

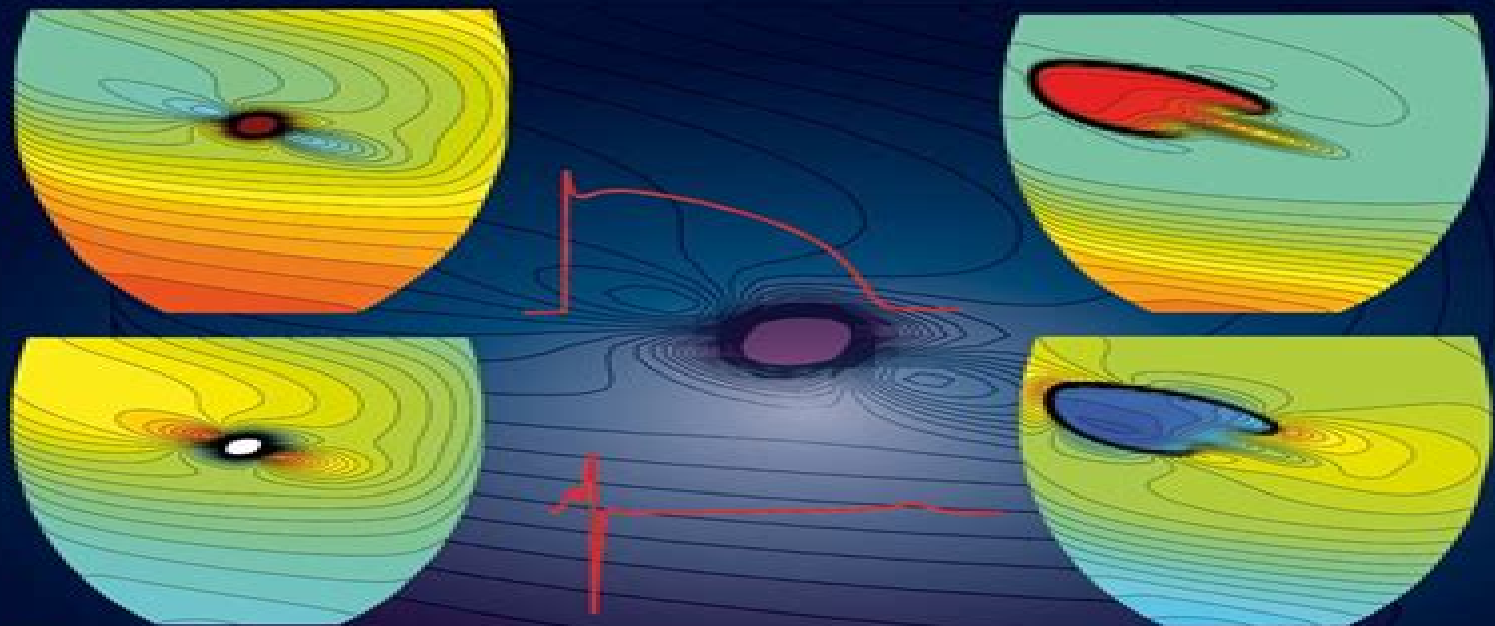
Volume 13

Mathematical Cardiac Electrophysiology

Piero Colli Franzone • Luca F. Pavarino • Simone Scacchi

MS&A

Modeling, Simulation & Applications



Mathematical Cardiac Electrophysiology Ms A

**Piero Colli Franzone, Luca Franco
Pavarino, Simone Scacchi**



Mathematical Cardiac Electrophysiology Ms A:

Mathematical Cardiac Electrophysiology Piero Colli Franzone, Luca Franco Pavarino, Simone Scacchi, 2014-10-30 This book covers the main mathematical and numerical models in computational electrocardiology ranging from microscopic membrane models of cardiac ionic channels to macroscopic bidomain monodomain eikonal models and cardiac source representations These advanced multiscale and nonlinear models describe the cardiac bioelectrical activity from the cell level to the body surface and are employed in both the direct and inverse problems of electrocardiology The book also covers advanced numerical techniques needed to efficiently carry out large scale cardiac simulations including time and space discretizations decoupling and operator splitting techniques parallel finite element solvers These techniques are employed in 3D cardiac simulations illustrating the excitation mechanisms the anisotropic effects on excitation and repolarization wavefronts the morphology of electrograms in normal and pathological tissue and some reentry phenomena The overall aim of the book is to present rigorously the mathematical and numerical foundations of computational electrocardiology illustrating the current research developments in this fast growing field lying at the intersection of mathematical physiology bioengineering and computational biomedicine This book is addressed to graduate student and researchers in the field of applied mathematics scientific computing bioengineering electrophysiology and cardiology Computational Methods in

