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Data Compression and Complexity

Guest Editors:

Dr. Nithin Nagaraj

National Institute of Advanced Studies (NIAS), Indian Institute of Science Campus, Bengaluru, Karnataka, India

Dr. Kushal Shah

Indian Institute of Science Education and Research (IISER) Bhopal, Madhya Pradesh, India

Prof. Dr. Jerry D. Gibson

Department of Electrical and Computer Engineering, University of California, Santa Barbara, CA 93106-9560, USA

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Message from the Guest Editors

This Special Issue aims to be a forum for researchers from diverse disciplines to present new insights into the theory and practice of data compression and to explore the rich interplay between info-theoretic methods and complex systems. Apart from novel algorithms that push the frontiers of state-of-the-art performance in data compression, we also welcome applications involving time series analysis, model selection, causal inference, and machine learning in real-world natural and humanengineered complex systems.

- Data compression (lossless and lossy)
- Universal source coding
- Compression complexity
- Complex systems
- Time series analysis
- Entropy coding
- Information-theoretic analysis
- Model selection
- Dynamical complexity
- Causal inference
- Machine learning and data compression









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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, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/entropy entropy@mdpi.com %@Entropy_MDPI