the temporal and spatial phenomena of biological systems MATLAB implementations of algorithms and case studies are available on the author's website

Systems Biology Application in Synthetic Biology Shailza Singh, 2016-09-08 This book introduces students to methods that will help them understand behaviour in terms of cellular components and their interactions in non intuitive ways which calls for an interdisciplinary approach combining mathematical chemical computational and biological strategies Tibor Ganti was one of the early pioneers who proposed a theoretical framework to understand living principles in terms of chemical transformation cycles and their coupling The twenty first century then brought with it a novel systems paradigm

which shone new light on all previous work and was accompanied by numerous implications for the way we conceive of chemical and biological complexity today This book seeks to equip students to take advantage of any field that investigates living systems Based on a conceptualisation of science oriented branches engineering oriented branches and biology as astoundingly complex fields those structures laden with biochemical detail encompass a deeper theory unifying our knowledge of designed systems Readers will be pleasantly surprised at how lucidly the topics are presented The book offers an indispensable resource for students and professionals working in systems and synthetic biology or any of the various related fields of research

Systems Biology Dimitrios Vlachakis, 2019-06-19 Systems biology is the inevitable outcome of long years of knowledge acquisition and data accumulation The aim of systems biology is to integrate in a seamless way all existing knowledge in interconnected disciplines stretching from modern biomedical research to physics chemistry and mathematics The main integration tool of such complex biomedical systems is via computational and mathematical modeling In this direction a series of state of the art computer science techniques are used namely data mining and fusion machine learning and deep learning all under the prism of big data All in all systems biology is at the arrowhead of modern and state of the art biomedical research by attempting to address key biological questions describing holistically complex biological systems

Mechanistic Approaches to Interactions of Electric and Electromagnetic Fields with Living Systems Martin Blank, E. Findl, 2013-11-11 Although there is general agreement that exogenous electric and electromagnetic fields influence and modulate the properties of biological systems there is no consensus regarding the mechanisms by which such fields operate It is the purpose of this volume to bring together and examine critically the mechanistic models and concepts that have been proposed We have chosen to arrange the papers in terms of the level of biological organization emphasized by the contributors Some papers overlap categories but the progression from ions and membrane surfaces through macromolecules and the membrane matrix to integrated systems establishes a mechanistic chain of causality that links the basic interactions in the relatively well understood simple systems to the complex living systems where all effects occur simultaneously The backgrounds of the invited contributors include biochemistry biophysics cell biology electrical engineering electrochemistry electrophysiology medicine and physical chemistry As a result of this diversity the mechanistic models reflect the differing approaches used by these disciplines to explain the same phenomena Areas of agreement define the common ground while the areas of divergence provide opportunities for refining our ideas through further experimentation To facilitate the interaction between the different points of view the authors have clearly indicated those published observations that they are trying to explain i e the experiments that have been critical in their thinking This should establish a consensus regarding important observations In the discussion of theories

Robustness and Evolvability in Living Systems Andreas Wagner, 2013-10-24 All living things are remarkably complex yet their DNA is unstable undergoing countless random mutations over generations Despite this instability most animals do not grow two heads or die plants continue to thrive and

bacteria continue to divide Robustness and Evolvability in Living Systems tackles this perplexing paradox The book explores why genetic changes do not cause organisms to fail catastrophically and how evolution shapes organisms robustness Andreas Wagner looks at this problem from the ground up starting with the alphabet of DNA the genetic code RNA and protein molecules moving on to genetic networks and embryonic development and working his way up to whole organisms He then develops an evolutionary explanation for robustness Wagner shows how evolution by natural selection preferentially finds and favors robust solutions to the problems organisms face in surviving and reproducing Such robustness he argues also enhances the potential for future evolutionary innovation Wagner also argues that robustness has less to do with organisms having plenty of spare parts the redundancy theory that has been popular and more to do with the reality that mutations can change organisms in ways that do not substantively affect their fitness Unparalleled in its field this book offers the most detailed analysis available of all facets of robustness within organisms It will appeal not only to biologists but also to engineers interested in the design of robust systems and to social scientists concerned with robustness in human communities and populations

Dimensions of Human Behavior Elizabeth D. Hutchison, 2008 What is it about the multiple dimensions of person environment and time that social workers need to understand How do diversity and inequality play a role in human behavior How does our biology spirituality and psychology impact behavior And finally what can we learn about how social institutions families groups organizations and communities impact the vast range of human behaviors The Third Edition of this powerful text aims to examine these dimensions by expanding on these important questions In this text you will meet social workers and clients from a variety of work settings and situations who bring the passion and power of social work to life through engaging case studies found throughout the text These case studies help apply the latest theory and research to real life practice situations The Third Edition offers new case studies and is thoroughly updated and revised to reflect recent census data developing trends and cutting edge research on human behavior New to the Third Edition Added coverage of international issues Human behavior is put in global context throughout the book Increased focus on social justice and diversity More content has been added on human diversity related to gender race and ethnicity culture sexual orientation and disability Engages the reader through a variety of illustrative features New case studies exhibits photos throughout and Web resources have been added to provide the most up to date information High Quality Ancillaries Student Study Website Help your students succeed with this new companion student study site at <http://www.sagepub.com/pandestudy> Students can review chapter highlights and summaries take practice quizzes and study via student flash cards on the Web In addition students can download podcasts which contain important highlights presented by the author Expanded Instructor's Resource CD New to this edition instructors can create tests using a new electronic test bank In addition this resource cd contains powerpoint slides teaching tips suggested classroom activities and more and is available to qualified adopters IRCDs are available for qualified instructors only To request an IRCD for this book please contact Customer Care at

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