COMPUTING THE BRAIN

A Guide to Neuroinformatics

EDITED BY

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Jeffrey S. Grethe

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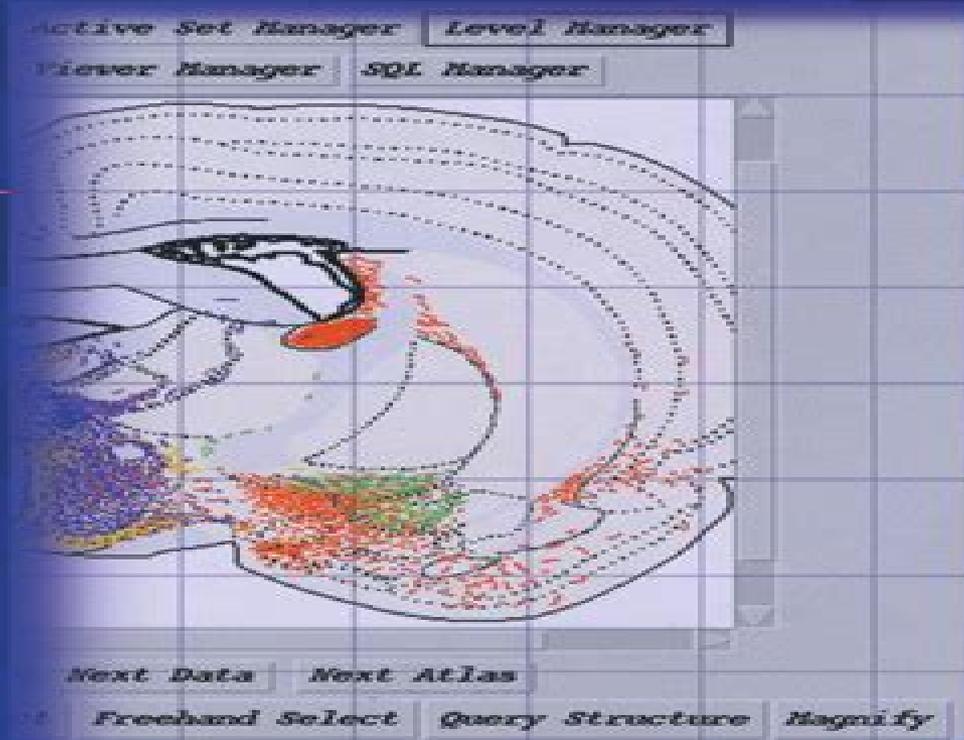
Computing The Brain A Guide To Neuroinformatics:

Computing the Brain Michael A. Arbib,Jeffrey S. Grethe,2001-04-02 Computing the Brain provides readers with an integrated view of current informatics research related to the field of neuroscience This book clearly defines the new work being done in neuroinformatics and offers information on resources available on the Web to researchers using this new technology It contains chapters that should appeal to a multidisciplinary audience with introductory chapters for the nonexpert reader Neuroscientists will find this book an excellent introduction to informatics technologies and the use of these technologies in their research Computer scientists will be interested in exploring how these technologies might benefit the neuroscience community An integrated view of neuroinformatics for a multidisciplinary audience Explores and explains new work being done in neuroinformatics Cross disciplinary with chapters for computer scientists and neuroscientists An excellent tool for graduate students coming to neuroinformatics research from diverse disciplines and for neuroscientists seeking a comprehensive introduction to the subject Discusses in depth the structuring of masses of data by a variety of computational models Clearly defines computational neuroscience the use of computational techniques and metaphors to investigate relations between neural structure and function Offers a guide to resources and algorithms that can be found on the Web Written by internationally renowned experts in the field   **Producing and Analyzing Macro-Connectomes: Current State and Challenges** Mihail Bota,Sharon Crook,Marcus Kaiser,2016-10-20 Construction of comprehensive and detailed brain regions neuroanatomical connections matrices macro connectomes is necessary to understand how the nervous system is organized and to elucidate how its different parts interact Macro connectomes also are the structural foundation of any finer granularity approaches at the neuron classes and types meso connectomes or individual neuron micro connectomes levels The advent of novel neuroanatomical methods as well as combinations of classic techniques form the basis of several large scale projects with the ultimate goal of producing publicly available connectomes at different levels A parallel approach that of systematic and comprehensive collation of connectivity data from the published literature and from publicly accessible neuroinformatics platforms has produced macro connectomes of different parts of the central nervous system CNS in several mammalian species The emergence of these public platforms that allow for the manipulation of rich connectivity data sets and enable the construction of CNS macro connectomes in different species may have significant and long lasting implications Moreover when these efforts are leveraged by novel statistical methods they may influence our way of thinking about the brain Hence the present brain region centric paradigm may be challenged by a network centric one Ultimately these projects will provide the information and knowledge for understanding how different neuronal parts communicate and function developing novel approaches to diseases and disorders and facilitating translational efforts in neurosciences With this Research Topic we bring together the current state of macro connectome related projects including the large scale production of thousands of publicly available neuronatomical experiments databases with tens of thousands of

