

Epilepsy as a dynamic disease: Musings by a clinical computationalist

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Epilepsy As A Dynamic Disease

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Epilepsy As A Dynamic Disease:

Epilepsy as a Dynamic Disease John Milton, Peter Jung, 2013-04-17 A brain defibrillator may be closer than we think An epileptic seizure involves a paroxysmal change in the activity of millions of neurons Feedback control of seizures would require an implantable device that could predict seizure occurrence and then deliver a stimulus to abort it To examine the feasibility of building such a device this text brings together experts in epilepsy bio engineering and dynamical systems theory Topics include the development of epileptic systems seizure prediction neural synchronization wave phenomena in excitable media and the control of complex neural dynamics using brief electrical stimuli **Handbook of Brain**

Connectivity Viktor K. Jirsa, A.R. McIntosh, 2007-08-16 Our contemporary understanding of brain function is deeply rooted in the ideas of the nonlinear dynamics of distributed networks Cognition and motor coordination seem to arise from the interactions of local neuronal networks which themselves are connected in large scales across the entire brain The spatial architectures between various scales inevitably influence the dynamics of the brain and thereby its function But how can we integrate brain connectivity amongst these structural and functional domains Our Handbook provides an account of the current knowledge on the measurement analysis and theory of the anatomical and functional connectivity of the brain All contributors are leading experts in various fields concerning structural and functional brain connectivity In the first part of the Handbook the chapters focus on an introduction and discussion of the principles underlying connected neural systems The second part introduces the currently available non invasive technologies for measuring structural and functional connectivity in the brain Part three provides an overview of the analysis techniques currently available and highlights new developments Part four introduces the application and translation of the concepts of brain connectivity to behavior cognition and the clinical domain **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 **Dynamic Coordination in the Brain** Christoph Von Der Malsburg, William A. Phillips, Wolf Singer, 2010-07-09 An examination of how widely distributed and specialized activities of the brain are flexibly and effectively coordinated A fundamental shift is occurring in neuroscience and related disciplines In the past researchers focused on functional specialization of the brain discovering complex processing strategies based on convergence and divergence in slowly adapting anatomical architectures Yet for the brain to cope with ever changing and unpredictable circumstances it needs strategies with richer interactive short term dynamics Recent research has revealed

ways in which the brain effectively coordinates widely distributed and specialized activities to meet the needs of the moment This book explores these findings examining the functions mechanisms and manifestations of distributed dynamical coordination in the brain and mind across different species and levels of organization The book identifies three basic functions of dynamic coordination contextual disambiguation dynamic grouping and dynamic routing It considers the role of dynamic coordination in temporally structured activity and explores these issues at different levels from synaptic and local circuit mechanisms to macroscopic system dynamics emphasizing their importance for cognition behavior and psychopathology Contributors Evan Balaban Gyrgy Buzsáki Nicola S Clayton Maurizio Corbetta Robert Desimone Kamran Diba Shimon Edelman Andreas K Engel Yves Fregnac Pascal Fries Karl Friston Ann Graybiel Sten Grillner Uri Grodzinski John Dylan Haynes Laurent Itti Erich D Jarvis Jon H Kaas J A Scott Kelso Peter Knig Nancy J Kopell Ilona Kovács Andreas Kreiter Anders Lansner Gilles Laurent Jörg Lücke Mikael Lundqvist Angus MacDonald Kevan Martin Mayank Mehta Lucia Melloni Earl K Miller Bita Moghaddam Hannah Monyer Edvard I Moser May Britt Moser Danko Nikolic William A Phillips Gordon Pipa Constantin Rothkopf Terrence J Sejnowski Steven M Silverstein Wolf Singer Catherine Tallon Baudry Roger D Traub Jochen Triesch Peter Uhlhaas Christoph von der Malsburg Thomas Weisswange Miles Whittington Matthew Wilson

