



entropy



Special Issue Reprint

Statistical Inference from High Dimensional Data

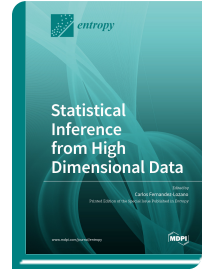
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- Real-world problems can be high-dimensional, complex, and noisy
- More data does not imply more information
- Different approaches deal with the so-called curse of dimensionality to reduce irrelevant information
- A process with multidimensional information is not necessarily easy to interpret nor process
- In some real-world applications, the number of elements of a class is clearly lower than the other. The models tend to assume that the importance of the analysis belongs to the majority class and this is not usually the truth
- The analysis of complex diseases such as cancer are focused on more-than-one dimensional omic data
- The increasing amount of data thanks to the reduction of cost of the high-throughput experiments opens up a new era for integrative data-driven approaches
- Entropy-based approaches are of interest to reduce the dimensionality of high-dimensional data



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