Special Issue

Information Bottleneck: Theory and Applications in Deep Learning

Message from the Guest Editors

Computational Intelligence (CI) concerns information processing with biologically or linguistically inspired methods, such as neural networks, evolutionary computing, fuzzy logic, probabilistic and Bayesian methods, and learning theory. In contrast to this method-centered definition of CI, information theory concerns the fundamental limits of information processing, irrespective of the employed method. Nevertheless, information theory offers a great selection of quantities capturing statistical dependencies and similarities that have found applications as diverse as the analysis of cognitive processes and the design of man-made systems. We wish to mention that the concurrent Special Issue "Information–Theoretic Approaches in Deep Learning" has a potential overlap with ours. We therefore reserve the right to prescreen submissions focused on neural networks and forward them to this other Special Issue in case of a better fit.

Guest Editors

Dr. Bernhard C. Geiger

1. Area of Methods & Algorithms for Artificial Intelligence, Know-Center GmbH, 8010 Graz, Austria
2. Signal Processing and Speech Communication Laboratory, Graz University of Technology, 8010 Graz, Austria

Prof. Dr. Gernot Kubin

Signal Processing and Speech Communication Laboratory, Graz University of Technology, Graz, Austria

Deadline for manuscript submissions

closed (31 July 2020)

Entropy

MDPI

About the Journal

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.

Entropy is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

Author Benefits

Open Access:
free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:
indexed within Scopus, SCIE (Web of Science), Inspec, PubMed, PMC, Astrophysics Data System, and other databases.

Journal Rank:
JCR - Q2 (Physics, Multidisciplinary) / CiteScore - Q1 (Mathematical Physics)