connectivity records collated from the published literature and the newest methods for displaying and analyzing this information This topic also includes a wide range of challenges and how they are addressed from platforms designed to integrate connectivity data across different sources species and CNS levels of organization to languages specifically designed to use these data in models at different scales of resolution to efforts of 3D reconstruction and data integration and to approaches for extraction and representation of this knowledge Finally we address the present state of different efforts of meso connectomes construction and of computational modeling in the context of the information provided by macro connectomes   **Wikipedia Handbook of Biomedical Informatics** ,   <u>Current Views of Hypothalamic Contributions to the Control of Motivated Behaviors</u> Joel D. Hahn,George Fink,Menno R. Kruk,B. Glenn Stanley,2019-11-27 The increasing availability of technologies for interrogating genetically targeted neurons is driving a resurgence of empirical research aimed at determining the structure and function of the neural systems that control motivated behaviors This has refocused attention on the hypothalamus whose central role in behavioral control was identified about a century ago As a result new insights into hypothalamic contributions to the control of motivated behaviors are emerging driven not only by the application of new technologies but also by the application in parallel of iteratively refined established techniques and increasingly by informatics approaches applied to maturing neuroscience databases With this renewed interest in decrypting hypothalamic contributions to the control of motivated behaviors it is timely to provide an updated overview that bridges current insights and historical foundations   **Philosophical Transactions of the Royal Society of London** ,2001 Each issue of Transactions B is devoted to a specific area of the biological sciences including clinical science All papers are peer reviewed and edited to the highest standards Published on the 29th of each month Transactions B is essential reading for all biologists   *Mouse Brain Atlasing* Allan James MacKenzie-Graham,2006   *The British National Bibliography* Arthur James Wells,2005   **Oncology & hematology** Martin D. Abeloff,2001   <u>Who's Who in the West</u> Marquis Who's Who,2006-06   *MAPPING: MAnagement and Processing of Images for Population ImagiNG* Michel Dojat,Wiro Niessen,David N. Kennedy,2017-09-04 Several recent papers underline methodological points that limit the validity of published results in imaging studies in the life sciences and especially the neurosciences Carp 2012 Ingre 2012 Button et al 2013 Ioannidis 2014 At least three main points are identified that lead to biased conclusions in research findings endemic low statistical power and selective outcome and selective analysis reporting Because of this and in view of the lack of replication studies false discoveries or solutions persist To overcome the poor reliability of research findings several actions should be promoted including conducting large cohort studies data sharing and data reanalysis The construction of large scale online databases should be facilitated as they may contribute to the definition of a collective mind Fox et al 2014 facilitating open collaborative work or crowd science Franzoni and Sauermann 2014 Although technology alone cannot change scientists practices Wicherts et al 2011 Wallis et al 2013 Poldrack and Gorgolewski 2014 Roche et al 2014 technical solutions should be identified which

