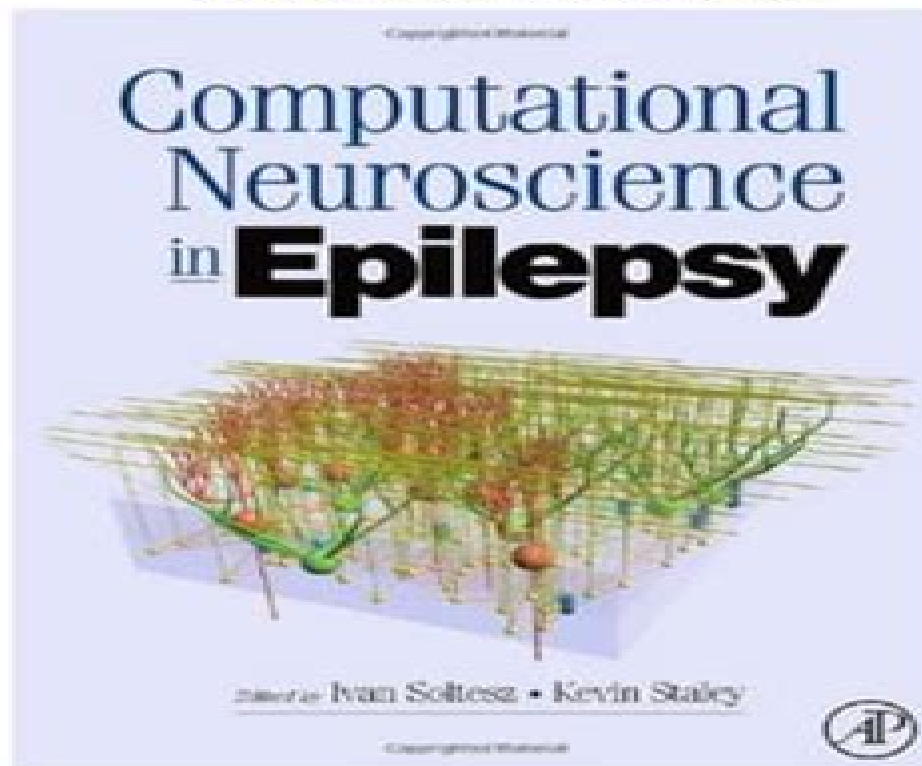


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Computational Neuroscience Wanpracha Chaovalitwongse, Panos M. Pardalos, Petros Xanthopoulos, 2010-07-03 This book represents a collection of recent advances in computational studies in neuroscience research that practically applies to a collaborative and integrative environment in engineering and medical domains This work has been designed to address the explosion of interest by academic researchers and practitioners in highly effective coordination between computational models and tools and quantitative investigation of neuroscientific data To bridge the vital gap between science and medicine this book brings together diverse research areas ranging from medical signal processing image analysis and data mining to neural network modeling regulation of gene expression and brain dynamics We hope that this work will also be of value to investigators and practitioners in academic institutions who become involved in computational modeling as an aid in translating information in neuroscientific data to their colleagues in medical main This volume will be very appealing to graduate and advanced undergraduate students researchers and practitioners across a wide range of industries e g pharmaceutical chemical biological sciences who require a detailed overview of the practical aspects of computational modeling in real life neuroscience problems For this reason our audience is assumed to be very diverse and heterogenous including vii viii Preface researchers from engineering computer science statistics and mathematics mains as well as medical and biological scientists physicians working in scienti c research to understand how basic science can be linked with biological systems

Jasper's Basic Mechanisms of the Epilepsies Jeffrey Noebels, 2012-06-29 Jasper s Basic Mechanisms Fourth Edition is the newest most ambitious and now clinically relevant publishing project to build on the four decade legacy of the Jasper s series In keeping with the original goal of searching for a better understanding of the epilepsies and rational methods of prevention and treatment the book represents an encyclopedic compendium neurobiological mechanisms of seizures epileptogenesis epilepsy genetics and comorbid conditions Of practical importance to the clinician and new to this edition are disease mechanisms of genetic epilepsies and therapeutic approaches ranging from novel antiepileptic drug targets to cell and gene therapies

Biophysically based Computational Models of Astrocyte ~ Neuron Coupling and their Functional Significance John Wade, Scott Kelso, Vincenzo Crunelli, Liam J. McDaid, Jim Harkin, 2014-03-21 Neuroscientists are increasingly becoming more interested in modelling brain functions where capturing the biophysical mechanisms underpinning these functions requires plausible models at the level of neuron cells However cell level models are still very much in the embryo stage and therefore there is a need to advance the level of biological realism at the level of neurons synapses Recent publications have highlighted that astrocytes continually exchange information with multiple synapses if we are to fully appreciate this dynamic and coordinated interplay between these cells then more research on bidirectional signalling between astrocytes and neurons is required A better understanding of astrocyte neuron cell coupling would provide the building block for studying the regulatory capability of astrocytes networks on a large scale For example it

is believed that local and global signalling via astrocytes underpins brain functions like synchrony learning memory and self repair This Research Topic aims to report on current research work which focuses on understanding and modelling the interaction between astrocytes and neurons at the cellular level Bottom up and at network level Top down Understanding astrocytic regulation of neural activity is crucial if we are to capture how information is represented and processed across large neuronal ensembles in humans

