# Liste complète des publications

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#### 1 Articles de revues en cours de révision

A58 Ilias Rentzeperis, Luca Calatroni, <u>Laurent U Perrinet</u> et Dario Prandi. « Beyond

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- ell\_1 sparsecodinginV1 ». In : arXiv preprint arXiv :2301.10002 (2023)
- A57 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/10.1101/2020.03.26.010017 (visité le 31/03/2020)
- A56 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 : *Submitted* (2022)
- A55 Jean-Nicolas Jérémie, Emmanuel Daucé et <u>Laurent U Perrinet</u>. « Retinotopic mapping improves the reliability of image categorization ». In: *In preparation* (2022)
- A54 Antoine Grimaldi et <u>Laurent U Perrinet</u>. « Learning heterogeneous delays in a layer of spiking neurons for fast motion detection ». In: *Submitted* (2022)
- A53 Hugo Ladret, Nelson Cortes, Lamyae Ikan, Frédéric Chavane, Christian Casanova et <u>Laurent U Perrinet</u>. « Dynamical processing of orientation precision in the primary visual cortex ». In: in revision (23 fév. 2023). DOI: 10.1101/2021.03. 30.437692. URL: https://laurentperrinet.github.io/publication/ladret-23/
- A52 Antoine GRIMALDI, Victor BOUTIN, Sio-Hoi IENG, Ryad BENOSMAN et Laurent U PERRINET.

  « A Robust Event-Driven Approach to Always-on Object Recognition ». In:

  \*\*TechRxiv preprint\*\* (13 jan. 2022). DOI: 10.36227/techrxiv.18003077.v1.

  \*\*URL: https://www.techrxiv.org/articles/preprint/A\_robust\_event-driven\_approach\_to\_always-on\_object\_recognition/18003077/1 (visité le 13/01/2022)

#### 2 Articles de revues internationales à comité de lecture

2023

A51 Jean-Nicolas Jérémie et Laurent U Perrinet. « Ultra-Fast Image Categorization in biology and in neural models ». In : Vision (21 mars 2023). DOI : 10.3390/vision7020029. (Visité le 21/03/2023)

2022

- 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: Brain Sciences (23 déc. 2022). DOI: 10.3390/brainsci13010068. URL: https://laurentperrinet.github.io/publication/grimaldi-22-polychronies/
- A49 Victor BOUTIN, Angelo FRANCIOSINI, Frédéric Y CHAVANE et <u>Laurent U PERRINET</u>. « Pooling in a predictive model of V1 explains functional and structural diversity across species ». In: *PLoS Computational Biology* (18 juill. 2022). DOI: 10. 1371/journal.pcbi.1010270. URL: https://laurentperrinet.github.io/publication/franciosini-21
- 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)

2021

A46 Victor BOUTIN, Angelo FRANCIOSINI, Frédéric Y CHAVANE, Franck RUFFIER et Laurent U PERRINET. « Sparse Deep Predictive Coding captures contour integration capabilities of the early visual system ». In: *PLoS Computational Biology* (26 jan. 2021). DOI: 10.1371/journal.pcbi.1008629. URL: https://doi.org/10.1371/journal.pcbi.1008629

2020

- A45 Victor BOUTIN, Angelo FRANCIOSINI, Franck RUFFIER et <u>Laurent U PERRINET</u>. « Effect of top-down connections in Hierarchical Sparse Coding ». In: Neural Computation 32.11 (4 fév. 2020), p. 2279-2309. DOI: 10.1162/neco\_a\_01325. URL: https://laurentperrinet.github.io/publication/boutin-franciosini-ruffier-perrinet-20-feedback/
- A44 Emmanuel Daucé, Pierre Albigès et <u>Laurent U Perrinet</u>. « A dual foveal-peripheral visual processing model implements efficient saccade selection ». In: *Journal of Vision* 20.8 (5 juin 2020), p. 22-22. DOI: 10.1167/jov.20.8.22. URL: https://laurentperrinet.github.io/publication/dauce-20/
- A43 Chloé PASTUREL, Anna MONTAGNINI et <u>Laurent U PERRINET</u>. « Humans adapt their anticipatory eye movements to the volatility of visual motion properties ». In: *PLoS Computational Biology* (26 jan. 2020). DOI: 10.1371/journal.pcbi.1007438. URL: https://hal.archives-ouvertes.fr/hal-02394142

