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Information Theory and Cognitive Agents

Guest Editors:

Dr. Domenico Maisto

Institute of Cognitive Sciences and Technologies (ISTC), National Research Council of Italy, via S. Martino della Battaglia 44, 00185 Rome, Italy

Prof. Dr. Daniel Polani

Department of Computer Science, University of Hertfordshire, Hatfield AL10 9AB, UK

Deadline for manuscript submissions:

closed (15 December 2023)

Message from the Guest Editors

This Special Issue aims to collect contributions that challenge those limitations by proposing new models of cognitive agents in which perception, information processing, learning, and action—in their separated or procedurally connected nature—are addressed using one among the differing IT declinations: Shannon's communication theory, control theory, statistical physics, probabilistic inference, and algorithmic complexity.

Submitted proposals may refer to cognitive agents as computational emulations of specific skills, such as intelligence, engineered to solve complex problems in specific domains, or as frameworks designed to illustrate conjectures and hypotheses about specific aspects of cognition.



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Special Issue



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Editor-in-Chief

Prof. Dr. Kevin H. Knuth

Department of Physics, University
at Albany, 1400 Washington
Avenue, Albany, NY 12222, USA

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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Entropy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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