



COMPUTATIONAL BIOLOGY

Computational Biology Of The Heart

J Dewey



Computational Biology Of The Heart:

Computational Biology of the Heart Alexander V. Panfilov, Arun V. Holden, 1997-03-28 Modelling the genesis and propagation of electrical activity in the heart in quantitative terms is one of the most important recent applications of mathematical modelling in biology The main research direction and the most important for biological and medical applications is the development of realistic models of electrical activity in cardiac tissue and the whole mammalian heart Recent progress in nonlinear dynamics advances in computer technology and experiments on cardiac tissue have made feasible the construction of such models Computational Biology of the Heart is the first book to provide a comprehensive survey of recent research together with a systematic overview of the subject The contributions all written by experts in the different areas of the subject cover all main aspects of whole heart modelling from excitation in single cells to two and three dimensional models of cardiac tissue and the whole heart Various computational models and techniques are described and then applied to reconstruct and visualise modelled activity in both normal and pathological heart tissues The models are nonlinear and use techniques of ordinary differential equations partial differential equations and eikonal equations The book also provides a review of modelling cardiac contraction mapping electrical activity from electrocardiograms and recent experimental observations of wave propagation in the whole heart Graduate students and researchers in such areas as applied mathematical biology clinical physiology and cardiology will find this book to be an invaluable resource for their work

Computational Biology of the Heart Andrew McCulloch, 1998 **Computational Biology of the Heart**, 1998

High-performance Computing for Computational Biology of the Heart Ross McFarlane, 2010 This thesis describes the development of Beatbox a simulation environment for computational biology of the heart Beatbox aims to provide an adaptable approachable simulation tool and an extensible framework with which High Performance Computing may be harnessed by researchers Beatbox is built upon the QUI software package which is studied in Chapter 2 The chapter discusses QUI s functionality and common patterns of use and describes its underlying software architecture in particular its extensibility through the addition of new software modules called devices The chapter summarises good practice for device developers in the Laws of Devices Chapter 3 discusses the parallel architecture of Beatbox and its implementation for distributed memory clusters The chapter discusses strategies for domain decomposition halo swapping and introduces an efficient method for exchange of data with diagonal neighbours called Magic Corners The development of Beatbox s parallel Input Output facilities is detailed and its impact on scaling performance discussed The chapter discusses the way in which parallelism can be hidden from the user even while permitting the runtime execution user defined functions The chapter goes on to show how QUI s extensibility can be continued in a parallel environment by providing implicit parallelism for devices and defining Laws of Parallel Devices to guide third party developers Beatbox s parallel performance is evaluated and discussed Chapter 4 describes the extension of Beatbox to simulate anatomically realistic tissue geometry Representation of

irregular geometries is described along with associated user controls A technique to compute no flux boundary conditions on irregular boundaries is introduced The Laws of Devices are further developed to include irregular geometries Finally parallel performance of anatomically realistic meshes is evaluated

Functional Imaging and Modeling of the Heart Toivo Katila, Isabelle E. Magnin, Patrick Clarysse, Johan Montagnat, Jukka Nenonen, 2003-06-30 This book constitutes the refereed proceedings of the First International Workshop on Functional Imaging and Modeling of the Heart FIMH 2001 held in Helsinki Finland in November 2001 The 17 revised full papers presented together with four invited papers were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on anatomical modeling motion and deformation functional imaging and towards electromechanical modeling

Introduction to Computational Cardiology Boris Ja. Kogan, 2009-12-09 Introduction to Computational Cardiology provides a comprehensive in depth treatment of the fundamental concepts and research challenges involved in the mathematical modeling and computer simulation of dynamical processes in the heart under normal and pathological conditions About this textbook Presents descriptions of models used in both biology and medicine for discovering the mechanisms of heart function and dysfunction on several physiological scales across different species Provides several examples throughout the textbook and exercises at the end which facilitate understanding of basic concepts and introduces for implementation treated problems to parallel supercomputers Introduction to Computational Cardiology serves as a secondary textbook or reference book for advanced level students in computer science electrical engineering biomedical engineering and cardiac electrophysiology It is also suitable for researchers employing mathematical modeling and computer simulations of biomedical problems