Cardiac Electrophysiology Matthijs Cluitmans, Richard David Walton, Gernot Plank, 2023-07-06 **Applications** Peter Benner, et al., 2020-12-07 An increasing complexity of models used to predict real world systems leads to the need for algorithms to replace complex models with far simpler ones while preserving the accuracy of the predictions This three volume handbook covers methods as well as applications This third volume focuses on applications in engineering biomedical engineering computational physics and computer science **Inverse Problems on Large Scales** Bochra Mejri, Ronny Ramlau, Otmar Scherzer, 2024-12-30 This book presents new contributions and substantial advancements in the field of inverse imaging problems Several chapters are driven by novel applications which leads to novel mathematical formulations The book contains mathematical and modeling techniques studying inverse and ill posed problems with theoretical numerical and practical aspects arising in science and engineering Optimal Control of Partial Differential Equations Andrea

Manzoni, Alfio Quarteroni, Sandro Salsa, 2022-01-01 This is a book on optimal control problems OCPs for partial differential equations PDEs that evolved from a series of courses taught by the authors in the last few years at Politecnico di Milano both at the undergraduate and graduate levels The book covers the whole range spanning from the setup and the rigorous theoretical analysis of OCPs the derivation of the system of optimality conditions the proposition of suitable numerical methods their formulation their analysis including their application to a broad set of problems of practical relevance The first introductory chapter addresses a handful of representative OCPs and presents an overview of the associated mathematical issues The rest of the book is organized into three parts part I provides preliminary concepts of OCPs for algebraic and

dynamical systems part II addresses OCPs involving linear PDEs mostly elliptic and parabolic type and quadratic cost functions part III deals with more general classes of OCPs that stand behind the advanced applications mentioned above Starting from simple problems that allow a hands on treatment the reader is progressively led to a general framework suitable to face a broader class of problems Moreover the inclusion of many pseudocodes allows the reader to easily implement the algorithms illustrated throughout the text The three parts of the book are suitable to readers with variable mathematical backgrounds from advanced undergraduate to Ph D levels and beyond We believe that applied mathematicians computational scientists and engineers may find this book useful for a constructive approach toward the solution of OCPs in the context of complex applications

Cardiac Electrophysiology: From Cell to Bedside E-Book Douglas P. Zipes, Jose Jalife, William Gregory Stevenson, 2017-05-13 Rapid advancements in cardiac electrophysiology require today's health care scientists and practitioners to stay up to date with new information both at the bench and at the bedside The fully revised 7th Edition of Cardiac Electrophysiology From Cell to Bedside by Drs Douglas Zipes Jose Jalife and William Stevenson provides the comprehensive multidisciplinary coverage you need including the underlying basic science and the latest clinical advances in the field An attractive full color design features color photos tables flow charts ECGs and more All chapters have been significantly revised and updated by global leaders in the field including 19 new chapters covering both basic and clinical topics New topics include advances in basic science as well as recent clinical technology such as leadless pacemakers catheter ablation as a new class I recommendation for atrial fibrillation after failed medical therapy current cardiac drugs and techniques and a new video library covering topics that range from basic mapping for the researcher to clinical use implantations Each chapter is packed with the latest information necessary for optimal basic research as well as patient care and additional figures tables and videos are readily available online New editor William G Stevenson highly regarded in the EP community brings a fresh perspective to this award winning text

Sex and Cardiac Electrophysiology Marek Malik, 2020-07-11 Sex and Cardiac Electrophysiology Differences in Cardiac Electrical Disorders Between Men and Women is a comprehensive investigation into all aspects of sex differences in cardiac electrophysiology As there are substantial differences between female and male patients in physiology pathology triggering factors disease progression clinical approaches and treatment outcome this book provides a comprehensive examination In cardiology the differences between women and men are more recognized hence this title summarizes these important differences providing the essential information needed for clinical specialists and researchers involved in the design and implementation of clinical studies Explores topics ranging from the physiologic differences between women and men to the differences in clinical handling of arrhythmic disorders between female and male patients Provides sex differences in cardiac electrophysiology in separate chapters Covers the sex differences of cardiac electrical disorders providing insights beyond cardiac metabolic syndrome hypertension atherogenesis and heart failure

