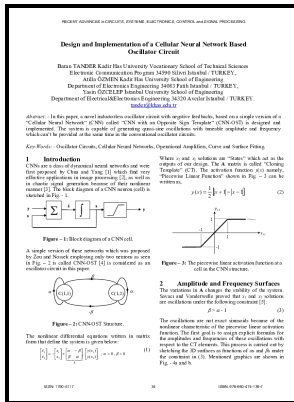


Neuronal and cellular oscillators

Marcel Dekker - Oscillator Networks



Description: -

-
Neural circuitry
Heart cells -- Electric properties
Neurons
Biological rhythms
Neurophysiology
Neuronal and cellular oscillators

v. 2

Cellular clocks ;Neuronal and cellular oscillators

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Here we show differences and interactions between peripheral and central oscillators using per-luciferase and cytosolic Ca²⁺ reporter yellow cameleon imaging in organotypic prothoracic gland cultures with or without the associated central nervous system. Neurons in a rarely all fire at exactly the same moment, i.

Neural Oscillation

B Lower panels highlight the differences in phase of PER2::LUC expression in neuronal tissue of the MBH in representative control and food deprived mice. Through synaptic interactions, the firing patterns of different neurons may become synchronized and the rhythmic changes in electric potential caused by their action potentials will add up. Synchronization: a universal concept in nonlinear sciences.

Single

Only 1 out of 142 DD cells showed significant oscillation, consistent with the JTKcycle result. Purely theoretical formulations of the binding-by-synchrony hypothesis were proposed first, but subsequently extensive experimental evidence has been reported supporting the potential role of synchrony as a relational code. We show the potentiality of the ONN technology for the realization of reconfigurable CNN in hardware, therefore bridging the gap between previous demonstration of ONN pattern retrieval and the industry-standard algorithms.

Multiphasic neuronal transfer functions for representing temporal structure

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