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Local Polynomial Modelling And Its Applications

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Local polynomial modeling and its applications provides an up-to-date picture on state-of-the-art nonparametric regression techniques. The emphasis of the book is on methodologies rather than on theory, with a particular focus on applications of nonparametric techniques to various statistical problems.

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The key idea of local modelling is explained in the context of least squares regression models. The simplicity, interpretability and its good statistical properties indicate that the local modelling approach can also be very useful in a wide array of statistical problems.

Local Polynomial Modelling and Its Applications

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to relax assumptions on ...

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Data-analytic approaches to regression problems, arising from many scientific disciplines are described in this book. The aim of these nonparametric methods is to relax assumptions on the form of a regression function and to let data search for a suitable function that describes the data well. The

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Local Polynomial Modelling and Its Applications J. Fan
Department of Statistics University of North Carolina Chapel Hill, USA and I. Gijbels Institute of Statistics Catholic University of Louvain Louvain-la-Neuve, Belgium CHAPMAN & HALL
London • Weinheim • New York • Tokyo • Melbourne • Madras.

Local Polynomial Modelling and Its Applications

Local linear regression is used to impute the missing values and then the estimation of the time-dependent finite populations means. The asymptotic properties (unbiasedness and consistency) of the

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proposed estimator are investigated.

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Local regression - Wikipedia

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Figure 1 shows how one version of the local polynomial kernel estimator works for a simulated example. The scatterplot in Figure 1a corresponds to 220 simulated Poisson counts generated according to...

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Local Polynomial Modelling and Its Applications : Jianqing ...
Firstly, the local polynomial fitting is applied to estimate heteroscedastic function, then the coefficients of regression model are obtained by using generalized least squares method. One noteworthy feature of our approach is that we avoid the testing for heteroscedasticity by improving the traditional two-stage method.

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