Models of Seizures and Epilepsy Asla Pitkänen,Paul Buckmaster DVM PhD,Aristea S Galanopoulou,Solomon L. Moshé,2017-06-14 Models of Seizures and Epilepsy Second Edition is a valuable practical reference for investigators who are searching for the most appropriate laboratory models to address key questions in the field The book also provides an important background for physicians fellows and students offering insight into the potential for advances in epilepsy research as well as R D drug development Contents include the current spectrum of models available to model different epilepsy syndromes epilepsy in transgenic animals comorbidities in models of epilepsy and novel technologies to study seizures and epilepsies in animals Provides a comprehensive reference detailing animal models of epilepsy and seizure Offers insights on the use of novel technologies that can be applied in experimental epilepsy research Edited by leading experts in the field that provide not only technical reviews of these models but also conceptual critiques Comments on the strengths and limitations of various models including their relationship to clinical phenomenology and their value in developing better understanding and treatments

Computational Neurology and Psychiatry Péter Érdi,Basabhatta Sen Bhattacharya,Amy L. Cochran,2017-01-25 This book presents the latest research in computational methods for modeling and simulating brain disorders In particular it shows how mathematical models can be used to study the relationship between a given disorder and the specific brain structure associated with that disorder It also describes the emerging field of computational psychiatry including the study of pathological behavior due to impaired functional connectivity pathophysiological activity and or aberrant decision making Further it discusses the data analysis techniques that will be required to analyze the increasing amount of data being generated about the brain Lastly the book offers some tips on the application of computational models in the field of quantitative systems pharmacology Mainly written for computational scientists eager to discover new application fields for their model this book also benefits neurologists and psychiatrists wanting to learn about new methods

Oxford Textbook of Epilepsy and Epileptic Seizures Samden Lhatoo,2012-12-20 Part of the Oxford Textbooks in Clinical Neurology OTCN series this volume covers the scientific basis clinical diagnosis and treatment of epilepsy and epileptic seizures and is complemented by an online edition

Computational Neuroimage Analysis Tools for Brain (Diseases) Biomarkers Diana M. Sima,Meritxell Bach Cuadra,Tim B. Dyrby,Koen Van Leemput,2022-03-15

Nonlinear Dynamics in Computational Neuroscience Fernando Corinto,Alessandro Torcini,2018-06-19 This book provides an essential overview of computational neuroscience It addresses a broad range of aspects from physiology to nonlinear dynamical approaches to understanding neural computation and from the simulation of

brain circuits to the development of engineering devices and platforms for neuromorphic computation Written by leading experts in such diverse fields as neuroscience physics psychology neural engineering cognitive science and applied mathematics the book reflects the remarkable advances that have been made in the field of computational neuroscience an emerging discipline devoted to the study of brain functions in terms of the information processing properties of the structures forming the nervous system The contents build on the workshop Nonlinear Dynamics in Computational Neuroscience from Physics and Biology to ICT which was held in Torino Italy in September 2015

Seizure Prediction in Epilepsy Björn Schelter,Jens Timmer,Andreas Schulze-Bonhage,2008-11-21 Comprising some 30 contributions experts from around the world present and discuss recent advances related to seizure prediction in epilepsy The book covers an extraordinarily broad spectrum starting from modeling epilepsy in single cells or networks of a few cells to precisely tailored seizure prediction techniques as applied to human data This unique overview of our current level of knowledge and future perspectives provides theoreticians as well as practitioners newcomers and experts with an up to date survey of developments in this important field of research

Computational Immunology Shyamasree Ghosh,2020-01-31 Computational Immunology Applications focuses on different mathematical models statistical tools techniques and computational modelling that helps in understanding complex phenomena of the immune system and its biological functions The book also focuses on the latest developments in computational biology in designing of drugs targets biomarkers for early detection and prognosis of a disease It highlights the applications of computational methods in deciphering the complex processes of the immune system and its role in health and disease This book discusses the most essential topics including Next generation sequencing NGS and computational immunology Computational modelling and biology of diseases Drug designing Computation and identification of biomarkers Application in organ transplantation Application in disease detection and therapy Computational methods and applications in understanding of the invertebrate immune system S Ghosh is MSc PhD PGDHE PGDBI is PhD from IICB CSIR Kolkata awarded the prestigious National Scholarship from the Government of India She has worked and published extensively in glycobiology sialic acids immunology stem cells and nanotechnology She has authored several publications that include books and encyclopedia chapters in reputed journals and books

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