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## Information Theory in Biomedical Data Mining

Guest Editor:

**Prof. Dr. Małgorzata  
Syczewska**

Department of Rehabilitation,  
Children's Memorial Health  
Institute, 04-730 Warszawa,  
Poland

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**closed (20 March 2022)**

### Message from the Guest Editor

The rapid development of medicine and biomedical sciences provides us with an increasing volume of collected data, which are difficult to analyze and model. In standard models, the researchers define the segments of data and the connections they analyze, based on their experience, physiology, or previous studies, but such an approach, although widely used, bears the risk of losing vital pieces of information, and in some cases, the conclusions are definitely less meaningful than they could be. Methods of data mining can be applied to big data sets of collected biomedical data bases, such as machine learning, various classification trees algorithms, genetic algorithms, nonlinear relationships in complex models, etc. However, information theory methods are also gradually more widely used to establish causal connections in big data sets and to get more insight into the nature of the phenomena described by the biomedical data. The growing interest in such studies is what has inspired this Special Issue of *Entropy*.



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# Special Issue



# entropy



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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  
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