Liste complète des publications

Laurent U PERRINET



Équipe NEural OPerations in TOpographies (NeOpTo)

Institut de Neurosciences de la Timone

UMR 7289, CNRS / Aix-Marseille Université

27, Bd. Jean Moulin, 13385 Marseille Cedex 5, France

https://laurentperrinet.github.io/

Laurent.Perrinet@univ-amu.fr

1 Articles de revues en cours de révision

- A60 Skye Gunasekaran, Assel Kembay, Hugo Ladret, Rui-Jie Zhu, Laurent Perrinet, Omid Kavehei et Jason Eshraghian. Future-Guided Learning: A Predictive Approach To Enhance Time-Series Forecasting. 19 oct. 2024. doi: 10.48550/arXiv.2410.15217. arXiv: 2410.15217. url: http://arxiv.org/abs/2410.15217 (visité le 29/11/2024). Prépubl.
- A59 Jean-Nicolas JÉRÉMIE, Emmanuel DAUCÉ et <u>Laurent U PERRINET</u>. « Retinotopic Mapping Enhances the Robustness of Convolutional Neural Networks ». In: *Submitted* (7 août 2023). DOI: 10.48550/arXiv.2402.15480
- A58 Giacomo Benvenuti, Sandrine Chemla, Arjan Boonman, <u>Laurent U Perrinet</u>, Guillaume S Masson et Frédéric Y Chavane. « Anticipatory Responses along Motion Trajectories in Awake Monkey Area V1 ». en. In: *bioRxiv* (2020), p. 2020.03.26.010017. DOI: 10/ggqj77. (Visité le 31/03/2020)

2 Articles de revues internationales à comité de lecture

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- A57 Antoine Grimaldi, Victor Boutin, Sio-Hoi Ieng, Ryad Benosman et <u>Laurent U Perrinet</u>. « A Robust Event-Driven Approach to Always-on Object Recognition ». In: *Neural Networks* 178 (1er oct. 2024), p. 106415. DOI: 10.1016/j.neunet.2024.106415. URL: https://laurentperrinet.github.io/publication/grimaldi-24/
- A56 Hugo Ladret, Christian Casanova et <u>Laurent U Perrinet</u>. « Kernel Heterogeneity Improves Sparseness of Natural Images Representations ». In: *Neuromorphic Computing and Engineering* (20 août 2024). DOI: 10.1088/2634-4386/ad5d0f. URL: https://iopscience.iop.org/article/10.1088/2634-4386/ad5d0f

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- A54 Amélie Gruel, Dalia Hareb, Antoine Grimaldi, Jean Martinet, <u>Laurent U Perrinet</u>, Bernabé Linares-Barranco et Teresa Serrano-Gotarredona. « Stakes of Neuromorphic Foveation: a promising future for embedded event cameras ». In: *Biological Cybernetics* (2023)
- A53 Antoine GRIMALDI et <u>Laurent U PERRINET</u>. « Learning heterogeneous delays in a layer of spiking neurons for fast motion detection ». In: *Biological Cybernetics* (11 sept. 2023). DOI: 10.1007/s00422-023-00975-8. URL: https://laurentperrinet.github.io/publication/grimaldi-23-bc/
- A52 Hugo Ladret, Nelson Cortes, Lamyae Ikan, Frédéric Chavane, Christian Casanova et <u>Laurent U Perrinet</u>. « Cortical recurrence supports resilience to sensory variance in the primary visual cortex ». In: *Nature Communications Biology* (6 juin 2023). DOI: 10.1038/s42003-023-05042-3. URL: https://www.nature.com/articles/s42003-023-05042-3
- A51 Jean-Nicolas Jérémie et <u>Laurent U Perrinet</u>. « Ultra-Fast Image Categorization in biology and in neural models ». In: *Vision* (21 mars 2023). DOI: 10.3390/vision7020029. (Visité le 21/03/2023)