Heart Development and Disease, 2024-04-02 Heart Development and Disease Volume 156 in the Current Topics in Developmental Biology series highlights new advances in the field with this new volume presenting interesting chapters including Macrophages during heart valve development Computational models of cardiovascular biology Mechanisms of early sarcomere assembly Role of RNA binding proteins during heart development and disease Early heart development and morphogenesis PSC models for development and disease ECM or SHF development Role of metabolism during heart development Cellular ploidy in cardiac biology and Genetics of CHD in the human population Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Current Topics in Developmental Biology series Updated release includes the latest information on Heart Development Disease

Encyclopedia of Cell Biology, 2015-08-07 The Encyclopedia of Cell Biology Four Volume Set offers a broad overview of cell biology offering reputable foundational content for researchers and students across the biological and medical sciences This important work includes 285 articles from domain experts covering every aspect of cell biology with fully annotated figures abundant illustrations videos and references for further reading Each entry is built with a layered approach to the content providing basic information for those new to the area and more detailed material for the more experienced researcher With authored contributions by experts in the field

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Functional Imaging and Modeling of the Heart Nicholas Ayache,Hervé Delingette,Maxime Sermesant,2009-05-20 This book constitutes the refereed proceedings of the 5th International Conference on Functional Imaging and Modeling of the Heart FIMH 2009 held in Nice France in June 2009 The 54 revised full papers presented were carefully reviewed and selected from numerous submissions The contributions cover topics such as cardiac imaging and electrophysiology cardiac architecture imaging and analysis cardiac imaging cardiac electrophysiology cardiac motion estimation cardiac mechanics cardiac image analysis cardiac biophysical simulation cardiac research platforms and cardiac anatomical and functional imaging

'In Silico' Simulation of Biological Processes Gregory R. Bock,Jamie A. Goode,2002 Over recent decades vast amounts of biological data have been accumulated However it is becoming increasingly difficult to apply traditional theoretical methods to the formulation of coherent pictures of cell and organ function because it is no longer possible for a human theorist to integrate all of the available information Instead computer technologies must now be used to perform this integration This book brings together contributions from many different fields to summarize the current status of computer assisted modelling of biological processes The initial chapters deal with fundamental developments in hardware software and mathematics that underlie current approaches to biological modelling Next different approaches to collating data on gene structure and function are presented These databases form a vital resource for any investigator trying to construct an integrated picture of particular biological systems Cell signalling systems form a particularly complicated aspect of all cellular function and are important both in the understanding of basic cellular processes and in selecting targets for drugs Recent approaches to integrating data on cell signalling into computer models are covered Further chapters build on these approaches to show how computerized models of intact cells can be developed Finally approaches to the computer modelling of whole organs such as the heart are presented The role of computer modelling in drug design is the subject of the final chapter and is also touched on throughout the discussions end body copy

Ionic Mechanisms of Rate-dependent Action Potential Dynamics in Canine Heart Fei Hua,2002 **Comprehensive Biophysics** ,2012-04-12 Biophysics is a rapidly evolving interdisciplinary science that applies theories and methods of the physical sciences to questions of biology Biophysics encompasses many disciplines including physics chemistry mathematics biology biochemistry medicine pharmacology physiology and neuroscience and it is essential that scientists working in these varied fields are able to

