Special Issue

Advances in Data Mining and Coding Theory for Data Compression

Message from the Guest Editors

Data mining is an important research field for revealing the structure of data, anomalies, rules, associations, clusters, and classes hidden within data sets, thereby making them understandable for further use. Data mining can be performed on structured, unstructured, and semi-structured data originating from natural, social, and artificial systems. The extracted knowledge can also be used in coding theory for more efficient data compression to encode information that requires less storage space than the original representation. The aim of this Special Issue is to highlight the research topics of data mining and coding theory for data compression in all types of natural, artificial, social, and other complex systems. Researchers are encouraged to present the most recent developments in both theoretical and experimental studies aimed at better understanding different structured, unstructured, and semi-structured data for more efficient data compression. Keywords:

- big data
- network data
- data mining
- learning
- clustering
- community detection
- data compression
- machine learning
- information science
- coding theory

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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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