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Statistical inference is the science of drawing conclusions about some system from data. In modern signal processing and machine learning, inference is done in very high dimension: very many unknown characteristics about the system have to be deduced from a lot of high-dimensional noisy data. This "high-dimensional regime" is reminiscent of statistical mechanics, which aims at describing the ...

~~[2010.14863] High dimensional inference: a statistical~~

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High dimensional statistical inference and random matrices 311 with probability density function for $X = (X_1, \dots, X_p)$ given by $f(X) = \frac{1}{(2\pi)^{p/2} |\Sigma|^{1/2}} \exp\left\{-\frac{1}{2}(X - \mu)^T \Sigma^{-1}(X - \mu)\right\}$. The observed sample is assumed to consist of n independent draws X_1, \dots, X_n from $X \sim N_p(\mu, \Sigma)$, collected into a $p \times n$ data matrix $X = [X_1 \dots X_n]$. When

~~High dimensional statistical inference and random matrices~~

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

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theory of random vectors. In many applications, the dimension of the data vectors may be larger than the sample size.

~~High-dimensional statistics — Wikipedia~~

High-dimensional vector autoregression with measurement error is frequently encountered in a large variety of scientific and business applications. In this article, we study statistical inference of the transition matrix under this model. While there has been a large body of literature studying sparse estimation of the transition matrix,

~~Statistical Inference for High Dimensional Vector ...~~

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This thesis considers estimation and statistical inference for high dimensional model with constrained parameter space. Due to the recent development of data storage and computing technology, it is extremely common for researchers to face a high dimensional problem in practical applications, ranging from health-care, neural imaging, genetic studies, etc.

~~Estimation and Statistical Inference for High Dimensional ...~~

INFERENCE FOR LINEAR MODELS We consider first a high-dimensional linear model, while extensions are discussed in Section 3: (2.1) $Y = X\beta_0 + \varepsilon$, with $n \times p$ fixed or random design matrix X , $n \times 1$ response and

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error vectors Y and ε , respectively. The errors are assumed to be independent of X (for random design) with i.i.d. entries having $E[\varepsilon_i] = 0$.

~~High Dimensional Inference: Confidence Intervals, p-Values ...~~

Over the past decade, statistics have undergone drastic changes with the development of high-dimensional statistical inference. Indeed, on each individual, more and more features are measured to a point that their number usually far exceeds the number of observations. This is the case in biology and

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~~High Dimensional Statistics — MIT Mathematics~~

'Non-asymptotic, high-dimensional theory is critical for modern statistics and machine learning. This book is unique in providing a crystal clear, complete and unified treatment of the area. With topics ranging from concentration of measure to graphical models, the author weaves together probability theory and its applications to statistics.

~~High Dimensional Statistics by Martin J. Wainwright~~

Without further restrictions on the model, practical inference in this kind of high-dimensional linear model remains impossible since $p \ll n$ is allowed. A structure that has played an important role in the literature is

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approximate sparsity of the high-dimensional linear model.

~~High Dimensional Methods and Inference on Structural and ...~~

Statistics for high-dimensional data - methods, theory and applications. Springer. [Google Scholar] [2]

Bühlmann P and van de Geer S (2015). High-dimensional inference in misspecified linear models. Electronic Journal of Statistics 9, 1449-1473. [Google Scholar] [3] ...

~~High Dimensional Inference for Personalized Treatment Decision~~

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High-dimensional data arise through a combination of two phenomena. First, the data may be inherently high dimensional in that many different characteristics per observation are available.

~~High Dimensional Methods and Inference on Structural and ...~~

High-dimensional Statistical Inference (T. T. Cai and X. Shen, eds.), 3-37. World Scientific, New Jersey. 2009: Lv, J. and Fan, Y. (2009). A unified approach to model selection and sparse recovery using regularized least squares. The Annals of Statistics 37, 3498-3528.

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2008: Fan, J. and Fan, Y. (2008). High-dimensional classification using features annealed independence rules.

~~Yingying Fan~~ Publications

Abstract: This paper proposes an innovative method for constructing confidence intervals and assessing p-values in statistical inference for high-dimensional linear models. The proposed method has successfully broken the high-dimensional inference problem into a series of low-dimensional inference problems: For each regression coefficient β_i , the confidence interval and p-value are computed by regressing on a subset of variables selected according to the

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conditional independence ...

~~Markov Neighborhood Regression for High-Dimensional Inference~~

Matrix models are ubiquitous in modern statistics. For instance, they are used in finance to assess interdependence of assets, in genomics to impute missing data and in movie recommender systems to model the relationship between users and movie ratings. Typically such models are either high-dimensional, meaning that the number of parameters may exceed the number of data points by many orders of magnitudes, or nonparametric in the sense that the quantity of interest is an infinite dimensional

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~~Statistical inference in high-dimensional matrix models~~

Statistical inference in high dimensional experiments

3.1 Multiple test statistics and multiple P-values In a high-dimensional experiment there are, say K , observations per sampled unit and data from a completely randomized design comparing T levels of a treatment are of the form $Y_{ij} = (Y_{1ij}, \dots, Y_{Kij})$ for the j th sample in the i th treatment group.

~~Challenges and Approaches to Statistical Design and~~

...

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of a high-dimensional matrix model is inference about the main sources of variability in a data set. This is frequently used in Finance or Psychometrics and known in the statistics

~~Statistical inference in high-dimensional matrix models~~

'Non-asymptotic, high-dimensional theory is critical for modern statistics and machine learning. This book is unique in providing a crystal clear, complete and unified treatment of the area. With topics ranging from concentration of measure to graphical models, the author weaves together probability theory and its applications to statistics.

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~~High Dimensional Statistics (Cambridge Series in ...~~
Statistical Inference For High-Dimensional Linear Models Abstract High-dimensional linear models play an important role in the analysis of modern data sets. Although the estimation problem has been well understood, there is still a paucity of methods and theories on the inference problem for high-dimensional linear models. This thesis focuses on statistical inference for high-dimensional

~~Statistical Inference For High Dimensional Linear Models~~

In the present paper, we consider adaptive estimation

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and statistical inference for high-dimensional sparse Gaussian copula regression. The model can be formulated as follows. Suppose we have an independent and identically distributed random sample $Z_1 = (Y_1; X_1), \dots, Z_n = (Y_n; X_n) \in \mathbb{R}^{p+1}$ where $Y_i \in \mathbb{R}$ are the responses and $X_i \in \mathbb{R}^p$ are the covariates. Set $d = p + 1$.

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