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## **computational neuroscience wikipedia**

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[[[ computational neuroscience also known as theoretical neuroscience or mathematical neuroscience is a branch of neuroscience which employs mathematics computer science theoretical analysis and abstractions of the brain

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[[[ 2021-12-7 computational neuroscience is the field of study in which mathematical tools and theories are used to investigate brain function it can also incorporate diverse approaches from

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[[[ we will explore the computational principles governing various aspects of vision sensory motor control learning and memory specific topics that will be covered include representation of information by spiking neurons processing of information in neural networks and algorithms for adaptation and learning

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Frontiers 2018-2020 computational neuroscience has modeled how interacting neurons can implement elementary components of cognition it is time to assemble the pieces of the puzzle of brain computation and to better

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Frontiers the journal of computational neuroscience focuses on understanding brain function at the level of neurons and circuits via computational and model based approaches that are tied to biology and are experimentally testable publishes full length original papers as well as rapid communications perspectives and review articles

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[[[ a major reference work for researchers and graduate students that covers over 50 subject areas related to neuroscience and computation and explores how mathematical and computational techniques are required to achieve both a comprehensive and quantitative understanding of neural system function

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[[[ the goal of computational neuroscience is to find mechanistic explanations for how the nervous system processes information to support cognitive function as well as adaptive behavior



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