

## Computational Plasticity

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### Computational Plasticity

Computational creativity (also known as artificial creativity, mechanical creativity, creative computing or creative computation) is a multidisciplinary endeavour that is located at the intersection of the fields of artificial intelligence, cognitive psychology, philosophy, and the arts.. The goal of computational creativity is to model, simulate or replicate creativity using a computer, to ...

### Computational creativity - Wikipedia

Computational electromagnetics (CEM), computational electrodynamics or electromagnetic modeling is the process of modeling the interaction of electromagnetic fields with physical objects and the environment.. It typically involves using computer programs to compute approximate solutions to Maxwell's equations to calculate antenna performance, electromagnetic compatibility, radar cross section ...

### Computational electromagnetics - Wikipedia

Neural plasticity is the ability of the nervous system to change. ... Advances in computational neuroscience and brain imaging techniques have been instrumental in making possible supervision of in vivo connectivity changes (Bullmore and Sporns, 2009; Stam, 2014). In particular, the application of graph theory derived approaches is quite ...

### Neural Plasticity - an overview | ScienceDirect Topics

Offered by University of Washington. This course provides an introduction to basic computational methods for understanding what nervous systems do and for determining how they function. 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 ...

### Computational Neuroscience | Coursera

To survive, animals need to adapt to changes of their ecosystem by changing their behaviors or even morphing the organs responsible for generating these behaviors. Small mammals have a high metabolic rate, and to balance energy deficits during winter they can decrease their brain and body size, a phenomenon termed Dehnel's effect. We find specific seasonal changes in the brain of the ...

### Seasonal plasticity in the adult somatosensory cortex | PNAS

The analogy could be extended to dendritic control mechanisms, with the soma and basal dendrites processing Na spikes and apical dendrites processing Ca spikes. It is therefore possible that Golgi cells of cerebellum share common plasticity rules and computational principles with pyramidal neurons [30,31].

### Cerebellar Golgi cell models predict dendritic processing ...

Finally, Megf10-knockout mice show defective long-term synaptic plasticity and impaired formation of hippocampal memories. Together, our data provide strong evidence that astrocytes eliminate unnecessary excitatory synaptic connections in the adult hippocampus through MEGF10, and that this astrocytic function is crucial for maintaining circuit ...

### Astrocytes Eat Connections to Maintain Plasticity in Adult ...

An action potential (AP) triggers neurotransmitter release from synaptic vesicles (SVs) docking to a specialized release site of presynaptic plasma membrane, the active zone (AZ). The AP simultaneously controls the release site replenishment with SV for sustainable synaptic transmission in response to incoming neuronal signals. Although many studies have suggested that the replenishment time ...

### IJMS | Free Full-Text | Neurotransmitter Release Site ...

8.2 Synaptic Plasticity Rules 284 8.3 Unsupervised Learning 293 8.4 Supervised Learning 313 8.5 Chapter Summary 326 8.6 Appendix 327 ... Computational neuroscience is an approach to understanding the infor-mation content of neural signals by modeling the nervous system at many

### Theoretical Neuroscience

Research indicates that core dimensions of psychological well-being can be cultivated through intentional mental training. Despite growing research in this area and an increasing number of interventions designed to improve psychological well-being, the field lacks a unifying framework that clarifies the dimensions of human flourishing that can be cultivated.

### The plasticity of well-being: A training-based framework ...

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