Publications as of August 20, 2024

Journals (peer-reviewed)

[1] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. "Explaining the Neuroevolution of Fighting Creatures Through Virtual fMRI". In: *Artificial Life* 29.1 (2023), pp. 66–93. ISSN: 1064-5462. DOI: 10.1162/artl_a_00389.

International conferences (peer-reviewed)

[2] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. "Specialization or Generalization: Investigating NeuroEvolutionary Choices via Virtual fMRI". In: *ALIFE 2024: Proceedings of the 2024 Artificial Life Conference*. MIT Press, July 2024. DOI: 10.1162/isal_a_00817.

[3] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. "Spontaneous Modular NeuroEvolution Arising from a Life/Dinner Paradox". In: *The 2021 Conference on Artificial Life*. Cambridge, MA: MIT Press, 2021, p. 95. DOI: 10.1162/isal_a_00431. Presentation: https://vimeo.com/godinduboisalife/alife2021main.

[4] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. "Beneficial Catastrophes: Leveraging Abiotic Constraints through Environment-Driven Evolutionary Selection". In: *2020 IEEE Symposium Series on Computational Intelligence (SSCI)*. 2020, pp. 94–101. DOI: 10.1109/SSCI47803.2020.9308411.

[5] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. "Self-Sustainability Challenges of Plants Colonization Strategies in Virtual 3D Environments". In: *Applications of Evolutionary Computation*. Ed. by P. Kaufmann and P. A. Castillo. Cham: Springer International Publishing, 2019, pp. 377–392. ISBN: 978-3-030-16692-2. DOI: 10.1007/978-3-030-16692-2_25.

[6] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. "Speciation under Changing Environments". In: *ALIFE 19*. Vol. 31. Cambridge, MA: MIT Press, 2019, pp. 349–356. ISBN: 978-0-262-35844-6. DOI: 10.1162/isal_a_00186. Presentation: https://vimeo.com/godinduboisalife/alife2019.

Workshops

[7] K. Godin-Dubois et al. "Interactive Embodied Evolution for Socially Adept Artificial General Creatures". In: *Evolution of Things Workshop at the ALife 2024 Conference*. arXiv, July 2024. DOI: 10.48550/arXiv.2407.21357.

[8] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. "Emergent Communication for Coordination in Teams of Embodied Agents". In: *4th International Workshop on Agent-Based Modelling of Human Behaviour (ALife2022)*. 2022.

[9] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. "On the Benefits of Emergent Communication for Threat Appraisal". In: *3rd International Workshop on Agent-Based Modelling of Human Behaviour*. Online, 2021. Presentation: https://vimeo.com/godinduboisalife/abmhub2021.

[10] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. "APOGeT: Automated Phylogeny Over Geological Timescales". In: *MethAL Workshop at ALife 2019*. 2019. DOI: 10.48550/arXiv.2407.21412.

[11] K. Dubois, S. Cussat-Blanc, and Y. Duthen. "Towards an Artificial Polytrophic Ecosystem". In: *Morphogenetic Engineering Workshop, at the European Conference on Artificial Life (ECAL) 2017 September 4*. 2017.

Posters

[12] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. "Studying Long Term Interactions between Plants and Their Environment". In: *Alife 2018*. Tokyo, 2018. DOI: 10.13140/RG.2.2.27553.97125.

Oral presentations

[13] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. *Splinoids: First Steps out of EDEnS*. Talk. Montreal (Virtual), 2020.

Softwares and datasets

[14] K. Godin-Dubois, K. Miras, and A. V. Kononova. *AMaze: Fully Discrete Training with Three Regimes (Direct, Scaffolding, Interactive) and Two Algorithms (A2C, PPO)*. Dataset. Apr. 2024. DOI: 10.5281/zenodo.10622914.

[15] K. Godin-Dubois, K. Miras, and A. V. Kononova. *AMaze: A Lightweight Benchmark Generator for Sighted Agents*. Zenodo. Software. Apr. 2024. DOI: 10.5281/ZENODO.10907939.

Thesis

[16] K. Godin-Dubois. "Environment-Driven Speciation: Long-Term Interactions in Artificial Plant Communities". PhD thesis. Doctoral school of Mathematics, Computer Science and Telecommunications (Toulouse, France), 2020. URL: http://www.theses.fr/2020TOU10026/document.