understand each other's research Comprehensive Biophysics Nine Volume Set will help bridge that communication gap Written by a team of researchers at the forefront of their respective fields under the guidance of Chief Editor Edward Egelman Comprehensive Biophysics Nine Volume Set provides definitive introductions to a broad array of topics uniting different areas of biophysics research from the physical techniques for studying macromolecular structure to protein folding muscle and molecular motors cell biophysics bioenergetics and more The result is this comprehensive scientific resource a valuable tool both for helping researchers come to grips quickly with material from related biophysics fields outside their areas of expertise and for reinforcing their existing knowledge Biophysical research today encompasses many areas of biology These studies do not necessarily share a unique identifying factor This work unites the different areas of research and allows users regardless of their background to navigate through the most essential concepts with ease saving them time and vastly improving their understanding The field of biophysics counts several journals that are directly and indirectly concerned with the field There is no reference work that encompasses the entire field and unites the different areas of research through deep foundational reviews Comprehensive Biophysics fills this vacuum being a definitive work on biophysics It will help users apply context to the diverse journal literature offering and aid them in identifying areas for further research Chief Editor Edward Egelman E I C Biophysical Journal has assembled an impressive world class team of Volume Editors and Contributing Authors Each chapter has been painstakingly reviewed and checked for consistent high quality The result is an authoritative overview which ties the literature together and provides the user with a reliable background information and citation resource

Functional Imaging and Modeling of the Heart, 2005 Physical Review, 1999-06 Publishes papers that report results of research in statistical physics plasmas fluids and related interdisciplinary topics There are sections on 1 methods of statistical physics 2 classical fluids 3 liquid crystals 4 diffusion limited aggregation and dendritic growth 5 biological physics 6 plasma physics 7 physics of beams 8 classical physics including nonlinear media and 9 computational physics

Mechanoelectric Feedback in Ventricular Myocardium Frederick Joseph Vetter, 1999 *Medical Image Computing and Computer-assisted Intervention*, 2001 *Cardiac Engineering* S. Sideman, Rafael Beyar, 2004 This volume concentrates on the analysis of the contributions of micro scale elements on the structure and function of the cardiovascular system through pursuit of the characteristics of the basic elements cells organelles genes molecules and ions as well as the control mechanisms affecting the various interactions and functions The general goals of this volume are to 1 foster interdisciplinary interaction among leading world scientists and clinical cardiologists in order to identify missing knowledge and catalyze new research ideas 2 relate basic microscale molecular and subcellular phenomena to global clinically manifested cardiac performance 3 apply conceptual modeling and quantitative analysis to better explore describe and understand cardiac physiology 4 interpret available clinical data and design new revealing experiments and 5 enhance international cooperation in the search for the secrets of life and their

implications in cardiac pathophysiology Insights Into Ion Channel Structure and Function in the Heart Joseph Cormier, 2005 Proceedings of the National Academy of Sciences of the United States of America National Academy of Sciences (U.S.), 2007 **Proceedings of the 20th Annual International Conference of the IEEE Engineering in Medicine and Biology Society** IEEE Engineering in Medicine and Biology Society. Annual Conference, 1998 These proceedings document the 20th Annual International Conference of the IEEE EMB Society held in Amsterdam in 1998 Covering the entire field of biomedical including the latest development in instrumentation neurotechnology rehabilitation engineering imaging signal Medical Imaging Clinical Engineering Medical Informatics Signal Processing Neuromuscular Systems Biomechanics Physiological Systems Modeling Instrumentation

The book delves into Computational Biology Of The Heart. Computational Biology Of The Heart is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Computational Biology Of The Heart, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
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 - Chapter 2: Essential Elements of Computational Biology Of The Heart
 - Chapter 3: Computational Biology Of The Heart in Everyday Life
 - Chapter 4: Computational Biology Of The Heart in Specific Contexts
 - Chapter 5: Conclusion
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 4. In chapter 3, this book will examine the practical applications of Computational Biology Of The Heart in daily life. This chapter will showcase real-world examples of how Computational Biology Of The Heart can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Computational Biology Of The Heart in specific contexts. This chapter will explore how Computational Biology Of The Heart is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Computational Biology Of The Heart. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Computational Biology Of The Heart.

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