

Lecture Notes in Biomathematics

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Mathematical Models
in Biological Discovery



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Mathematical Models In Biological Discovery

**Jean-Pierre Gabriel, Claude
Lefevre, Philippe Picard**



Mathematical Models In Biological Discovery:

Mathematical Models in biological discovery, 1975

Mathematical Models in Biological Discovery D.L.

Solomon, C.F. Walter, 2013-03-13 When I was asked to help organize an American Association for the Advancement of Science symposium about how mathematical models have contributed to biology I agreed immediately. The subject is of immense importance and wide spread interest. However too often it is discussed in biologically sterile environments by mutual admiration society groups of theoreticians many of whom have never seen and most of whom have never done an original scientific experiment with the biological materials they attempt to describe in abstract and often prejudiced terms. The opportunity to address the topic during an annual meeting of the AAAS was irresistible. In order to try to maintain the integrity of the original intent of the symposium it was entitled Contributions of Mathematical Models to Biological Discovery. This symposium was organized by Daniel Solomon and myself held during the 141st annual meeting of the AAAS in New York during January 1975 sponsored by sections G and N Biological and Medical Sciences of the AAAS and the North American Regions of the Biometric Society and supported by grant BMS 75 0280 from the National Science Foundation. What follows in this volume are papers by nine of the participants who not only felt that they had something to say in a symposium entitled Contributions of Mathematical Models to Biological Discovery but who also were willing to record their ideas in more detail here.

Mathematical Models in Biological Discovery Daniel L. Solomon, Charles F. Walter, 1977 **CONTRIBUTIONS OF MATHEMATICAL MODELS TO BIOLOGICAL DISCOVERY- SYMPOSIUM- 141ST ANNUAL MEETING- PAPERS- AAAS.**

Dynamics of Mathematical Models in Biology Alessandra Rogato, Valeria Zazzu, Mario Guarracino, 2016-11-03

This volume focuses on contributions from both the mathematics and life science community surrounding the concepts of time and dynamicity of nature two significant elements which are often overlooked in modeling process to avoid exponential computations. The book is divided into three distinct parts: dynamics of genomes and genetic variation, dynamics of motifs and dynamics of biological networks. Chapters included in dynamics of genomes and genetic variation analyze the molecular mechanisms and evolutionary processes that shape the structure and function of genomes and those that govern genome dynamics. The dynamics of motifs portion of the volume provides an overview of current methods for motif searching in DNA, RNA and proteins, a key process to discover emergent properties of cells, tissues and organisms. The part devoted to the dynamics of biological networks covers networks aptly discusses networks in complex biological functions and activities that interpret processes in cells. Moreover chapters in this section examine several mathematical models and algorithms available for integration analysis and characterization. Once life scientists began to produce experimental data at an unprecedented pace it became clear that mathematical models were necessary to interpret data to structure information with the aim to unveil biological mechanisms, discover results and make predictions. The second annual Bringing Maths to Life workshop held in Naples, Italy, October 2015 enabled a bi-directional flow of ideas from an international group of mathematicians and

biologists The venue allowed mathematicians to introduce novel algorithms methods and software that may be useful to model aspects of life science and life scientists posed new challenges for mathematicians

Biological Motion Wolfgang Alt, Gerhard Hoffmann, 2013-11-11 behavior is not what an organism does itself but to what we point Therefore whether a type of behavior of an organism is adequate as a certain configuration of movements will depend on the environment in which we describe it Humberto Maturana Francisco Varela *El árbol del conocimiento* 1984 A thorough analysis of behavior must result in a scheme that shows all regularities that are to be found between the sensorial input and the motorical output of an animal This scheme is an abstract representation of the brain Valentin Braitenberg *Gehirngespinnste* 1973 During the 70ies when Biomathematics beyond Biomedical Statistics and Computing became more popular at universities and research institutes the problems dealt with came mainly from the general fields of Population Biology and Complex Systems Analysis such as epidemics ecosystems analysis morphogenesis genetics immunology and neurology see the first series of Springer Lecture Notes in Biomathematics Since then the picture has not considerably changed and it seems that a thorough analysis of behavior of single organisms and moreover of their mutual interactions is far from being understood On the contrary mathematical modellers and analysts have been well advised to restrict their investigations to specific aspects of biological behavior one of which is biological motion Until now only a few Conference Proceedings or Lecture Notes have paid attention to this important aspect some of the earlier examples being Vol 24 *The measurement of biological shape and shape changes* 1978 or Vol

