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In statistical theory, the field of high-dimensional statistics studies data whose dimension is larger than dimensions considered in classical multivariate analysis. High-dimensional statistics relies on the theory of random vectors. In many applications, the dimension of the data vectors may be larger than the sample size.

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High-dimensional statistics - Wikipedia

High-dimensional data, including genetic data, are becoming increasingly available as data collection technology evolves. Behavioral scientists need powerful, effective analytic methods to glean maximum scientific insight from these data.

High-Dimensional Data Analysis - The Methodology Center

If you're interested in data analysis and interpretation, then this is the data science course for you. We start by learning the mathematical definition of distance and use this to motivate the use of the singular value decomposition (SVD) for dimension reduction of high-dimensional data sets, and multi-dimensional scaling and its connection ...

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High-Dimensional Data Analysis | Harvard University

The conjunction of large data set size, high dimensional data sets, and high-order algorithmic complexity makes exploratory data analysis and data mining infeasible for a number of data sets. Wegman (1995) argues that there are two significant thresholds when

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exploring data sets.

High Dimensional Data - an overview | ScienceDirect Topics

A variety of topics such as functional data analysis, image processing, multilinear algebra and tensor analysis, and regularization in high-dimensional regression and its applications including low rank and sparse learning is covered.

ISYE 8803: Topics on High-Dimensional Data Analytics ...

In all cases, the approaches to clustering high dimensional data must 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 Dimensional Data

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A new tool to visualize high-dimensional single-cell data, when integrated with mass cytometry, reveals phenotypic heterogeneity of human leukemia. New high-dimensional, single-cell technologies ...

viSNE enables visualization of high dimensional single ...

Mathematicians are ideally prepared for appreciating the abstract issues involved in finding patterns in such high-dimensional data. Two of the most influential principles in the coming century will be principles originally discovered and cultivated by mathematicians: the blessings of dimensionality and the curse of dimensionality.

[PDF] High-Dimensional Data Analysis : The Curses and ...

In this article, I summarise Peter Hall's contributions to high-dimensional data, including their geometric representations and variable selection

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methods based on ranking. I also discuss his work on classification problems, concluding with some personal reflections on my own interactions with him.

Samworth : Peter Hall's work on high-dimensional data and ...

The big data era increases the probability of data outliers, and this leads to an urgent need of robust statistical methods, as described here for the high-dimensional regression problem.

Robust linear regression for high-dimensional data: An ...

The curse of dimensionality refers to various phenomena that arise when analyzing and organizing data in high-dimensional spaces that do not occur in low-dimensional settings such as the three-dimensional physical space of everyday experience. The expression was coined by Richard E. Bellman when considering problems in dynamic

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programming. Applied

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Curse of dimensionality - Wikipedia

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

Visual Exploration of High-

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Dimensional Data through ...

High-dimensional variable selection is an important research topic in modern statistics. While methods using nonlocal priors have been thoroughly studied for variable selection in linear regression, the crucial high-dimensional model selection 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 ...

Data on health status of patients can be high-dimensional (100+ measured/recorded parameters from blood analysis, immune system status, genetic background, nutrition, alcohol-tobacco-...

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