

BIOMATHEMATICS AND RELATED COMPUTATIONAL PROBLEMS

Edited by

Luigi M. Ricciardi



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Biomathematics And Related Computational Problems

L M Ricciardi



Biomathematics And Related Computational Problems:

Biomathematics and Related Computational Problems L.M. Ricciardi, 2012-12-06 Biomathematics emerged and rapidly grew as an independent discipline in the late sixties as scientists with various backgrounds in the mathematical biological and physical sciences gathered together to form Departments and Institutes centered around this discipline that many at that time felt should fall between the cracks of legitimate science For various reasons some of these new institutions vanished in the mid seventies particularly in the U S the main reason for their demise being economic Nevertheless good biomathematical so that the range research has been ceaselessly carried on by numerous workers worldwide of this activity appears now as truly impressive from useful and effective mathematical statements about problems that are firmly rooted in the wet reality of biology to deep theoretical investigations on outstanding basic questions It is also interesting to take note that some ideas and theories set forth by paleo biomathematicians almost a quarter of century ago are now becoming highly appreciated also by scientists engaged in quite different research fields For instance neural nets is the hot topic in computer science these days Well aware of the growing interest in this relatively new field years back I organized a small workshop on Biomathematics Current Status and Future Perspectives which was held at the University of Salerno during the middle of April 1980

Biomathematics and Related Computational Problems L M Ricciardi, 1988-06-30 **Numerical Bifurcation Analysis for Reaction-Diffusion Equations** Zhen Mei, 2013-03-09 Reaction diffusion equations are typical mathematical models in biology chemistry and physics These equations often depend on various parameters e g temperature catalyst and diffusion rate etc Moreover they form normally a nonlinear dissipative system coupled by reaction among different substances The number and stability of solutions of a reaction diffusion system may change abruptly with variation of the control parameters Correspondingly we see formation of patterns in the system for example an onset of convection and waves in the chemical reactions This kind of phenomena is called bifurcation Nonlinearity in the system makes bifurcation take place constantly in reaction diffusion processes Bifurcation in turn induces uncertainty in outcome of reactions Thus analyzing bifurcations is essential for understanding mechanism of pattern formation and nonlinear dynamics of a reaction diffusion process However an analytical bifurcation analysis is possible only for exceptional cases This book is devoted to numerical analysis of bifurcation problems in reaction diffusion equations The aim is to pursue a systematic investigation of generic bifurcations and mode interactions of a class of reaction diffusion equations This is realized with a combination of three mathematical approaches numerical methods for continuation of solution curves and for detection and computation of bifurcation points effective low dimensional modeling of bifurcation scenario and long time dynamics of reaction diffusion equations analysis of bifurcation scenario mode interactions and impact of boundary conditions

Advanced Neural Computers R. Eckmiller, 2014-06-28 This book is the outcome of the International Symposium on Neural Networks for Sensory and Motor Systems NSMS held in March 1990 in the FRG The NSMS symposium assembled 45 invited experts from

Europe America and Japan representing the fields of Neuroinformatics Computer Science Computational Neuroscience and Neuroscience As a rapidly published report on the state of the art in Neural Computing it forms a reference book for future research in this highly interdisciplinary field and should prove useful in the endeavor to transfer concepts of brain function and structure to novel neural computers with adaptive dynamical neural net topologies A feature of the book is the completeness of the references provided An alphabetical list of all references quoted in the papers is given as well as a separate list of general references to help newcomers to the field A subject index and author index also facilitate access to various details

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1993 Ecological Orbits Lev Ginzburg,Mark Colyvan,2004-04-29 Proposes a fresh approach to population biology and ecology This book proposes and develops an inertial view of population growth taking note of acceleration or rate of change of the growth rate between consecutive generations It is useful for population biologists ecological modellers and theoretical biologists and philosophers of science

