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Talk titel: Recent research on brain-inspired Modeling and its applications

Abstract:

Given a few labelled samples, semi-supervised learning generally performs much better than supervised learning, semi-supervised learning algorithms are more robust to noise. Label Prediction via Deformed Graph Laplacian for Semi-supervised Learning is presented. A novel curriculum learning approach, dubbed multi-modal curriculum learning, to optimize the quality of semi-supervised image classification is proposed.

NeuCube, a spiking neural network architecture, is presented for FMRI data analysis of Brain cognition, and for obstacle avoidance in prosthetic vision.