

Dynamics of pruning in simulated large-scale spiking neural networks

J. Iglesias^{1,2,3}, J. Eriksson², F. Grize¹, M. Tomassini¹, A.E.P. Villa^{2,3}

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1: Information Management Department, University de Lausanne, Switzerland

2: Laboratory of Neuroheuristics, University de Lausanne, Switzerland

3: Laboratory of Neurobiophysics, University Joseph-Fourier, France

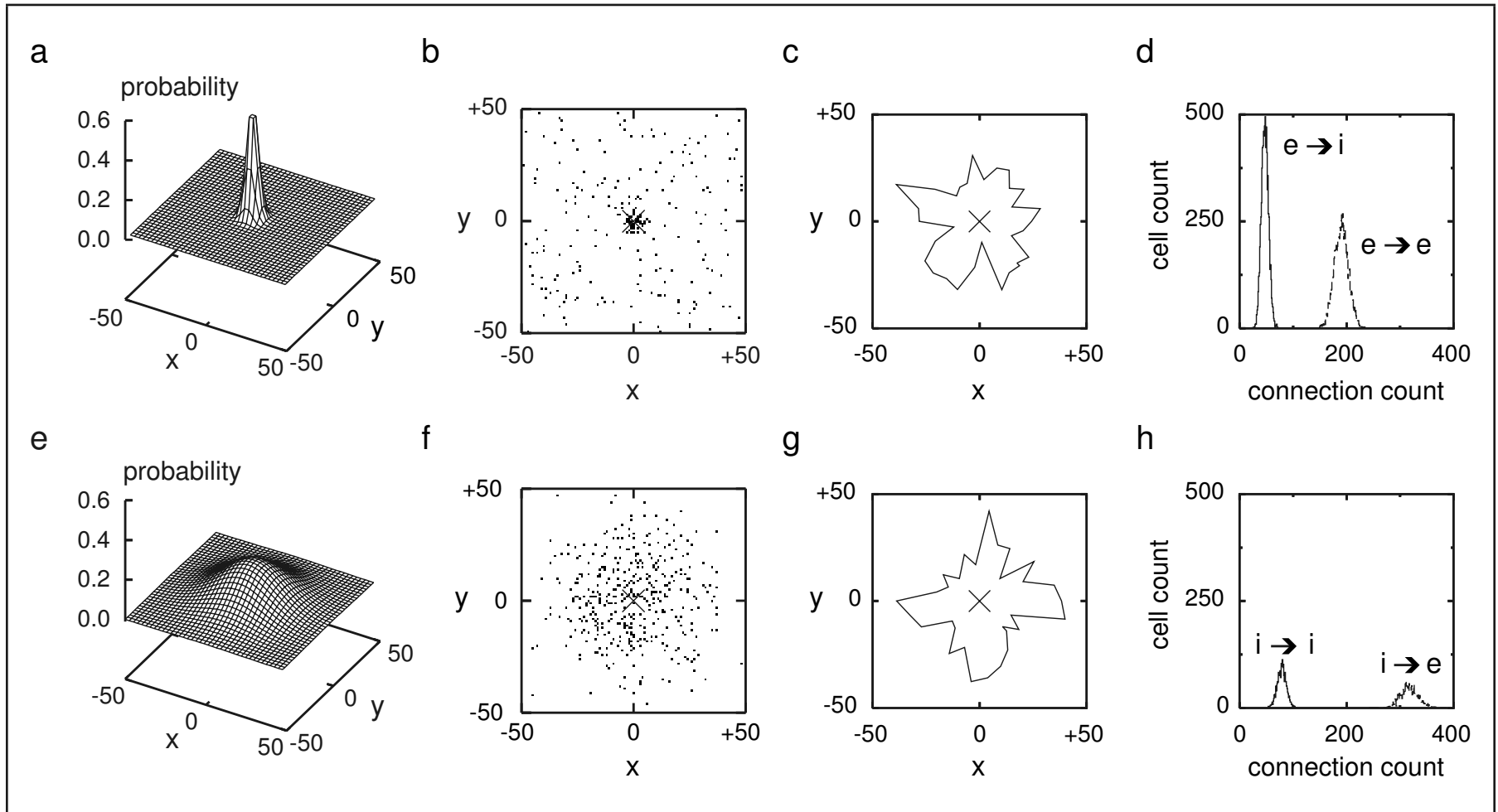
<javier.iglesias@hec.unil.ch>

- model synaptic pruning after over-growth

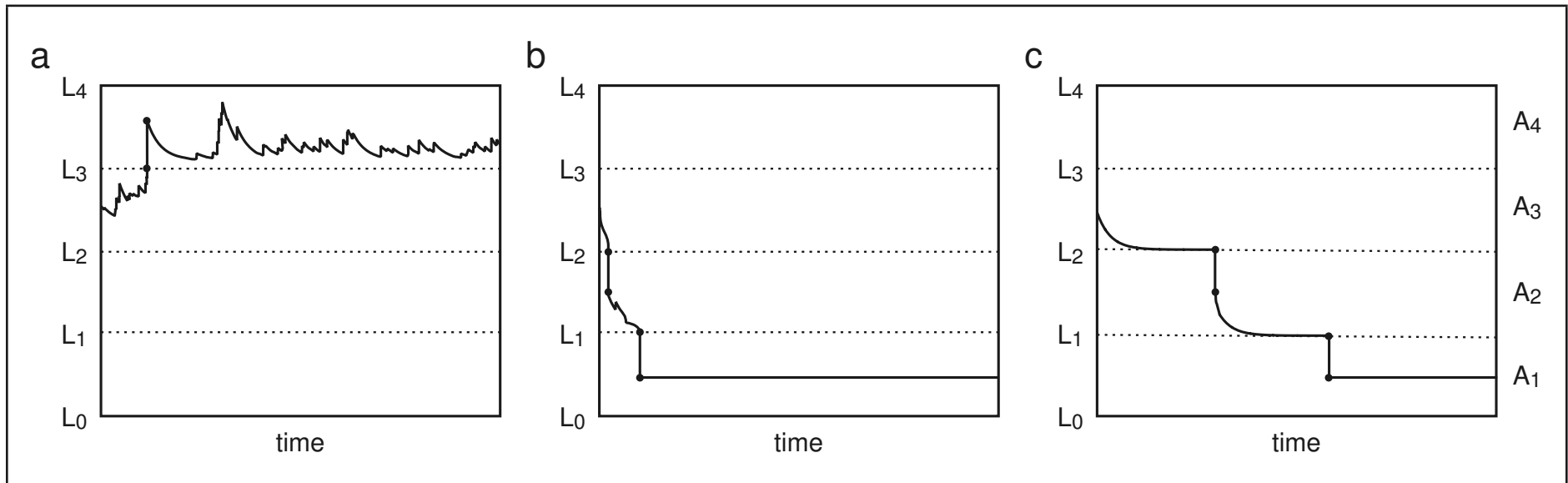