Modelling of Patterns in Space and Time W. Jäger, J.D. Murray, 2013-03-13 This volume contains a selection of papers presented at the workshop *Modelling of Patterns in Space and Time* organized by the 80nderforschungsbereich 123 *Stochastische Mathematische Modelle* in Heidelberg July 4-8 1983 The main aim of this workshop was to bring together physicists chemists biologists and mathematicians for an exchange of ideas and results in modelling patterns Since the mathematical problems arising depend only partially on the particular field of applications the interdisciplinary cooperation proved very useful The workshop mainly treated phenomena showing spatial structures The special areas covered were morphogenesis growth in cell cultures competition systems structured populations chemotaxis chemical precipitation space time oscillations in chemical reactors patterns in flames and fluids and mathematical methods The discussions between experimentalists and theoreticians were especially interesting and effective The editors hope that these proceedings reflect at least partially the atmosphere of this workshop For the convenience of the reader the papers are ordered alphabetically according to authors However the table of contents can easily be grouped into the main topics of the workshop For practical reasons it was not possible to reproduce in colour the beautiful pictures of patterns shown at the workshop Since a larger number of half tone pictures could be included in this volume the loss of information has however been kept to a minimum The workshop has already stimulated cooperation between its participants and this volume is intended to spread this effect

Stochastic Methods in Biology Motoo Kimura, Gopinath Kallianpur, Takeyuki

Hida, 2013-03-13 The use of probabilistic methods in the biological sciences has been so well established by now that mathematical biology is regarded by many as a distinct discipline with its own repertoire of techniques. The purpose of the Workshop on stochastic methods in biology held at Nagoya University during the week of July 8-12, 1985, was to enable biologists and probabilists from Japan and the U.S. to discuss the latest developments in their respective fields and to exchange ideas on the applicability of the more recent developments in stochastic process theory to problems in biology. Eighteen papers were presented at the Workshop and have been grouped under the following headings: I Population genetics (five papers), II Measure-valued diffusion processes related to population genetics (three papers), III Neurophysiology (two papers), IV Fluctuation in living cells (two papers), V Mathematical methods related to other problems in biology (epidemiology, population dynamics, etc.) (six papers). An important feature of the Workshop and one of the reasons for organizing it has been the fact that the theory of stochastic differential equations (SDEs) has found a rich source of new problems in the fields of population genetics and neurobiology. This is especially so for the relatively new and growing area of infinite-dimensional measure-valued or distribution-valued SDEs. The papers in II and III and some of the papers in the remaining categories represent these areas.

Computers and Mathematical Models in Medicine D. Cardus, C. Vallbona, 2013-03-08 The papers gathered in this volume were presented at the medical sessions of the First Conference on Mathematics at the Service of Man held in Barcelona, Spain, July 11-16, 1977. Papers presented at the medical sessions were more numerous than those presented in any other single area of specialization covered in the conference. Because of this, the Publications Committee resolved that papers presented at medical sessions be published separately from the proceedings of the conference. The proceedings of the conference have been published by the Escola Tècnica Superior d'Arquitectura de la Universitat Politècnica de Barcelona. The papers contained in this volume were selected on the basis of current interest and willingness of the authors to publish. They are organized not according to the sequence in which they were presented at the conference but to the extent that this was possible in topic areas. As its name indicates, the principal purpose of the conference was to underscore the fact that mathematics is a science whose applications are relevant to many aspects of human activity. In the opinion of the editors of this volume, the conference met its objective with success both in terms of the broad variety of topics covered as well as by the number of nations that were represented at the conference in spite of the special circumstances prevailing in Spain at that time.

