

stochastic dynamics and pattern pdf

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Dynamics and Physiological Roles of Stochastic Firing Patterns in the Morris-Lecar model and are related to characteristics such as fixed firing frequency and coex-

Dynamics and Physiological Roles of Stochastic Firing

of the epidemic pattern. The rather heterogeneous spatiotemporal pattern emerging during the epidemic evolution might find its origin in one or more features of the underlying network as well as in the inherent stochastic dynamics of the disease transmission. In order to discriminate the various effects we introduce in Section

The Modeling of Global Epidemics: Stochastic Dynamics and

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The amazing dynamics of stochastic pattern formation and growth models inspired by the Conway's Game of Life Leonid P. Yaroslavsky, Dept. of Physical Electronics, School of Electrical Engineering, Tel Aviv University, Tel Aviv 69978, Israel, yaro@eng.tau.ac.il Abstract

The dynamics stochastic pattern formation and growth

Stochastic network thinking applied to firing patterns of stellate neurons The medial entorhinal cortex (MEC) provides an important input to the hippocampus, which plays a major role in memory and spatial navigation. The primary excitatory cells of the MEC are stellate neural cells which feed forward to place cells in the hippocampus.

Stochastic dynamics applied to firing patterns of stellate

pattern, under the network dynamics. However the learnt patterns are not the only attractors, there may be many others: either correlated with mixtures of the training patterns, or otherwise. These spurious attractors are normally unhelpful. In the standard stochastic model the addition of noise to the dynamics can be beneficial [1]: the free

STOCHASTIC DYNAMICS AND HIGH CAPACITY ASSOCIATIVE MEMORIES

Abstract. We describe several models for interacting particle systems far from thermal equilibrium and show that for both deterministic and stochastic dynamics ordered patterns decay or emerge.

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