Zipes and Jalife's Cardiac Electrophysiology: From Cell to Bedside, E-Book

Jose Jalife, William Gregory Stevenson, 2021-12-16 Fully updated from cover to cover Zipes and Jalife's Cardiac Electrophysiology From Cell to Bedside 8th Edition provides the comprehensive multidisciplinary coverage you need from new knowledge in basic science to the latest clinical advances in the field Drs Jos Jalife and William Gregory Stevenson lead a team of global experts who provide cutting edge content and step by step instructions for all aspects of cardiac electrophysiology Packs each chapter with the latest information necessary for optimal basic research as well as patient care Covers new technologies such as CRISPR protein research improved cardiac imaging optical mapping and wearable devices Contains significant updates in the areas of molecular biology and genetics iPSCs induced pluripotent stem cells embryonic stem cells precision medicine antiarrhythmic drug therapy cardiac mapping with advanced techniques and ablation technologies including stereotactic radioablation Includes 47 new chapters covering both basic science and clinical topics Discusses extensive recent progress in the understanding diagnosis and management of arrhythmias including new clinical insights on atrial fibrillation and stroke prevention new advances in the understanding of ventricular arrhythmias in genetic disease and advances in implantable devices and infection management Features 1 600 high quality photographs anatomic and radiographic images electrocardiograms tables algorithms and more with additional figures tables and videos online Recipient of a 2018 Highly Commended award from the British Medical Association Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

Reduced Order Models for the Biomechanics of Living Organs Francisco Chinesta, Elias Cueto, Yohan Payan, Jacques Ohayon, 2023-05-25 Reduced Order Models for the Biomechanics of Living Organs a new volume in the Biomechanics of Living Organisms series provides a comprehensive overview of the state of the art in biomechanical computations using reduced order models along with a deeper understanding of the associated reduction algorithms that will face students researchers clinicians and industrial partners in the future The book gathers perspectives from key opinion scientists who describe and detail their approaches methodologies and findings It is the first to synthesize complementary advances in Biomechanical modelling of living organs using reduced order techniques in the design of medical devices and clinical interventions including surgical procedures This book provides an opportunity for students researchers clinicians and engineers to study the main topics related to biomechanics and reduced models in a single reference with this volume summarizing all biomechanical aspects of each living organ in one comprehensive reference Introduces the fundamental aspects of reduced order models Presents the main computational studies in the field of solid and fluid biomechanical modeling of living organs Explores the use of reduced order models in the fields of biomechanical electrophysiology tissue growth and prosthetic designs

Methods and applications in integrative physiology Ovidiu Constantin Baltatu, Chao Chen, Guido Caluori, 2023-01-04 This Research Topic is part of the Methods and Applications in Physiology series Other titles in this series are Methods and Applications in Aquatic Physiology Methods and Applications in Clinical and Translational

Physiology Methods and Applications in Computational Physiology and Medicine Methods and Applications in Environmental Aviation and Space Physiology Methods and Applications in Exercise Physiology Methods and Applications in Fractal Physiology Methods and Applications in Invertebrate Physiology Methods and Applications in Metabolic Physiology Methods and Applications in Physio logging Methods and Applications in Striated Muscle Physiology Methods and Applications in Respiratory Physiology Methods and Applications in Vascular Physiology New Methods for Red Blood Cell Research and Diagnosis Volume II Combining Computational and Experimental Approaches to Characterize Ion Channels and Transporters

Imagine Math 6 Michele Emmer, Marco Abate, 2018-11-06 Imagine mathematics imagine with the help of mathematics imagine new worlds new geometries new forms Imagine building mathematical models that make it possible to manage our world better imagine combining music art poetry literature architecture and cinema with mathematics Imagine the unpredictable and sometimes counterintuitive applications of mathematics in all areas of human endeavour Imagination and mathematics imagination and culture culture and mathematics This sixth volume in the series begins with a homage to the architect Zaha Hadid who died on March 31st 2016 a few weeks before the opening of a large exhibition of her works in Palazzo Franchetti in Venice where all the Mathematics and Culture conferences have taken place in the last years A large section of the book is dedicated to literature narrative and mathematics including a contribution from Simon Singh It discusses the role of media in mathematics including museums of science journals and movies Mathematics and applications including blood circulation and preventing crimes using earthquakes is also addressed while a section on mathematics and art examines the role of math in design A large selection presents photos of mathematicians and mathematical objects by Vincent Moncorge Discussing all topics in a way that is rigorous but captivating detailed but full of evocations it offers an all embracing look at the world of mathematics and culture

Cardiovascular Computing—Methodologies and Clinical Applications Spyretta Golemati, Konstantina S. Nikita, 2019-02-12 This book provides a comprehensive guide to the state of the art in cardiovascular computing and highlights novel directions and challenges in this constantly evolving multidisciplinary field The topics covered span a wide range of methods and clinical applications of cardiovascular computing including advanced technologies for the acquisition and analysis of signals and images cardiovascular informatics and mathematical and computational modeling