The Dynamics of Physiologically Structured Populations Johan A. Metz, Odo Diekmann, 2014-03-11

Mathematical Modelling and Computers in Endocrinology Rosalind McIntosh, 2012-12-06

The building of conceptual models is an inherent part of our interaction with the world and the foundation of scientific investigation. Scientists often perform the processes of modelling subconsciously, unaware of the scope and significance of this activity and the techniques available to assist in the description and testing of their ideas. Mathematics has three important contributions to make in biological modelling: 1. it provides unambiguous languages for expressing relationships at

both qualitative and quantitative levels of observation 2 it allows effective analysis and prediction of model behaviour and can thereby organize experimental effort productively 3 it offers rigorous methods of testing hypotheses by comparing models with experimental data by providing a means of objectively excluding unsuitable concepts the development of ideas is given a sound experimental basis Many modern mathematical techniques can be exploited only with the aid of computers These machines not only provide increased speed and accuracy in determining the consequences of model assumptions but also greatly extend the range of problems which can be explored The impact of computers in the biological sciences has been widespread and revolutionary and will continue to be so

Acanthaster and the Coral Reef: A Theoretical Perspective

Roger H. Bradbury, 2013-03-09 In August 1988 the Sixth International Coral Reef Symposium was held in Townsville resulting in an influx of most of the world's coral reef scientists to the city We seized this opportunity at the Australian Institute of Marine Science to run a small workshop immediately before the symposium on the outbreaks of the crown of thorns starfish *Acanthaster planci* We invited that small band of mathematicians who had been modelling the phenomenon and who may not have normally attended an international meeting so thoroughly dedicated to natural science to meet with those scientists who had been actively working on the phenomenon in the field John Casti notes in his delightful new book *Alternate Realities* Wiley 1989 If the natural role of the experimenter is to generate new observables by which we know the processes of Nature and the natural role of the mathematician is to generate new formal structures by which we can represent these processes then the system scientist finds his niche by serving as a broker between the two I think our book shows the fruits of that brokerage through the wide range of models explored within its pages the high level of collaboration and interaction across disciplines evident in the individual papers and in the emerging synthesis that reflects a far deeper understanding of this complex phenomenon than was possible even a few years ago

Math and Bio 2010

Lynn Arthur Steen, 2005 *Math and bio 2010* grew out of Meeting the Challenges Education across the Biological Mathematical and Computer Sciences a joint project of the Mathematical Association of America MAA the National Science Foundation Division of Undergraduate Education NSF DUE the National Institute of General Medical Sciences NIGMS the American Association for the Advancement of Science AAAS and the American Society for Microbiology ASM Foreword p vi

Lindenmayer

Systems, Fractals, and Plants Przemyslaw Prusinkiewicz, James Hanan, 2013-11-11 1 systems are a mathematical formalism which was proposed by Aristid Lindenmayer in 1968 as a foundation for an axiomatic theory of development The notion promptly attracted the attention of computer scientists who investigated 1 systems from the viewpoint of formal language theory This theoretical line of research was pursued very actively in the seventies resulting in over one thousand publications A different research direction was taken in 1984 by Alvy Ray Smith who proposed 1 systems as a tool for synthesizing realistic images of plants and pointed out the relationship between 1 systems and the concept of fractals introduced by Benoit Mandelbrot The work by Smith inspired our studies of the application of 1 systems to computer

