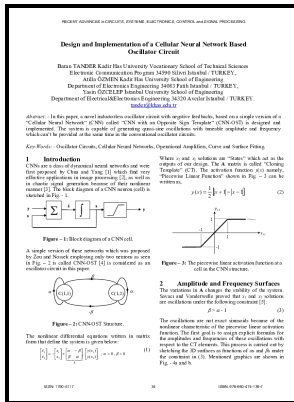


Neuronal and cellular oscillators

Marcel Dekker - Oscillator Networks



Description: -

-
Neural circuitry
Heart cells -- Electric properties
Neurons
Biological rhythms
Neurophysiology
Neuronal and cellular oscillators
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v. 2
Cellular clocks ;Neuronal and cellular oscillators
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Neural Syntax: Cell Assemblies, Synapsembles, and Readers

The development of neuro-inspired hardware holds the promise of accelerating these algorithms by exploiting in-memory computing concepts and limiting the number of accesses to the memory.

Neuronal influence on peripheral circadian oscillators in pupal *Drosophila* prothoracic glands

Some types of neurons will fire rhythmically in the absence of any synaptic input. Transgenic zebrafish lines carrying luciferase reporters driven by core clock gene promoters have been developed in larval zebrafish. In particular, it describes how the activity of a group of interacting neurons can become synchronized and generate large-scale oscillations.

Frontiers

Analysis of gene regulatory networks in the mammalian circadian rhythm.

Neuronal oscillators: Experiments and models

They range from models of the short-term behaviour of individual neurons, through models of how the dynamics of arise from interactions between individual neurons, to models of how behaviour can arise from abstract neural modules that represent complete subsystems. From left to right, 6. LN efferents terminate on a pair of neurons containing prothoracicotrophic hormone that project to PG cells, suggesting that PG cell oscillations are under the influence of LNs.

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