Neurobiology of Disease, 2011-09-06 Neurobiology of Disease is aimed at any basic scientist or clinician scientist teaching a course or conducting research on the basic science underlying the major neurological diseases It provides an excellent overview of cutting edge research on the fundamental disorders of the nervous system including physiological and molecular aspects of dysfunction The major categories of neurological disease are covered and the chapters provide specific information about particular diseases exemplifying each of these categories Sufficient clinical information is included to put into perspective the basic mechanisms discussed The book assembles a world class team of section editors and chapters written by acknowledged experts in their respective fields Provides cutting edge information about fundamental mechanisms underlying neurological diseases Ample supplied with tables illustrations and references Includes supporting clinical information putting the mechanisms of disease into perspective 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 *7th International Conference on the Development of Biomedical Engineering in Vietnam (BME7)* Vo Van Toi, Trung Quoc Le, Hoan Thanh Ngo, Thi-Hiep Nguyen, 2019-06-05 This volume presents the proceedings of the 7th International Conference on the Development of Biomedical Engineering in Vietnam which was held from June 27-29, 2018 in Ho Chi Minh City. The volume reflects the progress of Biomedical Engineering and discusses problems and solutions. It aims to identify new challenges and shaping future directions for research in biomedical engineering fields including medical instrumentation, bioinformatics, biomechanics, medical imaging, drug delivery, therapy, regenerative medicine, and entrepreneurship in medical devices.

Mathematics as a Laboratory Tool John Milton, Toru Ohira, 2021-08-11 The second edition of *Mathematics as a Laboratory Tool* reflects the growing impact that computational science is having on the career choices made by undergraduate science and engineering students. The focus is on dynamics and the effects of time delays and stochastic perturbations (noise) on the regulation provided by feedback control systems. The concepts are illustrated with applications to gene regulatory networks, motor control, neuroscience, and population biology. The presentation in the first edition has been extended to include discussions of neuronal excitability and bursting, multistability, microchaos, Bayesian inference, second-order delay differential equations, and the semi-discretization method for the numerical integration of delay differential equations. Every effort has been made to ensure that the material is accessible to those with a background in calculus. The text provides advanced mathematical concepts such as the Laplace and Fourier integral transforms in the form of Tools. Bayesian inference is introduced using a number of detective-type scenarios including the Monty Hall problem.

Self-Organized Biological Dynamics and Nonlinear Control Jan Walleczek, 2006-04-20 The growing impact of nonlinear science on biology and medicine is fundamentally changing our view of living organisms and disease processes. This book introduces the application to biomedicine of a broad range of interdisciplinary concepts from nonlinear dynamics such as self-organization, complexity, coherence, stochastic resonance, fractals, and chaos. It comprises 18 chapters written by leading figures in the field and covers experimental and theoretical research as well as the emerging technological possibilities such as nonlinear control techniques for treating pathological biodynamics including heart arrhythmias and epilepsy. This book will attract the interest of professionals and students from a wide range of disciplines including physicists, chemists, biologists, sensory physiologists, and medical researchers such as cardiologists, neurologists, and biomedical engineers.

Reading EEGs: A Practical Approach L. John Greenfield, James D. Geyer, Paul R. Carney, 2012-03-28 *Reading EEGs: A Practical Approach* focuses on pattern recognition and pattern comparison. The concepts of pattern recognition are developed in a logical fashion based on appearance rather than disease process. The book teaches waveform recognition so that the reader can generate a differential diagnosis based on that recognition. This book also incorporates a question and answer format that is effective for students at multiple levels of training. A unique feature of the book is that it follows a teaching methodology in which concepts are developed sequentially and logically.

Brain Diseases: Advances

in Research and Treatment: 2011 Edition ,2012-01-09 Brain Diseases Advances in Research and Treatment 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Brain Diseases The editors have built Brain Diseases Advances in Research and Treatment 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Brain Diseases in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Brain Diseases Advances in Research and Treatment 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Dynamic Functioning of Resting State Networks in Physiological and Pathological Conditions, volume II Roberto Esposito,Filippo

Cieri,Nicoletta Cera,Fernando Barbosa,2023-02-27 *Physics of Biological Oscillators* Aneta Stefanovska,Peter V. E.

