Lecture Notes in Biomathematics

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Mathematical Models in Biological Discovery

Mathematical Models In Biological Discovery

Eckart Frehland

Mathematical Models In Biological Discovery:

Mathematical Models in Biological Discovery D L Solomon,C F Walter,1977-03-01 **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 con tributed 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 biolog ical 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 irresistable In order to try to maintain the integrity f 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 falso were willing to record their ideas in more detail here Mathematical Models in Biological Discovery Daniel L. Solomon,Charles F Walter,1977 **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 become 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 and 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 **CONTRIBUTIONS OF MATHEMATICAL MODELS TO BIOLOGICAL DISCOVERY- SYMPOSIUM-141ST ANNUAL MEETING- PAPERS- AAAS.** , <u>Stochastic Methods in Biology</u> 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 dis cipline with its own repertoire of techniques The purpose of the Workshop on sto chastic 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 ap plicability 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 SDE s has found a rich source of new problems in the fields of population genetics and neuro biology This is especially so for the relatively new and growing area of infinite dimensional i e measure valued or distribution valued SDE s The papers in II and III and some of the papers in the remaining categories represent these areas *The Dynamics of Physiologically Structured Populations* Johan A. Metz,Odo Diekmann,2014-03-11

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 de scribe it Humberto Maturana Francisco Varela El arbol del conocimiento 1984 A thorough analysis of behavior must result in a scheme that shows all regularities that are to be found between the sensorical input and the motorical output of an animal This scheme is an abstract representation of the brain Valentin Braitenberg Gehirngespinste 1973 During the 70ies when Biomathematics beyond Biomedical Statistics and Com puting 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 *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 pre sented in any other single area of specialization covered in the conference Because pf 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 Esco1a Tecnica Superior d Arquitectura de 1a Universitat Po1itecnica of 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 accord ing 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 under score 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   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   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 work shop Modelling of Patterns in Space and Time organized by the 80nderforschungsbereich 123 8tochastische 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 mathe matical 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 alpha betically 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 parti cipants and this volume is intended to spread this effect **Stochastic Processes in Epidemic Theory** Jean-Pierre Gabriel,Claude Lefevre,Philippe Picard,2014-03-11 This collection of papers gives a representative cross selectional 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 **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 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 Aeanthaster planei 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 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 **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 **Systems Biology in Cancer Research and Drug Discovery** Asfar S Azmi,2012-09-29 Systems Biology in Cancer Research and Drug Discovery provides a unique collection of chapters by world class researchers describing the use of integrated systems biology and network modeling in the cancer field where traditional tools have failed to deliver expected promise This book touches four applications aspects of systems biology i in understanding aberrant signaling in cancer ii in identifying biomarkers and prognostic markers especially focused on angiogenesis pathways iii in unwinding microRNAs complexity and iv in anticancer drug discovery and in clinical trial design This book reviews the state of the art knowledge and touches upon cutting edge newer and improved applications especially in the area of network modeling It is aimed at an audience ranging from students academics basic researcher and clinicians in cancer research This book is expected to benefit the field of translational cancer medicine by bridging the gap between basic researchers computational biologists and clinicians who have one ultimate goal and that is to defeat cancer *Trees and Hierarchical Structures* Andreas Dress,Arndt van Haeseler,2013-03-09 The raison d etre of hierarchical dustering theory stems from one basic phe nomenon 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 dassify objects according to their similarity This should be achieved by grouping them into a hierarchy of non overlapping dusters such that any two objects in ne duster appear to be more related to each other than they are to objects outside this duster 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 das sification 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

Stochastic Transport Processes in Discrete Biological Systems Eckart Frehland,2013-03-13 These notes are in part based on a course for advanced students in the applications of stochastic processes held in 1978 at the University of Konstanz These notes contain the results of re cent studies on the stochastic description of ion transport through biological membranes In particular they serve as an introduction to an unified theory of fluctuations in complex biological transport systems We emphasize that the subject of this volume is not to introduce the mathematics of stochastic processes but to present a field of theoretical biophysics in which stochastic methods are important In the last years the study of membrane noise has become an important method in biophysics Valuable information on the ion transport mechanisms in membranes can be obtained from noise analysis A number of different processes such as the opening and closing of ion channels have been shown to be sources of the measured current or voltage fluctuations Bio logical transport systems can be complex For example the transport process can be coupled to other processes such as chemical reactions and take place in discontinuous structures of molecular dimensions Furthermore since there are strong electric fields or high concentration gradients across biological

membranes ion transport processes of biological relevance are mostly processes far from equilibrium For these reasons the development of new theoretical concepts has been necessary The concept of transport in discrete systems has turned out to be more appropriate than continuum models   *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 vol ume contains the proceedings of the second U S Austral ia 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 Austral ia under the U S Austral ia 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 whieh are present in any real system Toward this end the partiei pants 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 vo 1 ume were written after the workshop so that the authors coul d util ize 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   *Lindenmayer Systems, Fractals, and Plants* Przemyslaw Prusinkiewicz,James Hanan,2013-11-11 1 systems are a mathematical formalism which was proposed by Aristid 1indenmayer in 1968 as a foundation for an axiomatic theory of develop ment 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 Mandel brot 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

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