

عنوان مقاله:

Tools for Characterizing the Supports and their Sizes for Nonlinear D-Optimal Designs

محل انتشار:

پنجمین کنفرانس آمار ایران (سال: 1379)

تعداد صفحات اصل مقاله: 13

نویسندگان:

A.S. Hedayat - *Department of Mathematics, Statistics, and Computer Science, University of Illinois at Chicago, ۱۵۱ S. Morgan (M/C ۲۴۹), Chicago, Illinois, ۶۰۶۰۷, U.S.A*

J Zhong - *Department of Mathematics, Statistics, and Computer Science, University of Illinois at Chicago, ۱۵۱ S. Morgan (M/C ۲۴۹), Chicago, Illinois, ۶۰۶۰۷, U.S.A*

L Nie - *Department of Mathematics, Statistics, and Computer Science, University of Illinois at Chicago, ۱۵۱ S. Morgan (M/C ۲۴۹), Chicago, Illinois, ۶۰۶۰۷, U.S.A*

خلاصه مقاله:

For a k -parameter nonlinear model, the minimum number of support points for any D-optimal design is between k and $k(k+1)/2$. Identification and classification of cases with minimum support points are of great interest to both theoreticians and practitioners. Although the literature contains examples of minimum points D-optimal designs. In this paper, we utilize analytical tools, Tchebycheff system, and maximum principle to provide some sufficient conditions such that the D-optimal design is precisely supported by 2 points. The models we consider include generalized linear models, nonlinear regression models with normal error, and a special subclass of general nonlinear model

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/84756>