2019

- A42 <u>Laurent U PERRINET</u>. « An adaptive homeostatic algorithm for the unsupervised learning of visual features ». In: *Vision* 3.3 (2019), p. 47. DOI: 10.3390/vision3030047. URL: https://spikeai.github.io/HULK/
- 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
- A40 Sandrine CHEMLA, Alexandre REYNAUD, Matteo DIVOLO, Yann ZERLAUT, Laurent U PERRINET, Alain DESTEXHE et Frédéric Y CHAVANE. « Suppressive waves disambiguate the representation of long-range apparent motion in awake monkey V1 ». In: Journal of Neuroscience 2792 (18 mars 2019), p. 18. DOI: 10.1523/JNEUROSCI.2792-18.2019. URL: http://www.jneurosci.org/content/early/2019/03/18/JNEUROSCI.2792-18.2019 (visité le 27/07/2018)

2018

- A39 Jean-Bernard Damasse, <u>Laurent U Perrinet</u>, Laurent Madelain et Anna Montagnini. « Reinforcement effects in anticipatory smooth eye movements ». In: *Journal of Vision* 18.11 (1er oct. 2018), p. 14-14. ISSN: 1534-7362. DOI: 10.1167/18.11.14. URL: https://jov.arvojournals.org/article.aspx? articleid=2707670 (visité le 22/10/2018)
- 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

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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 Jens Kremkow, Laurent U Perrinet, Cyril Monier, Jose-Manuel Alonso, Ad M Aertsen, Yves Frégnac et Guillaume S Masson. « Push-Pull Receptive Field Organization and Synaptic Depression: Mechanisms for Reliably Encoding Naturalistic Stimuli in V1 ». In: Frontiers in Neural Circuits 10 (2016). ISSN: 1662-5110. DOI: 10.3389/fncir.2016.00037. URL: http://journal.frontiersin.org/article/10.3389/fncir.2016.00037/full

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A36 Wahiba Taouali, Giacomo Benvenuti, Pascal Wallisch, Frédéric Y Chavane et <u>Laurent U Perrinet</u>. « 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 Laurent U PERRINET, 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

A32 Mina A Khoei, Guillaume S Masson et <u>Laurent U Perrinet</u>. « Motion-based prediction explains the role of tracking in motion extrapolation ». In: *Journal of Physiology-Paris* 107.5 (1er nov. 2013), p. 409-420. ISSN: 0928-4257. DOI: 10. 1016/j.jphysparis.2013.08.001. URL: https://laurentperrinet.github.io/publication/khoei-13-jpp/

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

A30 Rodrigo Nava, J Victor Marcos, Boris Escalante-Ramirez, Gabriel Cristóbal, Laurent U Perrinet et Raúl S J Estépar. « Advances in Texture Analysis for Emphysema Classification ». In: Lecture Notes in Computer Science 8259 (2013). Sous la dir. de David Hutchison et al., p. 214-221. ISSN: 1611-3349. DOI: 10.1007/978-3-642-41827-3\_27. URL: http://dx.doi.org/10.1007/978-3-642-41827-3\_27

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

A28 <u>Laurent U Perrinet</u> et Guillaume S Masson. « Motion-based prediction is sufficient to solve the aperture problem ». In :  $Neural\ Computation\ 24.10\ (2012)$ , p. 2726-50

- A27 Paula S Leon, Ivo Vanzetta, Guillaume S Masson et <u>Laurent U Perrinet</u>. « Motion Clouds: Model-based stimulus synthesis of natural-like random textures for the study of motion perception ». In: *Journal of Neurophysiology* 107.11 (14 mars 2012), p. 3217-3226. ISSN: 1522-1598. DOI: 10.1152/jn.00737.2011. URL: http://dx.doi.org/10.1152/jn.00737.2011
- 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
- A24 Guillaume S Masson et <u>Laurent U Perrinet</u>. « The behavioral receptive field underlying motion integration for primate tracking eye movements ». In : *Neuroscience*

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- 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
- A23 Nicole Voges et <u>Laurent U Perrinet</u>. « Complex dynamics in recurrent cortical networks based on spatially realistic connectivities ». In: *Frontiers in Computational Neuroscience* 6 (2012). ISSN: 1662-5188. DOI: 10.3389/fncom.2012.00041. URL: https://laurentperrinet.github.io/publication/voges-12

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- A22 Jérôme Fleuriet, Sandrine Hugues, <u>Laurent U Perrinet</u> et Laurent Goffart. « Saccadic foveation of a moving visual target in the rhesus monkey ». In: *Journal of Neurophysiology* 105.2 (1<sup>er</sup> fév. 2011), p. 883-895. ISSN: 1522-1598. DOI: 10.1152/jn.00622.2010. URL: http://dx.doi.org/10.1152/jn.00622.2010
- A21 Amarender BOGADHI, Anna MONTAGNINI, Pascal MAMASSIAN, <u>Laurent U PERRINET</u> et Guillaume S MASSON. « Pursuing motion illusions : a realistic oculomotor framework for Bayesian inference ». In: *Vision research* 51.8 (22 avr. 2011), p. 867-880. ISSN: 1878-5646. DOI: 10.1016/j.visres.2010.10.021. URL: http://dx.doi.org/10.1016/j.visres.2010.10.021

