

Record in the Commens Bibliography. Retrieved from http://www.commens.org/bibliography/collection_article/loula-angelo-gudwin-ricardo-queiroz-joao-2010-emergence-indexical, 31.01.2025.

Type: Article in Edited Collection

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Title: On the Emergence of Indexical and Symbolic Interpretation in Artificial Creatures, or What Is This I Hear?

Year: 2010

Editor: Fellermann, Harold

Volume Title: Proceedings of the Twelfth International Conference on the Synthesis and Simulation of Living Systems

Place: Cambridge, Massachusetts

Publisher: MIT Press

Pages: 862-868

Abstract: Communication processes rely on the production and interpretation of representations, thus an important issue is to understand what types of representations are involved during the emergence of interpretations. Here we present an experiment to evaluate conditions for the emergence of interpretations of different representation types. To design our experiment, we follow biological inspirations and a theoretical framework of representation processes. Our results show that different interpretations process can emerge depending on the adaptation cost of cognitive traits and on the availability of cognitive shortcuts.

Language: English

Links: On the emergence of indexical and symbolic interpretation in artificial creatures
Artificial Life XII