

Adaptive Estimation In Weighted Group Testing

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Adaptive Estimation In Weighted Group

Adaptive estimation in weighted group testing Abstract: We consider a generalization of the problem of estimating the support size of a hidden subset S of a universe U from samples. This framework falls under the group testing [1] and the conditional sampling models [2, 3].

Adaptive estimation in weighted group testing - IEEE ...

estimation scenario does therefore fall under our weighted group testing model, and can benefit from the techniques we develop. Organization: In Section II, we formally define the setting of “weighted group testing” that we shall work in. In Section V, we describe and analyze an (adaptive) algorithm for this generalization of group testing.

Adaptive Estimation in Weighted Group Testing

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(PDF) Adaptive Estimation in Weighted Group Testing

We further study two versions of weighted group lasso—adaptive group lasso and integrative group lasso. Adaptive group lasso is a two-stage procedure. In the first stage, we obtain a n -consistent estimator $\hat{\Theta}^0$, for example, the least square estimator $\hat{\Theta}^L S$. Then we plug $\hat{\Theta}^0$ into the weight function $w(z)$ for $p = 1, \dots, P$. The objective function of the adaptive group lasso is $(1) \arg \min_{\Theta} \{SSE(\Theta) + \lambda (\sum_{p=1}^P w(\hat{\Theta}^0_{p,0}) \|\Theta_{p,0}\|)\}$.

Integrative weighted group lasso and generalized local ...

The weighted mean information entropy is adopted as the basis for partitioning of BCS which results in a flexible block group. Furthermore, the synthetic feature (SF) based on local saliency and variance is introduced to step-less adaptive sampling that works well in distinguishing and sampling between smooth blocks and detail blocks.

Electronics | Free Full-Text | Adaptive Algorithm on Block ...

For the Adaptive Behavior Composite score, these weighted anchor-based estimates ranged from 2.44 to 3.76; weighted distribution-based estimates were in good agreement with these weighted anchor-based methods within each stratum, all falling within a half point of the weighted anchor-based estimates.

Adaptive Behavior in Autism: Minimal Clinically-Important ...

Authors: Fuxiang Huang, Lei Zhang, Yang Yang, Xichuan Zhou Description: Domain adaptive image retrieval includes single-domain retrieval and cross-domain retrieval. Most of the existing image ...

Probability Weighted Compact Feature for Domain Adaptive Retrieval

In our weighted group sparse representation approach, we empirically set the values of the bandwidth parameters σ_1 and σ_2 . In the future, we will find the adaptive parameters' selection method and consider more complicated relation between the test image and the training data.

Weighted group sparse representation for undersampled face ...

For example, the Weight Estimation topic asked participants to estimate the heavier of two items, which may be learned as part of various jobs or hobbies (e.g. by engineers, health workers ...

The emergence and adaptive use of prestige in an online ...

4.2. Unblinded SSR Versus Group Sequential Designs. To provide considerations for choosing between ubSSR and GSD in a simplified setting where one of the two possible sample sizes, N_1 and N_2 , are considered for the trial. The sample size N_1 is deemed sufficient to address key questions of interest in the trial and is expected to provide adequate power if an optimistic treatment effect is ...

Full article: Sample Size Re-estimation Designs In ...

In this paper, we define the adaptive Weighted Nadaraya-Watson estimation (AWNW) of the conditional distribution function (cdf) for independent and identically distributed (iid) data using varying bandwidth. The asymptotic normality of the proposed estimator is investigated.

Adaptive weighted Nadaraya-Watson estimation of the ...

RLS-weighted Lasso for adaptive estimation of sparse signals Abstract: The batch least-absolute shrinkage and selection operator (Lasso) has well-documented merits for estimating sparse signals of interest emerging in various applications, where observations adhere to parsimonious linear regression models.

RLS-weighted Lasso for adaptive estimation of sparse ...

An adaptive weighting input estimation method for estimating the time varying input loads acted on structural systems is presented. The algorithm employs the simple Kalman filter to propose a regression model between the residual innovation and the input loads.

Adaptive weighting inverse method for the estimation of ...

Testing and estimation in flexible group sequential designs with adaptive treatment selection. Martin Posch ... Interval and point estimation in adaptive Phase II trials with binary endpoint, Statistical ... Methods for flexible sample-size design in clinical trials: Likelihood, weighted, dual test, and promising zone approaches ...

Testing and estimation in flexible group sequential ...

obtain an adaptive nearest-neighbor function, and then they apply the desired statistical analysis on these adaptive neighborhoods. For example, in order to estimate the effect of a medicine on a specific person of interest, forest-based methods would first construct an ensemble of trees to find people who ought to respond similarly to the treatment ...

Solving Heterogeneous Estimating Equations with Gradient ...

2.2 Type of adaptive designs. Based on (primarily prospective) adaptations employed, commonly considered adaptive design methods in clinical trials include, but are not limited to: (i) an adaptive randomization design, (ii) a group sequential design, (iii) a sample size re-estimation design, (iv) a drop-the-loser design, (v) an adaptive dose finding (e.g., dose escalation) design, (vi) a ...

Adaptive design methods in clinical trials - a review

In group sequential designs and other adaptive designs, access to the interim data gives the ability to answer the important question of how likely a trial is to succeed based on the information accrued so far. The two most commonly cited statistics to evaluate this is conditional power and predictive power.

Sample Size Software for Adaptive Clinical Trial Designs ...

Inference following Group Sequential Designs Adaptive Sequential Designs Adaptive Sample Size Re-estimation: Design and Inference Sarah Emerson and Scott Emerson Sarah Emerson and Scott Emerson Adaptive Designs 1/143 Foundations: Group Sequential Designs Inference following Group Sequential Designs Adaptive Sequential Designs Outline

Adaptive Sample Size Re-estimation: Design and Inference

An improved spectral reflectance estimation method is developed to transform raw camera RGB responses to spectral reflectance. The novelty of our method is to apply a local weighted linear regression model for spectral reflectance estimation and construct the weighting matrix using a Gaussian function in CIELAB uniform color space. The proposed method was tested using both a standard color ...

OSA | Spectra estimation from raw camera responses based ...

mits appropriate weighted signals, exploiting different levels of network cooperation [JJ07]. One approach is based on the amplify and forward protocol, where the relay network uses adaptive complex-valued relay weights. There are also advanced schemes where the decode-and-forward protocol can be used. Caused by the fact that the relays

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