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- Iglesias, Eriksson, Grize, Tomassini, Villa, *submitted*. "Dynamics of pruning in simulated large-scale spiking neural networks".

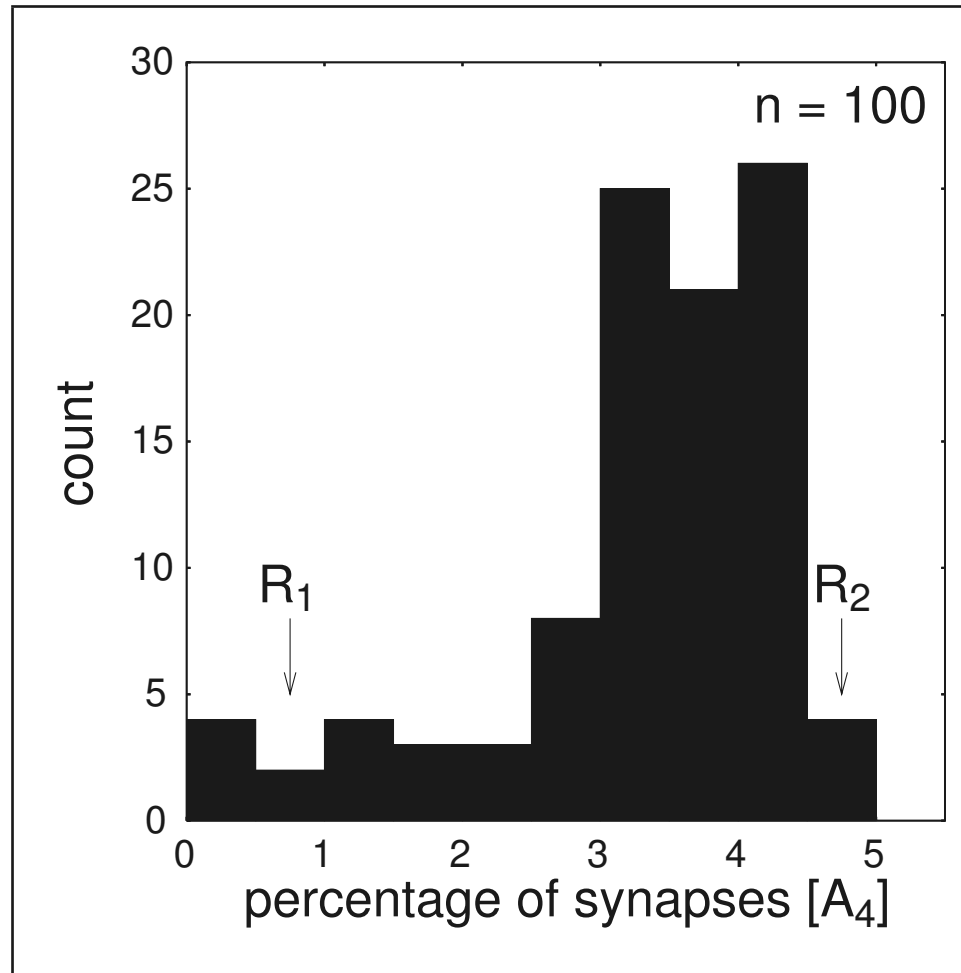


$$L_{ji}(t + 1) = k_{act} \cdot L_{ji}(t) + (S_i(t) \cdot M_j(t)) - (S_j(t) \cdot M_i(t))$$



[board drawing]

Modelled as the correlated input of ca. 50 source excitatory neurons, getting the target neuron to discharge as a Poisson process with a mean firing rate λ_i of 10 spikes/s.



result 2: no change in preferential direction or length

