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Computational Neuroanatomy The Methods

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Neuroanatomy: Principles and Methods. Publisher: Humana Press Inc. Editor: Giorgio Ascoli (To appear in Spring 2002.) Table of Contents. Preface Chapter 1: Computing the brain and the computing brain. Giorgio A. Ascoli 1.1 Introduction 1.2 Computing the brain 1.3 From neurons to networks 1.4 The computing brain 1.5 Conclusions PART I Computational Neuroanatomy: Principles and Methods These are, in part, computational problems that are solved by networks of neurons, from roughly 100 cells in a small worm to 100 billion in humans. Methods in Computational Neuroscience introduces students to the computational and mathematical techniques that are used to address how the brain solves these problems at levels of neural organization ranging from single membrane channels to operations of the entire brain. Methods in Computational Neuroscience Dr. Giorgio Ascoli, George Mason University, Fairfax, VA, USA. In the broadest sense, computational neuroanatomy is the application of computational techniques (e.g. analysis, visualization, modeling, and simulation) to the investigation of neural structure. Within the field of computational neuroscience, computational neuroanatomy is principally considered to aim at creating anatomically accurate models of the nervous system. Computational neuroanatomy - Scholarpedia Authoritative and groundbreaking, Computational Neuroanatomy: Principles and Methods comprehensively integrates for the first time both the principles and the methods that are playing a central role in generating a complete, unitary, and functional neuroanatomical model of the brain. Computational Neuroanatomy | SpringerLink Aug 30, 2020

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