

# Wim Hordijk, Ph.D.

## Publications

### Journals and proceedings

- 64.** W. Hordijk, J. Naylor, N. Krasnogor and H. Fellermann. Population dynamics of autocatalytic sets in a compartmentalized spatial world. *Life* 8:33, 2018.
- 63.** R. Cazzolla Gatti, B. Fath, W. Hordijk, S. Kauffman and R. Ulanowicz. Niche emergence as an autocatalytic process in the evolution of ecosystems. *Journal of Theoretical Biology* 454:110–117, 2018.
- 62.** W. Hordijk, S. Shichor and G. Ashkenasy. The influence of modularity, seeding, and product inhibition on peptide autocatalytic network dynamics. *ChemPhysChem* 19:2437–2444, 2018.
- 61.** W. Hordijk, M. Steel and P. Dittrich. Autocatalytic sets and chemical organizations: Modeling self-sustaining reaction networks at the origin of life. *New Journal of Physics* 20:015011, 2018.
- 60.** W. Hordijk. Autocatalytic confusion clarified. *Journal of Theoretical Biology* 435:22–28, 2017.
- 59.** W. Hordijk. Autocatalytic sets and RNA secondary structure. *Journal of Molecular Evolution* 84(4):153–158, 2017.
- 58.** W. Hordijk and M. Steel. Chasing the tail: The emergence of autocatalytic networks. *BioSystems* 152:1–10, 2017.
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- 56.** V. Di Cola et al. ecospat: an R package to support spatial analyses and modeling of species niches and distributions. *Ecography* 40(6):774–787, 2017.
- 55.** W. Hordijk. Evolution: Limited & predictable or unbounded & lawless? *Biological Theory* 11(4):187–191, 2016.
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- 49.** W. Hordijk, A. Hordijk and B. Heidergott. A genetic algorithm for finding good balanced sequences in a customer assignment problem with no state information. *Asia-Pacific Journal of Operational Research* 32(3):1550015, 2015.
- 48.** F. L. Sousa, W. Hordijk, M. Steel and W. F. Martin. Autocatalytic sets in *E. coli* metabolism.

*Journal of Systems Chemistry* 6:4, 2015.

47. W. Hordijk and M. Steel. Autocatalytic sets and boundaries. *Journal of Systems Chemistry* 6:1, 2015.
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45. W. Hordijk and M. Steel. Conditions for evolvability of autocatalytic sets: A formal example and analysis. *Origins of Life and Evolution of Biospheres* 44(2):111–124 , 2014.
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- 24.** P. Vajda, A. E. Eiben and W. Hordijk. Parameter control methods for selection operators in genetic algorithms. In G. Rudolph et al. (eds.), *Parallel Problem Solving from Nature — PPSN X*, Springer, pp. 620–630, 2008.
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- 14.** T. Biyikoglu, W. Hordijk, J. Leydold, T. Pisanski and P. F. Stadler. Graph laplacians, nodal domains, and hyperplane arrangements. *Linear Algebra and its Applications* 390:155–174, 2004.
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## Theses

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