

REFERENCES

- [1] Larissa Albantakis, Arend Hintze, Christof Koch, Christoph Adami, and Giulio Tononi. 2014. Evolution of integrated causal structures in animats exposed to environments of increasing complexity. *PLoS Comput Biol* 10, 12 (2014), e1003966.
- [2] Larissa Albantakis and Giulio Tononi. 2015. The Intrinsic Cause-Effect Power of Discrete Dynamical Systems—From Elementary Cellular Automata to Adapting Animats. *Entropy* 17, 8 (jul 2015), 5472–5502. DOI : <http://dx.doi.org/10.3390/e17085472>
- [3] Samuel Chapman, David B Knoester, Arend Hintze, and Christoph Adami. 2013. Evolution of an artificial visual cortex for image recognition. In *ECAL*. 1067–1074.
- [4] Jeffrey A Edlund, Nicolas Chaumont, Arend Hintze, Christof Koch, Giulio Tononi, and Christoph Adami. 2011. Integrated information increases with fitness in the evolution of animats. *PLoS Comput Biol* 7, 10 (2011), e1002236.
- [5] Laura M Grabowski, David M Bryson, Fred C Dyer, Charles Ofria, and Robert T Pennock. 2010. Early Evolution of Memory Usage in Digital Organisms.. In *ALIFE*. The MIT Press, 224–231.
- [6] Laura M Grabowski and Javier A Magana. 2014. Building on Simplicity: Multi-stage Evolution of Digital Organisms. In *ALIFE*. The MIT Press, 113–120.
- [7] Ryan G James and James P Crutchfield. 2016. Multivariate Dependence Beyond Shannon Information. *arXiv preprint arXiv:1609.01233* (2016).
- [8] Lars Marsteller, Arend Hintze, and Christoph Adami. 2013. The evolution of representation in simple cognitive networks. *Neural computation* 25, 8 (2013), 2079–2107.
- [9] Masafumi Oizumi, Larissa Albantakis, and Giulio Tononi. 2014. From the Phenomenology to the Mechanisms of Consciousness: Integrated Information Theory 3.0. *PLoS Computational Biology* 10, 5 (may 2014), e1003588. DOI : <http://dx.doi.org/10.1371/journal.pcbi.1003588>
- [10] Randal S Olson, Arend Hintze, Fred C Dyer, David B Knoester, and Christoph Adami. 2013. Predator confusion is sufficient to evolve swarming behaviour. *Journal of The Royal Society Interface* 10, 85 (2013), 20130305.
- [11] Judea Pearl. 2014. *Probabilistic reasoning in intelligent systems: networks of plausible inference*. Morgan Kaufmann.