graphics Originally we were interested in two problems Can 1 systems be used as a realistic model of plant species found in nature Can 1 systems be applied to generate images of a wide class of fractals It turned out that both questions had affirmative answers Subsequently we found that 1 systems could be applied to other areas such as the generation of tilings reproduction of a geometric art form from East India and synthesis of musical scores based on an interpretation of fractals This book collects our results related to the graphical applications of systems It is a corrected version of the notes which we prepared for the ACM SIGGRAPH 88 course on fractals Modeling and Management of Resources under Uncertainty Thomas L. Vincent, Yosef Cohen, Walter J. Grantham, Geoffrey P. Kirkwood, Jan M. Skowronski, 2013-03-08 This volume contains the proceedings of the second U S Australia workshop on Renewable Resource Management held at the East West Center Honolulu Hawaii December 9-12 1985 The workshop was jointly sponsored by the National Science Foundation USA and the Department of Science and Technology Australia under the U S Australia Cooperative Science Program The objective of the workshop was to focus on problems associated with the management of renewable resource systems A particular emphasis was given to methods for handling uncertain elements which are present in any real system Toward this end the participants were chosen so that the collective expertise included mathematical modeling dynamical control game theory ecology and practical management of real systems Each participant was invited to give an informal presentation in his field of expertise as related to the overall theme The formal papers contained in this volume were written after the workshop so that the authors could utilize the workshop experience in relating their own work to others To further encourage this exchange each paper contained in this volume was reviewed by two other participants who then wrote formal comments These comments with author's reply in some cases are attached to the end of each paper *Reasoning in 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 Mechanics and Biophysics of Hearing* Peter Dallos, C. Daniel Geisler, John W. Matthews, Mario A. Ruggero, Charles R. Steele, 2014-03-11 Proceedings of a workshop on the physics and biophysics of hearing that brought together experimenters and modelers working on all aspects of audition Topics covered include cochlear mechanical measurements cochlear models mechanicals and biophysics of hair cells efferent control and

ultrastructure **Stochastic Processes in Epidemic Theory** Jean-Pierre Gabriel, Claude Lefevre, Philippe Picard, 2014-03-11 This collection of papers gives a representative cross sectional view of recent developments in the field After a survey paper by C Lef vre 17 other research papers look at stochastic modeling of epidemics both from a theoretical and a statistical point of view Some look more specifically at a particular disease such as AIDS malaria schistosomiasis and diabetes Trees and Hierarchical Structures Andreas Dress, Arndt van Haeseler, 2013-03-09 The raison d etre of hierarchical clustering theory stems from one basic phenomenon This is the notorious non transitivity of similarity relations In spite of the fact that very often two objects may be quite similar to a third without being that similar to each other one still wants to classify objects according to their similarity This should be achieved by grouping them into a hierarchy of non overlapping clusters such that any two objects in one cluster appear to be more related to each other than they are to objects outside this cluster In everyday life as well as in essentially every field of scientific investigation there is an urge to reduce complexity by recognizing and establishing reasonable classification schemes Unfortunately this is counterbalanced by the experience of seemingly unavoidable deadlocks caused by the existence of sequences of objects each comparatively similar to the next but the last rather different from the first **Systems Medicine** , 2020-08-24 Technological advances in generated molecular and cell biological data are transforming biomedical research Sequencing multi omics and imaging technologies are likely to have deep impact on the future of medical practice In parallel to technological developments methodologies to gather integrate visualize and analyze heterogeneous and large scale data sets are needed to develop new approaches for diagnosis prognosis and therapy Systems Medicine Integrative Qualitative and Computational Approaches is an innovative interdisciplinary and integrative approach that extends the concept of systems biology and the unprecedented insights that computational methods and mathematical modeling offer of the interactions and network behavior of complex biological systems to novel clinically relevant applications for the design of more successful prognostic diagnostic and therapeutic approaches This 3 volume work features 132 entries from renowned experts in the fields and covers the tools methods algorithms and data analysis workflows used for integrating and analyzing multi dimensional data routinely generated in clinical settings with the aim of providing medical practitioners with robust clinical decision support systems Importantly the work delves into the applications of systems medicine in areas such as tumor systems biology metabolic and cardiovascular diseases as well as immunology and infectious diseases amongst others This is a fundamental resource for biomedical students and researchers as well as medical practitioners who need to need to adopt advances in computational tools and methods into the clinical practice Encyclopedic coverage one stop resource for access to information written by world leading scholars in the field of Systems Biology and Systems Medicine with easy cross referencing of related articles to promote understanding and further research Authoritative the whole work is authored and edited by recognized experts in the field with a range of different expertise ensuring a high quality standard Digitally innovative Hyperlinked references and

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