McClintock,2021-05-05 This book based on a selection of invited presentations from a topical workshop focusses on time variable oscillations and their interactions The problem is challenging because the origin of the time variability is usually unknown In mathematical terms the oscillations are non autonomous reflecting the physics of open systems where the function of each oscillator is affected by its environment Time frequency analysis being essential recent advances in this area including wavelet phase coherence analysis and nonlinear mode decomposition are discussed Some applications to biology and physiology are described Although the most important manifestation of time variable oscillations is arguably in biology they also crop up in e g astrophysics or for electrons on superfluid helium The book brings together the research of the best international experts in seemingly very different disciplinary areas Oxytocin and Social Function Wei Wu,2024-01-24

Welcome to the world of Oxytocin and Social Function an in depth exploration of the powerful role of this neuropeptide in shaping our social behaviors and interactions The book delves into the rich and complex relationship between oxytocin and our social functions Featuring contributions from leading experts in the field this book offers a comprehensive understanding of oxytocin s role in our social lives It goes beyond the laboratory to explore the hormone s potential in real world applications The book also highlights recent research on oxytocin s role in enhancing empathy reducing stress and promoting overall well being With this book readers will gain a deeper understanding of the intricate workings of oxytocin and how it shapes our social behaviors and relationships Oxytocin and Social Function is a must read for anyone interested in human behavior psychology neuroscience or the ever growing field of oxytocin research Turn the page and embark on a captivating journey into the hidden potentials of oxytocin and its transformative effects on our social function **Cumulated Index**

Medicus ,1989 *Quantitative Neuroscience* Panos M. Pardalos,J. Chris Sackellares,Paul R. Carney,Leon D.

Iasemidis,2013-12-01 Advances in the field of signal processing nonlinear dynamics statistics and optimization theory

combined with marked improvement in instrumentation and development of computer systems have made it possible to apply the power of mathematics to the task of understanding the human brain. This veritable revolution already has resulted in widespread availability of high resolution neuroimaging devices in clinical as well as research settings. Breakthroughs in functional imaging are not far behind. Mathematical techniques developed for the study of complex nonlinear systems and chaos already are being used to explore the complex nonlinear dynamics of human brain physiology. Global optimization is being applied to data mining expeditions in an effort to find knowledge in the vast amount of information being generated by neuroimaging and neurophysiological investigations. These breakthroughs in the ability to obtain, store and analyze large datasets offer for the first time exciting opportunities to explore the mechanisms underlying normal brain function as well as the affects of diseases such as epilepsy, sleep disorders, movement disorders and cognitive disorders that affect millions of people every year. Application of these powerful tools to the study of the human brain requires by necessity collaboration among scientists, engineers, neurobiologists and clinicians. Each discipline brings to the table unique knowledge, unique approaches to problem solving and a unique language.

Cellular and molecular targets in epileptogenesis focusing on disease prevention Diana Cunha-Reis, Sandra Henriques Vaz, Paulo Correia-de-Sá, 2023-08-01

Problems in Dynamic Psychology John Thompson MacCurdy, 1922

Quantitative EEG Analysis Methods and Clinical Applications

Shanbao Tong, Nitish V. Thankor, 2009. This authoritative volume provides an overview of basic and advanced techniques used in quantitative EEG/qEEG analysis. The book provides a wide range of mathematical tools used in qEEG from single channel descriptors to the interactions among multi channel EEG analysis. Moreover you find coverage of the latest and most popular application in the field including mental and neurological disease detection, monitoring physiological and cognitive phenomena research and fMRI.

Problems in dynamic psychology; a critique of psychoanalysis and John Thompson MacCurdy, 1922

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