Pattern Recognition with Neural Networks in C++ Abhijit S. Pandya,Robert B. Macy,1995-10-17 The addition of artificial neural network computing to traditional pattern recognition has given rise to a new different and more powerful methodology that is presented in this interesting book This is a practical guide to the application of artificial neural networks Geared toward the practitioner Pattern Recognition with Neural Networks in C covers pattern classification and neural network approaches within the same framework Through the book s presentation of underlying theory and numerous practical examples readers gain an understanding that will allow them to make judicious design choices rendering neural application predictable and effective The book provides an intuitive explanation of each method for each network paradigm This discussion is supported by a rigorous mathematical approach where necessary C has emerged as a rich and descriptive means by which concepts models or algorithms can be precisely described For many of the neural network models discussed C programs are presented for the actual implementation Pictorial diagrams and in depth discussions explain each topic Necessary derivative steps for the mathematical models are included so that readers can incorporate new ideas into their programs as the field advances with new developments For each approach the authors clearly state the known theoretical results the known tendencies of the approach and their recommendations for getting the best results from the method The material covered in the book is accessible to working engineers with little or no explicit background in neural networks However the material is presented in sufficient depth so that those with prior knowledge will find this book beneficial Pattern Recognition with Neural Networks in C is also suitable for courses in neural networks at an advanced undergraduate or graduate level This book is valuable for academic as well as practical research

Current Catalog National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70 *2nd International Workshop on Practical Applications of Computational Biology and Bioinformatics (IWPACBB 2008)* Juan Manuel Corchado Rodríguez,Francisco de Paz,Miguel P. Rocha,Florentino Fernández Riverola,2008-09-16 The success of Bioinformatics in

recent years has been prompted by research in molecular biology and medicine in initiatives like the human genome project. The volume and diversification of data has increased so much that it is very hard if not impossible to analyze it by human experts. The analysis of this growing body of data intensified by the development of a number of high throughput experimental techniques that are generating the so called omics data has prompted for new computational methods. New global approaches such as Systems Biology have been emerging replacing the reductionist view that dominated biology research in the last decades requiring the coordinated efforts of biological researchers with those related to data analysis, mathematical modelling and computer science. Computational methods have been helping in tasks related to knowledge discovery, modelling and optimization tasks. This workshop brings the opportunity to discuss applications of Bioinformatics and Computational Biology exploring the interactions between computer scientists, biologists and other scientific researchers. The IWPACBB technical program includes 29 papers: 23 long papers and 6 short papers selected from a submission pool of 51 papers from 9 different countries. We thank the excellent work of the local organization members and also from the members of the Program Committee for their excellent reviewing work.

October 2008
 Juan M Corchado, Juan F De Paz, Miguel P Rocha, Florentino Fernández Riverola
 Organization: Cybernetics And Systems '90 - Proceedings Of The Tenth European Meeting On Cybernetics And Systems Research
 Robert Trappl, 1990-03-01
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 How Many Demons Do We Need? Endophysical Self Creation of Material Structures and the Exophysical Mystery of Universal Libraries
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Nonlinear Dynamics and Chaos
 J Hogan, A R Krauskopf, Mario di Bernardo, R. Eddie Wilson, Hinke. M Osinga, Martin. E Homer, Alan. R Champneys, 2002-08-01
 Nonlinear dynamics has been successful in explaining complicated phenomena in well defined low dimensional systems. Now it is time to focus on real life problems that are high dimensional or ill defined, for example due to delay, spatial extent, stochasticity or the limited nature of available data. How can one understand the dynamics of such systems?

Scientific Highlights In Memory Of Leon Van Hove
 F Nicodemi, 1993-05-31
 The Scientific Highlights in Memory of Leon Van Hove meeting brought together many distinguished scientists and several top officials of the European Community in honor of Leon Van Hove, an outstanding European scientist who contributed immensely to the research and development of

mathematical and theoretical physics One of the most influential physicists of the post war period L on Van Hove inspired new research and work from statistical mechanics to field theory and multiparticle production The papers in this volume recollect L on Van Hove s early days as a scientist and recount his efforts in favor of scientific collaboration across national and international boundaries and of the cultural integration of Europe Such insight must surely interest those who seek beyond academic and research knowledge in physics to understand its history and development seen through the life and work of L on Van Hove

An Introduction to Structured Population Dynamics J. M. Cushing, 1998-01-01 This monograph introduces the theory of structured population dynamics and its applications focusing on the asymptotic dynamics of deterministic models

Ecodynamics Wilfried Wolff, Carl-J. Soeder, Friedhelm R. Drepper, 2013-03-07 Given the problems of the environment in relation to the ever growing civilization activities of man it is not surprising that in recent years more and more related data have been collected phenomena have been observed and concerns have been expressed The ecological systems of man s environment react to the impact of these civilization activities In fact quite often these reactions occur as shocks and surprises Acid rain and the related forest die backs are but one example Ecological systems consist of many components and their dynamics is thus complex The study of complexity is the underlying theme for work at KFA Jilich A major part of this work concerns the physics of condensed matter including polymers spin glasses surfaces and layers Another part relates to micro electronics in the submicrometre range in its relation to the design of vector and parallel computers Supercomputing characterizes this search for the understanding of complexity further But equally the work on the chemistry of the atmosphere radio agronomy biotechnology and research on information processing on the molecular level must also be mentioned To make the picture complete at KFA Jilich work on reactor technology fusion research and energy systems of course continues These are complex systems too

