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High-dimensional statistics - Wikipedia

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deal with the “curse of dimensionality” [Bel61], which, in general terms, is the widely observed phenomenon that data analysis techniques (including clustering), which work well at lower dimensions, often perform poorly as the dimensionality of the analyzed data increases.

The Challenges of Clustering High

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In this article, I summarise Peter Hall's contributions to high-dimensional data, including their geometric representations and variable selection methods based on ranking. I also discuss his work on

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classification problems, concluding with some personal reflections on my own interactions with him.

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such as the three-dimensional physical space of everyday experience. The expression was coined by Richard E. Bellman when considering problems in dynamic programming.

Curse of dimensionality - Wikipedia

High-Dimensional Data Analysis in Cancer Research, edited by Xiaochun Li and

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Ronghui Xu, is a collective effort to showcase statistical innovations for meeting the challenges and opportunities uniquely presented by the analytical needs of high-dimensional data in cancer research, particularly in genomics and proteomics.

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subspace analysis and dynamic projections. We assume the high-dimensional dataset can be represented by a mixture of low-dimensional linear subspaces with mixed dimensions, and provide a method to reliably estimate the intrinsic dimension and linear basis of each subspace extracted from the subspace clustering.

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properties for nonlocal priors in generalized linear models have not been investigated. In this paper, we consider a hierarchical generalized linear ...

Variable Selection Using Nonlocal Priors in High ...

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