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Brain Theory from Artificial Life

Guest Editors:

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Deadline for manuscript submissions:
closed (20 February 2023)

Message from the Guest Editors

The main theme of this Special Issue is brain theory from artificial life research. For the past three decades, brain theory in the field of artificial life has been discussed in terms of genetic algorithms, neural networks, chaos theory, and sensorimotor association.

In this Special Issue, we invite research that sheds light on new principles, techniques, and applications of brain theory, or, in other words, perception and corporeality from artificial life. In particular, we welcome research from new information-theoretic perspectives, such as Friston's free-energy principle, Tononi's integrated information theory, and empowerment theory.

- sensory-motor contingency
- evolutionary theory
- genetic algorithm
- deep neural networks
- chaos theory
- free-energy principle
- active inference
- integrated information theory
- empowerment

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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