

Strong consistency of wavelet estimators for errors-in-variables regression model

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Abstract This paper studies the strong consistency of some estimators for an errors-in-variables regression model. We first provide an extension of Meister’s theorem. Then, the same problem is dealt with under the Fourier-oscillating noises. Finally, we prove two strong consistency theorems for wavelet estimators corresponding to non-oscillating and Fourier-oscillating noises.

Keywords Errors-in-variables · Fourier-oscillating noise · Regression function · Strong consistency · Wavelets

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