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- A20 <u>Laurent U Perrinet</u>. « Role of homeostasis in learning sparse representations ». In: *Neural Computation* 22.7 (17 juill. 2010), p. 1812-36. ISSN: 1530-888X. DOI: 10.1162/neco.2010.05-08-795. URL: https://doi.org/10.1162/neco.2010.05-08-795.
- A19 Emmanuel DAUCÉ et <u>Laurent U PERRINET</u>. « Computational Neuroscience, from Multiple Levels to Multi-level ». In: *Journal of Physiology-Paris* 104.1–2 (2010), p. 1-4. DOI: 10.1016/j.jphysparis.2009.11.001. URL: http://dx.doi.org/10.1016/j.jphysparis.2009.11.001
- A18 Nicole Voges et <u>Laurent U Perrinet</u>. « Phase space analysis of networks based on biologically realistic parameters ». In: *Journal of Physiology-Paris* 104.1-2 (10 nov. 2010), p. 51-60. ISSN: 1769-7115. DOI: 10.1016/j.jphysparis.2009.11.004. URL: http://dx.doi.org/10.1016/j.jphysparis.2009.11.004
- A17 Jens Kremkow, <u>Laurent U Perrinet</u>, Guillaume S Masson et Ad M Aertsen. «Functional consequences of correlated excitatory and inhibitory conductances in cortical networks ». In: *Journal of Computational Neuroscience* 28.3 (1er juin 2010), p. 579-94. DOI: 10.1007/s10827-010-0240-9. URL: http://www.ncbi.nlm.nih.gov/pubmed/20490645
- A16 Khaled Masmoudi, Marc Antonini, Pierre Kornprobst, Laurent U Perrinet A novel bio-inspired static image compression scheme for noisy data transmission over low-bandwidth channels. *Acoustics Speech and Signal Processing (ICASSP)*, 2010.

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- A15 Andrew P DAVISON, Daniel BRUDERLE, Jochen EPPLER, Jens KREMKOW, Eilif MULLER, Dejan PECEVSKI, <u>Laurent U PERRINET</u> et Pierre YGER. « PyNN: A Common Interface for Neuronal Network Simulators ». In: *Frontiers in Neuroinformatics* 2 (2008), p. 11. ISSN: 16625196. DOI: 10.3389/neuro.11.011.2008. URL: http://dx.doi.org/10.3389/neuro.11.011.2008
- A14 Laurent U Perrinet. « Adaptive Sparse Spike Coding: applications of Neuroscience to the compression of natural images ». In: Optical and Digital Image Processing Conference 7000 Proceedings of SPIE Volume 7000, 7 11 April 2008. Sous la dir. de Gabriel C. Peter Schelkens. T. 7000. 1. SPIE, 2008
- 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

2007

A12 Sylvain FISCHER, Filip ŠROUBEK, <u>Laurent U PERRINET</u>, Rafael REDONDO et Gabriel CRISTÓBAL. « Self-Invertible 2D <u>Log-Gabor Wavelets</u> ». In: *International Journal of Computer Vision* 75.2 (13 jan. 2007), p. 231-246. ISSN: 1573-1405. DOI: 10.1007/s11263-006-0026-8. URL: http://dx.doi.org/10.1007/s11263-006-0026-8

- 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
- A10 Anna Montagnini, Pascal Mamassian, <u>Laurent U Perrinet</u>, Eric Castet et Guillaume S Masson. « Bayesian modeling of dynamic motion integration ». In: *Journal of Physiology-Paris* 101.1-3 (1<sup>er</sup> jan. 2007), p. 64-77. ISSN: 0928-4257. DOI: 10.1016/j.jphysparis.2007.10.013. URL: http://dx.doi.org/10.1016/j.jphysparis.2007.10.013
- A9 <u>Laurent U Perrinet</u> et Guillaume S Masson. « Modeling spatial integration in the ocular following response using a probabilistic framework ». In: *Journal of Physiology-Paris* 101.1–3 (2007), p. 46-55. DOI: 10.1016/j.jphysparis.2007.10.011. URL: http://dx.doi.org/10.1016/j.jphysparis.2007.10.011

