

Project: Computational Neuroscience

Learning and inference in hierarchical networks of spiking neurons

Description:

Recently, it was shown that simple networks of spiking neurons are capable of learning and inferring hidden causes from data. In this project we will analyse how hierarchies of such networks behave and how they can learn hierarchies of hidden causes from data.

Your tasks:

Simulations in Matlab or Python, software partly available.

Prerequisites:

- Lecture Neural Networks B, preferably also lectures in Machine Learning.

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