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Complex Structure and Dynamics of the Heart



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Jian Yang,Fang Fang,Changyin Sun



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Information-based methods for neuroimaging: analyzing structure, function and dynamics Jesus M. Cortés, Daniele Marinazzo, Miguel Angel Muñoz, 2015-05-07 The aim of this Research Topic is to discuss the state of the art on the use of Information based methods in the analysis of neuroimaging data Information based methods typically built as extensions of the Shannon Entropy are at the basis of model free approaches which being based on probability distributions rather than on specific expectations can account for all possible non linearities present in the data in a model independent fashion Mutual Information like methods can also be applied on interacting dynamical variables described by time series thus addressing the uncertainty reduction or information in one variable by conditioning on another set of variables In the last years different Information based methods have been shown to be flexible and powerful tools to analyze neuroimaging data with a wide range of different methodologies including formulations based on bivariate vs multivariate representations frequency vs time domains etc Apart from methodological issues the information bit as a common unit represents a convenient way to open the road for comparison and integration between different measurements of neuroimaging data in three complementary contexts Structural Connectivity Dynamical Functional and Effective Connectivity and Modelling of brain activity Applications are ubiquitous starting from resting state in healthy subjects to modulations of consciousness and other aspects of pathophysiology Mutual Information based methods have provided new insights about common principles in brain organization showing the existence of an active default network when the brain is at rest It is not clear however how this default network is generated the different modules are intra interacting or disappearing in the presence of stimulation Some of these open questions at the functional level might find their mechanisms on their structural correlates A key question is the link between structure and function and the use of structural priors for the understanding of the functional connectivity measures As effective connectivity is concerned recently a common framework has been proposed for Transfer Entropy and Granger Causality a well established methodology originally based on autoregressive models This framework can open the way to new theories and applications This Research Topic brings together contributions from researchers from different backgrounds which are either developing new approaches or applying existing methodologies to new data and we hope it will set the basis for discussing the development and validation of new Information based methodologies for the understanding of brain structure function and dynamics

Cardiac Mechano-Electric Coupling and Arrhythmias Peter Kohl, Frederick Sachs, Michael R. Franz, 2011-08-25 Ranging from stretch activated ion channels to mechanically induced arrhythmias and mechanical interventions for heart rhythm correction this new edition offers a thoroughly reviewed compendium of chapters written by the top experts in the world on the mechanism and consequences of cardiac mechano electrical coupling

Complex Structure and Dynamics of the Heart Philip Bittihn, 2014-12-27 This award winning thesis investigates the mechanisms underlying cardiac arrhythmia development and termination from an entirely new perspective By viewing the

heart as a complex system the author uses theoretical tools from nonlinear dynamics combined with numerical simulations and experiments to achieve insights into the relationship between its structure and dynamics thereby paving the way towards innovative low energy defibrillation strategies The work tackles among other things the effect of substrate heterogeneity on the spatial temporal dynamics of cardiac arrhythmias and ways in which weak pulsed electric fields can be used to control these dynamics in heterogeneous cardiac tissue The long term vision of this research is to replace the current strategy of applying painful and sometimes tissue damaging electric shock currently the only reliable way to terminate life threatening fibrillation by a more subtle but equally effective intervention The book maps out a number of promising research directions for biophysicists and medical researchers working on the origins and treatment of cardiac arrhythmias

A Multiscale In Silico Study to Characterize the Atrial Electrical Activity of Patients With Atrial Fibrillation : A Translational Study to Guide Ablation Therapy Sánchez Arciniegas, Jorge Patricio,2022-05-30 The atrial substrate undergoes electrical and structural remodeling during atrial fibrillation Detailed multiscale models were used to study the effect of structural remodeling induced at the cellular and tissue levels Simulated electrograms were used to train a machine learning algorithm to characterize the substrate Also wave propagation direction was tracked from unannotated electrograms In conclusion in silico experiments provide insight into electrograms information of the substrate

Intelligent Science and Intelligent Data Engineering Jian Yang,Fang Fang,Changyin Sun,2013-02-11 This book constitutes the proceedings of the third Sino foreign interchange Workshop on Intelligence Science and Intelligent Data Engineering IScIDE 2012 held in Nanjing China in October 2012 The 105 papers presented were carefully peer reviewed and selected from 429 submissions Topics covered include pattern recognition computer vision and image processing machine learning and computational intelligence knowledge discovery data mining and web mining graphics and computer visualization and multimedia processing and applications

