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Dr. Giorgio Ascoli, George Mason University, Fairfax, VA, USA. In the broadest sense, computational neuroanatomy is the application of

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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.

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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 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

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Methods in Computational Neuroscience

Although remarkable progress has been achieved on computational neuroanatomy of infant brains, there are still various limitations and open questions, which have been discussed in the previous sections and are also briefly summarized here: □ Methods. Due to the partial volume, dynamic, and regionally-varying appearances of infant MR images, conventional methods are often unable to achieve satisfactory accuracy, especially for isointense images around 6 months of age with insufficient ...

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Computational Genetics: A Massive Step for Neuroscience

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.

A Brief Introduction to Computational

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known as theoretical neuroscience or
mathematical neuroscience) is a
branch of neuroscience which employs
mathematical models, theoretical

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analysis and abstractions of the brain
to understand the principles that
govern the development, structure,
physiology and cognitive abilities of
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