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PII: S0016-3287(17)30216-1
DOI: https://doi.org/10.1016/j.futures.2018.03.003
Reference: JFTR 2286

To appear in:

Received date: 30-5-2017
Revised date: 11-11-2017
Accepted date: 1-3-2018

Please cite this article as: Diego Gonzalez-Rodriguez, Jose Rodolfo Hernandez-Carrion, Self-Organized Linguistic Systems: from traditional AI to bottom-up generative processes, Futures https://doi.org/10.1016/j.futures.2018.03.003

Self-Organized Linguistic Systems: from traditional AI to bottom-up generative processes

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Highlights

- This work seeks to explore the potential of bottom-up generative processes in the context of *conlang* production
- This paper describes the basis of a new field of research: *Self-Organized Linguistic Systems* or *SOLS*
- We explore the intersection of self-organized systems and constructed languages.
- We enunciate the basis of the *SOLS* approach, a framework for the creation of self-generated artificial languages and may serve as a starting point for the development of context-dependent or domain-specific languages.
- *This work* acknowledges that the development of *conlangs* can happen in artificial societies of simple agents, as the output of social interactions in computational simulations under the agent-based modelling paradigm.

About the Authors

Diego Gonzalez-Rodriguez is PhD in Information Science, MS in Artificial Intelligence and Engineer in Computer Systems. He is the founder of the SciArt Lab, a digital R&D laboratory for the open exploration of Science, Art and Technology. He has been Research Fellow at the P2P Lab, a spin-off of Tallin University of Technology and the P2P Foundation and has collaborated with research groups such as the Global Brain Institute of the Free University of Brussels, the Critical Making Lab at the University of Toronto, the