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LCN is the Laboratory of Computational Neuroscience at the Swiss Federal Institute of Technology Lausanne (EPFL). The LCN is headed by Professor Wulfram Gerstner and has research activities in the area of neural networks and computational neuroscience.

LCN – Laboratory of Computational Neuroscience
Back: Past Courses and Events; 2020 Winter School "Nanoparticles: from fundamentals to applications in life sciences" 2019 Advanced Course: Introduction to scanning electron microscopy microanalysis techniques

Group – LCN - EPFL
Optimal time for the null-controllability of linear hyperbolic systems in one dimensional space. J-M. Coron; H-M. Nguyên . SIAM Journal on Control and Optimization.

Publications – LCN - EPFL
Activities at the Laboratory of Computational Neuroscience focus on the following questions centered around temporal aspects of information processing in the brain.

Research – LCN - EPFL
Spiking neuronal network simulations (Python, NEST Simulator) for continuous attractor working memory networks with short-term plasticity. - EPFL-LCN/pub-seeholzer2018

GitHub - EPFL-LCN/pub-seeholzer2018: Spiking neuronal ...
Laboratory of Computational Neuroscience @ EPFL. EPFL-LCN has 14 repositories available. Follow their code on GitHub.

EPFL-LCN · GitHub
These include G-protein and kinase networks, receptor trafficking, control of local dendritic protein synthesis, and transcriptional control. Second, we have been developing capabilities for a vertical, mutiscale analysis of interactions between network, electrical, and chemical signaling.

Titles and Abstracts – LCN - EPFL
EPFL-LCN / pub-zenke2014-frontneuroinform forked from fzenke/auryn. Watch 1 Star 0 Fork 33 Code. Pull requests 0. Actions Projects 0; Security Insights Dismiss Join GitHub today. GitHub is home to over 50 million developers working together to host and review code, manage projects, and build software together. Sign up. Auryn: A fast ...

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Laboratory of Computational Neuroscience, LCN EPFL - Batiment AA-B (Station 15) offices 135-141 CH-1015 LAUSANNE EPFL Switzerland Tel. ++41 21 693 6713 Fax ++41 21 693 5350 E-Mail wulfram.gerstner@epfl.ch

Wulfram Gerstner

As director of the Laboratory of Computational Neuroscience LCN at the EPFL, Wulfram Gerstner conducts research in computational neuroscience with special emphasis on models of spiking neurons, spike-timing dependent plasticity, and reward-based learning in spiking neurons.

Wulfram Gerstner

This is a (julia) code collection for the publication: B. Illing, W. Gerstner & J. Brea, Biologically plausible deep learning - but how far can we go with shallow networks?, Neural Networks 118 (2019) 90-101 Contact: bernd.illing@epfl.ch Installation. Dependencies: Mac or Linux; Julia (1.1 or higher); All other (julia) dependencies and packages will be installed or updated automatically.

GitHub - EPFL-LCN/pub-illing2019-nnetworks: Public code ...

Link to LCN Code link to code on github . D. J. Rezende and W. Gerstner (2014) Stochastic variational learning in recurrent spiking networks Frontiers In Computational Neuroscience 8:38 download pdf . G. Hennequin, T.P. Vogels and W. Gerstner (2014) Optimal Control of Transient Dynamics in Balanced Networks Supports Generation of Complex Movements

Wulfram Gerstner - Main Publications (and ... - lcnwww.epfl.ch

W. Gerstner and H. Sprekeler and G. Deco (2012) Theory and Simulation in Neuroscience Science 338:60-65 (2012) Preprint . G. Hennequin and T.P. Vogels and W. Gerstner (2012) Non-normal

amplification in random balanced neuronal networks PHYSICAL REVIEW E 86:011909 R. Naud and W. Gerstner (2012)

Wulfram Gerstner - Publications - lcnwww.epfl.ch

SEVERAL ONLINE -Lectures per week of about 10-20 Minutes each over 7 weeks (49 lectures total). This course, designed for Physicists and mathematically trained Life Scientists focuses on modeling of single neurons .It covers classical topics of computational neuroscience such as the Hodgkin-Huxley models, and integrate-and-fire models, as well as modern state-of-the art approaches such as ...

W. Gerstner - ONLINE COURSE - Computational Neuroscience

Python exercises accompanying the book "Neuronal Dynamics" - EPFL-LCN/neuronaldynamics-exercises

new parameters: working memory simulation now takes ...

B.Illing,W.GerstnerandJ.Brea/NeuralNetworks118(2019)90–101 91 Table 1 Alphabeticallistofabbreviationsinthispaper. Abbreviation Description AE Autoencoder

NeuralNetworks Biologicallyplausibledeeplearning ...

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