Liste complète des publications

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1 Articles de revues en cours de révision

- A53 Giacomo Benvenuti, Sandrine Chemla, Arjan Boonman, <u>Laurent U Perrinet</u>, Guillaume S Masson et Frederic Chavane. « Anticipatory Responses along Motion Trajectories in Awake Monkey Area V1 ». en. In: bioRxiv (2020), p. 2020.03.26.010017. DOI: 10/ggqj77. URL: https://www.biorxiv.org/content/10.1101/2020.03. 26.010017v1 (visité le 31/03/2020)
- A52 Jean-Nicolas Jérémie et <u>Laurent U Perrinet</u>. « Ultra-Fast Image Categorization in Vivo and in Silico ». In : arXiv:2205.03635 [cs, q-bio] (2022). arXiv:2205.03635 [cs, q-bio]. (Visité le 11/05/2022)
- A51 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:

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2 Articles de revues internationales à comité de lecture

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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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- A38 Jonathan Vacher, Andrew Isaac Meso, <u>Laurent U Perrinet</u> et Gabriel Peyré. « Bayesian Modeling of Motion Perception using Dynamical Stochastic Textures ». In: *Neural Computation* (21 nov. 2018). DOI: 10.1162/neco_a_01142. URL: https://www.mitpressjournals.org/doi/abs/10.1162/neco_a_01142
- A37 Mina A Khoei, Guillaume S Masson et <u>Laurent U Perrinet</u>. « The flash-lag effect as a motion-based predictive shift ». In: *PLoS Computational Biology* 13.1 (26 jan. 2017), e1005068. DOI: 10.1371/journal.pcbi.1005068. URL: https://laurentperrinet.github.io/publication/khoei-masson-perrinet-17/
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- A36 Wahiba TAOUALI, Giacomo BENVENUTI, Pascal WALLISCH, Frédéric Y CHAVANE et Laurent U PERRINET. « Testing the odds of inherent vs. observed overdispersion in neural spike counts ». In: Journal of Neurophysiology 115.1 (22 jan. 2016), p. 434-444. ISSN: 1522-1598. DOI: 10.1152/jn.00194.2015. URL: http://www.ncbi.nlm.nih.gov/pubmed/26445864
- 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
- A33 <u>Laurent U PERRINET</u>, Rick A ADAMS et Karl FRISTON. « Active inference, eye movements and oculomotor delays ». In: *Biological Cybernetics* 108.6 (16 déc. 2014), p. 777-801. ISSN: 1432-0770. DOI: 10.1007/s00422-014-0620-8. URL: http://link.springer.com/article/10.1007%2Fs00422-014-0620-8

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- A26 Karl Friston, Rick A Adams, <u>Laurent U Perrinet</u> et Michael Breakspear. « Perceptions as Hypotheses : Saccades as Experiments ». In : *Frontiers in Psychology* 3 (2012). ISSN: 1664-1078. DOI: 10.3389/fpsyg.2012.00151. URL: http://dx.doi.org/10.3389/fpsyg.2012.00151
- A25 Rick A Adams, <u>Laurent U Perrinet</u> et Karl Friston. « Smooth Pursuit and Visual Occlusion: Active Inference and Oculomotor Control in Schizophrenia ». In: *PLoS ONE* 7.10 (26 oct. 2012), e47502+. DOI: 10.1371/journal.pone.0047502. URL: http://dx.doi.org/10.1371/journal.pone.0047502
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- A13 Frédéric V BARTHÉLEMY, <u>Laurent U PERRINET</u>, Eric CASTET et Guillaume S MASSON. « Dynamics of distributed 1D and 2D motion representations for short-latency ocular following ». In: *Vision research* 48.4 (1er fév. 2008), p. 501-522. ISSN: 0042-6989. DOI: 10.1016/j.visres.2007.10.020. URL: http://dx.doi.org/10.1016/j.visres.2007.10.020

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- A11 Sylvain FISCHER, Rafael REDONDO, <u>Laurent U PERRINET</u> et Gabriel CRISTÓBAL. « Sparse Approximation of Images Inspired from the Functional Architecture of the Primary Visual Areas ». In: *EURASIP Journal on Advances in Signal Processing* 2007.1 (2007), p. 090727-122. ISSN: 1687-6180. DOI: 10.1155/2007/90727. URL: http://dx.doi.org/10.1155/2007/90727
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- A3 <u>Laurent U Perrinet</u>, Arnaud Delorme, Simon J Thorpe et Manuel Samuelides. « Network of integrate-and-fire neurons using Rank Order Coding A: how to implement spike timing dependant plasticity ». In: *Neurocomputing* 38–40.1–4 (2001), p. 817-22. DOI: 10.1016/S0925-2312(01)00460-X
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- C6 <u>Laurent U Perrinet</u>. « From the retina to action: Dynamics of predictive processing in the visual system ». In: *The Philosophy and Science of Predictive Processing.* Sous la dir. de Dina Mendonça, Manuel Curado et Steven S Gouveia. Bloomsbury, 2020, p. 85-104. DOI: 10.5040/9781350099784.ch-005. URL: https://laurentperrinet.github.io/publication/perrinet-20/
- C5 Anna Montagnini, <u>Laurent U Perrinet</u> et Guillaume S Masson. « Visual motion processing and human tracking behavior ». In: *Biologically Inspired Computer Vision*. Sous la dir. de Gabriel Cristóbal, <u>Laurent U Perrinet</u> et Matthias S Keil. Wiley-VCH Verlag GmbH et Co. KGaA, 1^{er} nov. 2015. Chap. 12. DOI: 10.1002/9783527680863.ch12. URL: https://laurentperrinet.github.io/publication/montagnini-15-bicv/
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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 et ouvrages

- B4 Gabriel Cristóbal, <u>Laurent U Perrinet</u> et Matthias S Keil, éd. *Biologically Inspired Computer Vision*. Weinheim, Germany: Wiley-VCH Verlag GmbH et Co. KGaA, 7 oct. 2015. ISBN: 9783527680863. DOI: 10.1002/9783527680863. URL: http://onlinelibrary.wiley.com/book/10.1002/9783527680863
- B3 <u>Laurent U Perrinet</u> et Emmanuel Daucé, éd. *Proceedings of the second french conference on Computational Neuroscience, Marseille.* 1^{er} oct. 2008. URL: https://hal.archives-ouvertes.fr/NEUROCOMPO8
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- B1 <u>Laurent U Perrinet</u>. « Comment déchiffrer le code impulsionnel de la vision? Étude du flux parallèle, asynchrone et épars dans le traitement visuel ultra-rapide ». Thèse de doct. Université Paul Sabatier, Toulouse, France, 2003. URL: https://laurentperrinet.github.io/publication/perrinet-03-these

5 Actes de conférences internationales à comité de lecture

- 129. Antoine GRIMALDI, Camille BESNAINOU, Hugo LADRET et <u>Laurent U PERRINET</u>. « Learning heterogeneous delays of spiking neurons for motion detection ». In: *Proceedings of ICIP 2022*. Bordeaux, France, 16 oct. 2022. URL: https://2022.ieeeicip.org/
- 128. Antoine Grimaldi et <u>Laurent U Perrinet</u>. « Learning heterogeneous delays of Spiking Neurons for motion detection ». In: *Proceedings of the FENS Forum 2022*. S05-547. Poster Session 05 Section: Modeling the Brain. Paris (France), 12 juill. 2022

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