Functional Imaging and Modeling of the Heart Nicholas Ayache, Hervé Delingette, 2009-05-25 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

Frontiers in Noninvasive Cardiac Mapping, An Issue of Cardiac Electrophysiology

Clinics Ashok Shah, 2015-04-07 This issue of Cardiac Electrophysiology Clinics examines Frontiers in Non invasive Cardiac Mapping Topics include imaging of heart rhythm disorders experimental validation and modeling of validation challenges and future directions of inverse problems phase mapping of cardiac fibrillation frequency domain analysis analysis of diagnostic 12 lead electrocardiography and 3D non invasive mapping and many more **Simulating Normal and Arrhythmic Dynamics: From Sub-Cellular to Tissue and Organ Level** Hans Dierckx, Flavio H. Fenton, Simonetta Filippi, Alain Pumir, S. Sridhar, 2019-10-04 *The Mathematics of Mechanobiology* Antonio DeSimone, Benoît Perthame, Alfio Quarteroni, Lev Truskinovsky, 2020-06-29 This book presents the state of the art in mathematical research on modelling the mechanics of biological systems a science at the intersection between biology mechanics and mathematics known as mechanobiology The book gathers comprehensive surveys of the most significant areas of mechanobiology cell motility and locomotion by shape control Antonio DeSimone models of cell motion and tissue growth Beno t Perthame numerical simulation of cardiac electromechanics Alfio Quarteroni and power stroke driven muscle contraction Lev Truskinovsky Each section is self contained in terms of the biomechanical background and the content is accessible to all readers with a basic understanding of differential equations and numerical analysis The book disentangles the phenomenological complexity of the biomechanical problems while at the same time addressing the mathematical complexity with invaluable clarity The book is intended for a wide audience in particular graduate students and applied mathematicians interested in entering this fascinating field **Atrial Fibrillation: Technology for Diagnosis, Monitoring, and Treatment** Jose F. Rodriguez Matas, Omer Berenfeld, Axel Loewe, Valentina Corino, Juan Pablo Martínez, 2022-03-15 Cardiac Bioelectric Therapy Igor R. Efimov, Fu Siong Ng, Jacob I. Laughner, 2021-01-28 The updated and expanded second edition of this book presents a contemporary review of the basic science engineering technology and clinical practice of cardiac bioelectric therapy It covers the rapidly expanding technological development of pacemakers and defibrillators as well as ablative therapy electrophysiological mapping and other clinical diagnostic and therapeutic breakthroughs The book highlights many different aspects of bioelectric therapy including history biophysical and computational concepts basic electrophysiology studies engineering technology advances and clinical perspectives In this revised edition leading clinical and basic electrophysiologists share their perspectives on the science behind the mechanisms of cardiac arrhythmias breakthrough technologies for scientific and clinical investigation of heart rhythm disorders theoretical conceptualization of arrhythmias and treatment using state of the art computational approaches and novel approaches to treatment of cardiac arrhythmias using implantable devices percutaneous ablation therapies machine learning and other approaches The Second Edition of Cardiac Bioelectric Therapy is an essential resource for physicians residents fellows and graduate students in clinical cardiac electrophysiology cardiology and cardiac surgery as well as researchers professionals and students in biomedical mechanical and electrical engineering *Statistical Atlases and Computational Models of the Heart* Oscar Camara, Mihaela Pop, Kawal

Rhode,Maxime Sermesant,Nic Smith,Alistair Young,2010-09-10 This book constitutes the refereed proceedings of the First Joint International Workshop on Statistical Atlases and Computational Models of the Heart and Cardiac Electrophysiological Simulation Challenge STACOM CESC 2010 held in conjunction with MICCAI 2010 in Beijing China in September 2010 The 27 revised full papers presented together with 3 keynote presentations were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on methods and infrastructure for atlas construction structure and flow mechanics and motion electrophysiology and electrical activation and computational electrophysiological simulation challenge *Personalized Multi-Scale Modeling of the Atria: Heterogeneities, Fiber Architecture, Hemodialysis and Ablation Therapy* Martin Wolfgang Krüger,2014-05-22 This book targets three fields of computational multi scale cardiac modeling First advanced models of the cellular atrial electrophysiology and fiber orientation are introduced Second novel methods to create patient specific models of the atria are described Third applications of personalized models in basic research and clinical practice are presented The results mark an important step towards the patient specific model based atrial fibrillation diagnosis understanding and treatment

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