support a more open science approach Also the analysis of the data plays an important role For the analysis of large datasets image processing pipelines should be constructed based on the best algorithms available and their performance should be objectively compared to diffuse the more relevant solutions Also provenance of processed data should be ensured MacKenzie Graham et al 2008 In population imaging this would mean providing effective tools for data sharing and analysis without increasing the burden on researchers This subject is the main objective of this research topic RT cross listed between the specialty section Computer Image Analysis of Frontiers in ICT and Frontiers in Neuroinformatics Firstly it gathers works on innovative solutions for the management of large imaging datasets possibly distributed in various centers The paper of Danso et al describes their experience with the integration of neuroimaging data coming from several stroke imaging research projects They detail how the initial NeuroGrid core metadata schema was gradually extended for capturing all information required for future metaanalysis while ensuring semantic interoperability for future integration with other biomedical ontologies With a similar preoccupation of interoperability Shanoir relies on the OntoNeuroLog ontology Temal et al 2008 Gibaud et al 2011 Batrancourt et al 2015 a semantic model that formally described entities and relations in medical imaging neuropsychological and behavioral assessment domains The mechanism of Study Card allows to seamlessly populate metadata aligned with the ontology avoiding fastidious manual entrance and the automatic control of the conformity of imported data with a predefined study protocol The ambitious objective with the BIOMIST platform is to provide an environment managing the entire cycle of neuroimaging data from acquisition to analysis ensuring full provenance information of any derived data Interestingly it is conceived based on the product lifecycle management approach used in industry for managing products here neuroimaging data from inception to manufacturing Shanoir and BIOMIST share in part the same OntoNeuroLog ontology facilitating their interoperability ArchiMed is a data management system locally integrated for 5 years in a clinical environment Not restricted to Neuroimaging ArchiMed deals with multi modal and multi organs imaging data with specific considerations for data long term conservation and confidentiality in accordance with the French legislation Shanoir and ArchiMed are integrated into FLI IAM1 the national French IT infrastructure for in vivo imaging
    Neuroscience, computing, performance, and benchmarks: Why it matters to neuroscience how fast we can compute Felix Schürmann,Omar Awile,James Courtney Knight,Thomas Nowotny,James B. Aimone,Markus Diesmann,2023-04-26 **Ist das Gehirn der Geist?** Felix Tretter,Christine Grünhut,2010 Subject Guide to Books in Print ,1991 **From Computer to Brain** William W. Lytton,2002-10-01 Biology undergraduates medical students and life science graduate students often have limited mathematical skills Similarly physics math and engineering students have little patience for the detailed facts that make up much of biological knowledge Teaching computational neuroscience as an integrated discipline requires that both groups be brought forward onto common ground This book does this by making ancillary material available in an appendix and providing basic explanations without becoming bogged down in unnecessary details The book will be suitable for

undergraduates and beginning graduate students taking a computational neuroscience course and also to anyone with an interest in the uses of the computer in modeling the nervous system **Neuroimaging Workflow Design and Data-Mining** John Van Horn,2012-04-01 With the increasing number of neuroimaging studies appearing yearly in the literature the need to consider the synthesis of the underlying data into new knowledge and research directions has never been more important The development of large scale databases and grid enabled computing has laid the groundwork for mining these rich datasets beyond the scope of their initial collection Additionally meta analyses of the summary results contained in published research articles have provided a powerful way to explore hidden trends in the neuroscience literature In each case the processing of data requires a careful consideration of the individual processing steps involved and how they can be assembled into reliable workflows In results from published studies the manner in which data were processed may influence meta analytic results which can have implications on clinical interpretation Several efforts now exist that provide tools for use in the construction of data processing workflows However careful thought must be given to ensuring appropriate efficient optimal and replicable processing The results obtained from data mining and meta analysis must tell a story about a collection of existing data Also they must suggest novel and testable hypotheses for further investigation with implications for understanding of the brain in health and disease Where they do these new results and interpretations often provide fresh insights into the data that extend beyond the rationale for their original collection In this volume we have asked leaders in the field of neuroimaging data mining and meta analysis to provide their thoughts on methods for efficient workflow design interoperability with large scale databases and to discuss their work in exploring the richness of brain imaging data as well as the literature of published research results Neurology & Neuroscience Richard T. Johnson,2001 *Brain Informatics* Feng Liu,Yu Zhang,Hongzhi Kuai,Emily P. Stephen,Hongjun Wang,2023-09-13 This book constitutes the proceedings of the 16th International Conference on Brain Informatics BI 2023 which was held in Hoboken NJ USA during August 1 3 2023 The 40 full papers presented in this book were carefully reviewed and selected from 101 submissions The papers are divided into the following topical sections cognitive and computational foundations of brain science investigations of human Information processing systems brain big data analytics curation and management informatics paradigms for brain and mental health research brain machine intelligence and brain inspired computing and the 5th international workshop on cognitive neuroscience of thinking and reasoning Who's who in America ,2003 Databasing the Brain Steven H. Koslow,Shankar Subramaniam,Shankar Prasanna Subramaniam,2005-03-10 Prize or Award AAP Awards for Excellence in Professional and Scholarly Publishing 2006 Society for Neuroscience Abstracts Society for Neuroscience. Meeting,2001

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