Cardiac Surgery Shahzad G. Raja,2020-02-11 This textbook provides a succinct overview of cardiac surgery with key concepts being emphasized throughout An abundance of illustrations intra operative photographs tables as well as information boxes aids the reader to visualise grasp and retain difficult concepts The inclusion of evidence based approaches to the management of a range of cardiac surgical conditions equips the reader with an understanding of how to overcome a variety of potentially tough clinical challenges Concise Cardiac Surgery A Complete Guide comprehensively covers a range of techniques used in cardiac surgery It is therefore an ideal resource for the trainee and practising cardiac surgeon seeking a practically focused text detailing how to apply the latest techniques and evidence based approaches in their day to day practice

3D Ultrasound of Fetal Heart Edward Araujo Júnior,Nathalie Jeanne Magioli Bravo-Valenzuela,Gabriele Tonni,Giuseppe Rizzo,2025-08-16 This book features the most recent advances in 3D ultrasound of the fetal heart with an emphasis on practical applications including both technical and clinical aspects It presents a detailed description of how to obtain standard views using 3D ultrasound and discusses their accuracy in diagnosis of congenital heart diseases It also

covers such topics as the use of Color Doppler Inversion Mode B Flow Glass Body and Tomographic Ultrasound Imaging for 3D ultrasound scans as well as STIC with HDlive and HDlive silhouette and their application especially in conotruncal anomalies and septal defects The use of 3D ultrasound in venous connection anomalies and right sided heart anomalies are also demonstrated in detail An entire chapter is devoted to applications of 3D ultrasound during the first trimester including assessment of fetal heart function and functional anomalies New applications and perspectives are also addressed With contributions from leading experts in the field 3D Ultrasound of the Fetal Heart is a must read for medical professionals researchers and students seeking to master the intricacies of three dimensional ultrasound for fetal heart assessment It bridges the gap between foundational knowledge and cutting edge applications ensuring a comprehensive and up to date understanding of this transformative imaging technique

Proceedings ,1950 *Complex Systems Science in Biomedicine* Thomas Deisboeck,J. Yasha Kresh,2007-06-13 *Complex Systems Science in Biomedicine* Thomas S Deisboeck and J Yasha Kresh *Complex Systems Science in Biomedicine* covers the emerging field of systems science involving the application of physics mathematics engineering and computational methods and techniques to the study of biomedicine including nonlinear dynamics at the molecular cellular multi cellular tissue and organismic level With all chapters helmed by leading scientists in the field *Complex Systems Science in Biomedicine* s goal is to offer its audience a timely compendium of the ongoing research directed to the understanding of biological processes as whole systems instead of as isolated component parts In Parts I II *Complex Systems Science in Biomedicine* provides a general systems thinking perspective and presents some of the fundamental theoretical underpinnings of this rapidly emerging field Part III then follows with a multi scaled approach spanning from the molecular to macroscopic level exemplified by studying such diverse areas as molecular networks and developmental processes the immune and nervous systems the heart cancer and multi organ failure The volume concludes with Part IV that addresses methods and techniques driven in design and development by this new understanding of biomedical science Key Topics Include Historic Perspectives of General Systems Thinking Fundamental Methods and Techniques for Studying Complex Dynamical Systems Applications from Molecular Networks to Disease Processes Enabling Technologies for Exploration of Systems in the Life Sciences *Complex Systems Science in Biomedicine* is essential reading for experimental theoretical and interdisciplinary scientists working in the biomedical research field interested in a comprehensive overview of this rapidly emerging field About the Editors Thomas S Deisboeck is currently Assistant Professor of Radiology at Massachusetts General Hospital and Harvard Medical School in Boston An expert in interdisciplinary cancer modeling Dr Deisboeck is Director of the Complex Biosystems Modeling Laboratory which is part of the Harvard MIT Martinos Center for Biomedical Imaging J Yasha Kresh is currently Professor of Cardiothoracic Surgery and Research Director Professor of Medicine and Director of Cardiovascular Biophysics at the Drexel University College of Medicine An expert in dynamical systems he holds appointments in the School of Biomedical Engineering and Health

Systems Dept of Mechanical Engineering and Molecular Pathobiology Program Prof Kresh is Fellow of the American College of Cardiology American Heart Association Biomedical Engineering Society American Institute for Medical and Biological Engineering 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

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