A8 <u>Laurent U Perrinet</u>. « Finding Independent Components using spikes: a natural result of Hebbian learning in a sparse spike coding scheme ». In: *Natural Computing* 3.2 (1<sup>er</sup> jan. 2004), p. 159-75. DOI: 10.1023/B:NACO.0000027753.27593.a7. URL: http://dx.doi.org/10.1023/B:NACO.0000027753.27593.a7

A7 Laurent U PERRINET. « Feature detection using spikes: the greedy approach ». In: Journal of Physiology-Paris 98.4-6 (1er juill. 2004), p. 530-9. DOI: 10.1016/j.jphysparis.2005.09.012. URL: http://dx.doi.org/10.1016/j.jphysparis.2005.09.012

A6 <u>Laurent U Perrinet</u>, Manuel Samuelides et Simon J Thorpe. « Coding static natural images using spiking event times: do neurons cooperate? » In: *IEEE Transactions on Neural Networks* 15.5 (1er sept. 2004). Special issue on 'Temporal Coding for Neural Information Processing', p. 1164-75. DOI: 10.1109/TNN.2004.833303. URL: http://dx.doi.org/10.1109/TNN.2004.833303

A5 Laurent U Perrinet, Manuel Samuelides et Simon J Thorpe. « Emergence of filters from natural scenes in a sparse spike coding scheme ». In: *Neurocomputing* 58–60.C (2003). Special issue: Computational Neuroscience: Trends in Research 2004 - Edited by E. De Schutter, p. 821-6. DOI: 10.1016/j.neucom.2004.01.133. URL: http://dx.doi.org/10.1016/j.neucom.2004.01.133

A4 <u>Laurent U Perrinet</u>, Manuel Samuelides et Simon J Thorpe. « Sparse spike coding in an asynchronous feed-forward multi-layer neural network using matching pursuit ». In: *Neurocomputing* 57 (1er mars 2004). Special issue: New Aspects in Neurocomputing: 10th European Symposium on Artificial Neural Networks 2002 - Edited by T. Villmann, p. 125-134. ISSN: 0925-2312. DOI: 10.1016/j.neucom.2004.01.010. URL: http://dx.doi.org/10.1016/j.neucom.2004.01.010

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

- A2 Arnaud Delorme, <u>Laurent U Perrinet</u>, Simon J Thorpe et Manuel Samuelides. « Network of integrate-and-fire neurons using Rank Order Coding B: spike timing dependant plasticity and emergence of orientation selectivity ». In: *Neurocomputing* 38–40.1–4 (2001), p. 539-45. DOI: 10.1.1.18.4990. URL: http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.18.4990
- A1 <u>Laurent U PERRINET</u> et Manuel SAMUELIDES. « Coherence detection in a spiking neuron via Hebbian learning ». In: *Neurocomputing* 44–46.C (1<sup>er</sup> juin 2002), p. 817-22. DOI: 10.1016/S0925-2312(02)00374-0. URL: http://dx.doi.org/10.1016/S0925-2312(02)00374-0

2004

2003

2002

## 3 Chapitres d'ouvrage à comité de lecture

- 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<sup>er</sup> nov. 2015. Chap. 12. DOI: 10.1002/9783527680863.ch12. URL: https://laurentperrinet.github.io/publication/montagnini-15-bicv/
- C4 <u>Laurent U Perrinet</u>. « Sparse Models for Computer Vision ». 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, 1er nov. 2015. Chap. 13. ISBN: 9783527680863. DOI: 10.1002/9783527680863.ch14. URL: http://onlinelibrary.wiley.com/doi/10.1002/9783527680863.ch14/summary
- C3 Gabriel Cristóbal, <u>Laurent U Perrinet</u> et Matthias S Keil. « Introduction ». 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<sup>er</sup> nov. 2015. Chap. 1. DOI: 10.1002/9783527680863.chl. URL: http://bicv.github.io/chap1/
- 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
- C1 <u>Laurent U Perrinet</u>. « Dynamical Neural Networks : modeling low-level vision at short latencies ». 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. Berlin / Heidelberg : Springer Verlag, 1<sup>er</sup> mars 2007, p. 163-225. DOI: 10.1140/epjst/e2007-00061-7

## 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.* 1er oct. 2008. URL: https://hal.archives-ouvertes.fr/NEUROCOMP08
- B2 Bruno CESSAC, Emmanuel DAUCÉ, <u>Laurent U PERRINET</u> et Manuel SAMUELIDES. Topics in Dynamical Neural Networks: From Large Scale Neural Networks to Motor Control and Vision. T. 142. The European Physical Journal (Special Topics) 1. Berlin / Heidelberg: Springer Verlag, 1er mars 2007
- 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

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