Boubaker, H.; **Boutahar, M.**; **Khalfaoui, R.**
Wavelets and estimation of long memory in nonstationary models: does anything beat the exact local Whittle estimator? (English) Zbl 1422.62364
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Summary: In this article, we analyze the performance of five estimation methods for the long memory parameter d. The goal of our article is to construct a wavelet estimate for the fractional differencing parameter in nonstationary long memory processes that dominate the well-known estimate of *K. Shimotsu* and *P. C. B. Phillips* [Ann. Stat. 33, No. 4, 1890–1933 (2005; Zbl 1081.62069)]. The simulation results show that the wavelet estimation method of *J. Lee* [Econ. Lett. 87, No. 2, 207–210 (2005; Zbl 1254.91673)] with several tapering techniques performs better under most cases in nonstationary long memory. The comparison is based on the empirical root mean squared error of each estimate.

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