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Computational neuroanatomy is an emerging field that utilizes various non-invasive brain imaging modalities, such as MRI and DTI, in quantifying the spatiotemporal dynamics of the human brain structures in both normal and clinical populations. This discipline emerged about twenty years ago and has made substantial progress in the past decade.

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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 problems at levels of neural organization ranging from single membrane channels to operations of the entire brain.

Methods in Computational Neuroscience

Background: Current computational neuroanatomy focuses on morphological measurements of the brain using standard magnetic resonance imaging (MRI) techniques.

Computational neuroanatomy: The methods - ResearchGate

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.

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Dr. Giorgio Ascoli, George Mason University, Fairfax, VA, USA. In the broadest sense, computational neuroanatomy is the application of computational neuroanatomy is principally considered to aim at creating anatomically accurate models of the nervous system.

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Neuroanatomy - Wikipedia

Computational neuroscience is a relatively new area of inquiry that is concerned with how components of animal and human nervous systems interact to produce behaviors. It relies on quantitative and modeling methods to understand the function of the nervous system, natural behaviors and cognitive processes, and to design human-made devices that duplicate behaviors.

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Computational Neuroanatomy | SpringerLink

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Computational neuroanatomy: ontology-based representation ...

Computational neuroscience (also known as theoretical neuroscience which employs mathematical neuroscience which employs mathematical neuroscience which employs computational simulations to validate and solve the mathematical method of theoretical neuroscience which employs computational simulations to validate and solve the mathematical neuroscience which employs computational neuroscience which employs computational neuroscience which employs computational simulations to validate and solve the mathematical neuroscience which employs computational neuroscience wh

Neuroscience encompasses approaches ranging from molecular and cellular studies to human psychophysics and psychology. The aim of computational neuroscience is to describe how electrical and chemical signals are used in the brain to interpret and process information. This intention is not new, but much has changed in the last decade.

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