Skill and Education: Reflection and Experience Bo Göranson, Magnus Florin, 2012-12-06 This book has an important starting point in the conference held in Stockholm in May June 1988 on Culture Language and Artificial Intelligence It assembled more than 300 researchers and practitioners in the fields of technology philosophy history of ideas literature linguistics social science etc The conference was an initiative from the Swedish Center for Working Life based on the project AI Based Systems and the Future of Language Knowledge and Responsibility in Professions within the COST 13 programme of the European Commission Participants in the conference and researchers related to its aims were chosen to contribute to this book It is preceded by Knowledge Skill and Artificial Intelligence ed B Göranson and I Josefson Springer Verlag 1988 Artificial Intelligence Culture and Language ed B Göranson and M Florin Springer Verlag 1990 and Dialogue and Technology Art and Knowledge ed B Göranson and M Florin Springer Verlag 1991 The two latter books have the same conference connection as this one and their aim is to present the contours of a research field with a multitude of issues that demands thorough investigation The contributors thinking in this field varies greatly so do their styles of writing For example contributors have varied in their choice of he or she for the third person

No distinction is intended but chapters have been left with the original usage to avoid extensive changes Similarly individual contributors preference as to notes or reference lists have been followed

Nonlinear Wave Processes in Excitable Media Arunn V. Holden, Mario Markus, Hans G. Othmer, 2013-12-21 Proceedings of a NATO ARW held in Leeds UK

September 11-15 1989

Foundations and Tools for Neural Modeling José Mira, 1999 This book constitutes together with its companion LNCS 1606 the refereed proceedings of the International Work Conference on Artificial Neural Networks IWANN 99 held in Alicante Spain in June 1999 The 91 revised papers presented were carefully reviewed selected for inclusion in the book This volume is devoted to applications of biologically inspired artificial neural networks in various engineering disciplines The papers are organized in parts on artificial neural nets simulation implementation image processing engineering applications

Universality And Emergent Computation In Cellular Neural Networks Radu Dogaru, 2003-03-13 Cellular computing is a natural information processing paradigm capable of modeling various biological physical and social phenomena as well as other kinds of complex adaptive systems The programming of a cellular computer is in many respects similar to the genetic evolution in biology the result being a proper cell design and a task specific gene How should one program the cell of a cellular computer such that a dynamic behavior with computational relevance will emerge What are the rules for designing a computationally universal and efficient cell The answers to those questions can be found in this book It introduces the relatively new paradigm of the cellular neural network from an original perspective and provides the reader with the guidelines for understanding how such cellular computers can be programmed and designed optimally The book contains numerous practical examples and software simulators allowing readers to experiment with the various phases of designing cellular computers by themselves

Difference Equations And Discrete Dynamical Systems - Proceedings Of The 9th International Conference Linda Allen, Bernd Aulbach, Saber N Elaydi, Robert Sacker, 2005-10-07

Difference Equations or Discrete Dynamical Systems is a diverse field which impacts almost every branch of pure and applied mathematics Not surprisingly the techniques that are developed vary just as broadly No more so is this variety reflected than at the prestigious annual International Conference on Difference Equations and Applications Organized under the auspices of the International Society of Difference Equations the Conferences have an international attendance and a wide coverage of topics The contributions from the conference collected in this volume invite the mathematical community to see a variety of problems and applications with one ingredient in common the Discrete Dynamical System Readers may also keep abreast of the many novel techniques and developments in the field The special emphasis of the meeting was on mathematical biology and accordingly about half of the articles are in the related areas of mathematical ecology and mathematical medicine

Global Dynamical Properties of Lotka-Volterra Systems Y. Takeuchi, 1996 Mathematical ecology is a subject which recently attracts attentions of many mathematicians and biologists One of the most important and fundamental mathematical models in ecology is of Lotka Volterra type This book gives global dynamical properties of L V systems The properties

analyzed are global stability of the equilibria persistence or permanence of the systems which ensures the survival of all the biological species composed of the systems for the long term and the existence of periodic or chaotic solutions The special subject of this book is to consider the effects of the systems structure diffusion of the biological species and time delay on the global dynamical properties of the systems

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