



COMPUTATIONAL BIOLOGY

Computational Biology Of The Heart

Michael Hoelscher



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

Systems Biology Approaches to Understanding the Cause and Treatment of Heart, Lung, Blood, and Sleep Disorders Raimond L Winslow, Jennie Larkin, Pankaj Qasba, 2014-11-21

Development of powerful new high throughput technologies for probing the transcriptome proteome and metabolome is driving the rapid acquisition of information on the function of molecular systems The importance of these achievements cannot be understated they have transformed the nature of both biology and medicine Despite this dramatic progress one of the greatest challenges that continues to confront modern biology is to understand how behavior at the level of genome proteome and metabolome determines physiological function at the level of cell tissue and organ in both health and disease Because of the inherent complexity of biological systems the development analysis and validation of integrative computational models based directly on experimental data is necessary to achieve this understanding This approach known as systems biology integrates computational and experimental approaches through iterative development of mathematical models and experimental validation and testing The combination of these approaches allows for a mechanistic understanding of the function of complex biological systems in health and their dysfunction in disease The National Heart Lung and Blood Institute NHLBI has recognized the importance of the systems biology approach for understanding normal physiology and perturbations associated with heart lung blood and sleep diseases and disorders In 2006 NHLBI announced the Exploratory Program in Systems Biology followed in 2010 by the NHLBI Systems Biology Collaborations The goal of these programs is to support collaborative teams of investigators in using experimental and computational strategies to integrate the component parts of biological networks and pathways into computational models that are based firmly on and validated using experimental data These validated models are then applied to gain insights into the mechanisms of altered system function in disease to generate novel hypotheses regarding these mechanisms that can be tested experimentally and to then use the results of experiments to refine the models The purpose of this Research Topic is to present the range of innovative new approaches being developed by investigators working in areas of systems biology that couple experimental and modeling studies to understand the cause and possible treatment of heart lung blood and sleep diseases and disorders This Research Topic will be of great interest to the cardiovascular research community as well as to the general community of systems biologists

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

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

Functional Imaging and Modeling of the Heart, 2005

Braunwald's Heart Disease E-Book Douglas L. Mann, Douglas P. Zipes, Peter Libby, Robert O. Bonow, 2014-07-30 Ideal for cardiologists who need to keep abreast of rapidly changing scientific foundations clinical research results and evidence based medicine Braunwald's Heart Disease is your indispensable source for definitive state of the art answers on every aspect of contemporary cardiology helping you apply the most recent knowledge in personalized medicine imaging techniques pharmacology interventional cardiology electrophysiology and much more

Practice with confidence and overcome your toughest challenges with advice from the top minds in cardiology today who synthesize the entire state of current knowledge and summarize all of the most recent ACC AHA practice guidelines. Locate the answers you need fast thanks to a user friendly full color design with more than 1 200 color illustrations. Learn from leading international experts including 53 new authors. Explore brand new chapters such as Principles of Cardiovascular Genetics and Biomarkers Proteomics Metabolomics and Personalized Medicine. Access new and updated guidelines covering Diseases of the Aorta Peripheral Artery Diseases Diabetes and the Cardiovascular System Heart Failure and Valvular Heart Disease. Stay abreast of the latest diagnostic and imaging techniques and modalities such as three dimensional echocardiography speckle tracking tissue Doppler computed tomography and cardiac magnetic resonance imaging. Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability.

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.

Insights Into Ion Channel Structure and Function in the Heart Joseph Cormier, 2005

Mechanoelectric Feedback in Ventricular Myocardium Frederick Joseph Vetter, 1999

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

Medical Image Computing and Computer-assisted Intervention, 2001

Heart Failure: A Practical Approach to Treatment William T. Abraham, Henry Krum, 2007-08-01. The definitive one stop guide to treating and preventing heart failure. This practical reference provides all the expert guidance and up to the minute clinical perspectives you need to diagnose treat and manage patients with heart failure. A major focus of the book is integration of various management approaches to maximize patient benefit. Coverage begins with a brief introduction on the incidence and causes of heart failure then quickly moves into a more thorough clinical overview of symptom evaluation pharmacologic and non pharmacologic treatment methods hospitalization surgical treatments and more. Features Clear step by step coverage of prevention and all treatment modalities with evidence based recommendations. Full examination of the types of heart failure prevalence morbidity and associated co morbidities mortality risk factors etiologies cardiomyopathies and pathophysiology. Key perspectives on the use of ACE inhibitors beta blockers aldosterone antagonists IV vasoactive medications diuretics digitalis surgical procedures and devices and more. Need to know procedures for patient evaluation. Heart failure disease

management programs and pathways of care that can be applied in any practice setting Clinically relevant diagrams figures and algorithms

Cardiac Mechano-electric Feedback and Arrhythmias Peter Kohl, Frederick Sachs, Michael R. Franz, 2005 Kohl Cardio Mechano Electric Feedback Lab Oxford University documents the role of mechano electric feedback MEF in electrical and mechanical pathological remodeling of cardiac function Sections cover sub cellular mechanisms of cardiac MEF effects of MEF on cardiac cellular electrophysiology experimental manifestations of MEF in the heart cardiac MEF in normal physiology cardiac MEF as a pathogenic mechanism MEF as a mechanism involved in therapeutic interventions and the outlook for the future B w and color photos and medical images are included Annotation 2005 Book News Inc Portland OR booknews com

[The Journal of Experimental Biology](#) ,2007-05

Lecture series ,2003

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