- A50 Antoine Grimaldi, Amélie Gruel, Camille Besnainou, Jean-Nicolas Jérémie, Jean Martinet et <u>Laurent U Perrinet</u>. « Precise spiking motifs in neurobiological and neuromorphic data ». In: <u>Brain Sciences</u> (23 déc. 2022). DOI: 10.3390/brainsci13010068. URL: https://laurentperrinet.github.io/publication/grimaldi-22-polychronies/
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- A48 Frédéric V BARTHÉLEMY, Jérôme Fleuriet, <u>Laurent U Perrinet</u> et Guillaume S Masson. « A Behavioral Receptive Field for Ocular Following in Monkeys: Spatial Summation and Its Spatial Frequency Tuning ». In: *eNeuro* (2022), ENEURO.0374-21.2022. ISSN: 2373-2822. DOI: 10.1523/ENEURO.0374-21.2022
- A47 Frédéric Chavane, <u>Laurent U Perrinet</u> et James Rankin. « Revisiting Horizontal Connectivity Rules in V1: From like-to-like towards like-to-All ». In: *Brain Structure and Function* (5 fév. 2022). ISSN: 1863-2661. DOI: 10.1007/s00429-022-02455-4. URL: https://doi.org/10.1007/s00429-022-02455-4 (visité le 06/02/2022)

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A41 Cesar U RAVELLO, <u>Laurent U PERRINET</u>, Maria-José ESCOBAR et Adrián G PALACIOS. « Speed-Selectivity in Retinal Ganglion Cells is Sharpened by Broad Spatial Frequency, Naturalistic Stimuli ». In: *Scientific Reports* 9.1 (24 jan. 2019). DOI: 10.1038/s41598-018-36861-8. URL: https://doi.org/10.1038%2Fs41598-018-36861-8

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- A35 Jonathan Vacher, Andrew Isaac Meso, <u>Laurent U Perrinet</u> et Gabriel Peyré. « Biologically Inspired Dynamic Textures for Probing Motion Perception ». In: *Advances in Neural Information Processing Systems* 28 (2015), p. 1918-1926. url: http://papers.nips.cc/paper/5769-biologically-inspired-dynamic-textures-for-probing-motion-perception.pdf
- A34 <u>Laurent U Perrinet</u> et James A Bednar. « Edge co-occurrences can account for rapid categorization of natural versus animal images ». In: *Scientific Reports* 5 (2015), p. 11400. DOI: 10.1038/srep11400. URL: http://www.nature.com/articles/srep11400

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- A31 Bernhard A KAPLAN, Anders LANSNER, Guillaume S MASSON et <u>Laurent U PERRINET</u>. « Anisotropic connectivity implements motion-based prediction in a spiking neural network ». In: Frontiers in Computational Neuroscience 7.112 (17 sept. 2013). DOI: 10.3389/fncom.2013.00112. URL: https://laurentperrinet.github.io/publication/kaplan-13
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- A29 Claudio SIMONCINI, <u>Laurent U PERRINET</u>, Anna MONTAGNINI, Pascal MAMASSIAN et Guillaume S MASSON. « More is not always better: dissociation between perception and action explained by adaptive gain control ». In: *Nature Neuroscience* (2012). DOI: 10.1038/nn.3229. URL: http://www.nature.com/neuro/journal/vaop/ncurrent/full/nn.3229.html
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- A24 Guillaume S MASSON et <u>Laurent U PERRINET</u>. « The behavioral receptive field underlying motion integration for primate tracking eye movements ». In: *Neuroscience and biobehavioral reviews* (21 mars 2012). ISSN: 1873-7528. DOI: 10.1016/j.neubiorev.2011.03.009. URL: http://view.ncbi.nlm.nih.gov/pubmed/21421006
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3 Chapitres d'ouvrage à comité de lecture

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- C2 Bruno CESSAC, Emmanuel DAUCÉ, <u>Laurent U PERRINET</u> et Manuel SAMUELIDES. « Introduction to Topics in Dynamical Neural Networks: From Large Scale Neural Networks to Motor Control and Vision ». In: *Topics in Dynamical Neural Networks: From Large Scale Neural Networks to Motor Control and Vision*. T. 142. The European Physical Journal Special Topics 1. Springer Verlag, 1er mars 2007, p. 1-5. DOI: 10.1140/epjst/e2007-00057-3. URL: http://www.springerlink.com/index/10.1140/epjst/e2007-00057-3
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4 Thèses, projets et ouvrages

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