Volkswirtschaftliche Analysen

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Cristina Sattarhoff

Statistical Inference in Multifractal Random Walk Models for Financial Time Series





Statistical Inference in Multifractal Random Walk Models for Financial Time Series (1st New edition)

By Cristina Sattarhoff

Peter Lang GmbH. Paperback. Condition: new. BRAND NEW, Statistical Inference in Multifractal Random Walk Models for Financial Time Series (1st New edition), Cristina Sattarhoff, The dynamics of financial returns varies with the return period, from high-frequency data to daily, quarterly or annual data. Multifractal Random Walk models can capture the statistical relation between returns and return periods, thus facilitating a more accurate representation of real price changes. This book provides a generalized method of moments estimation technique for the model parameters with enhanced performance in finite samples, and a novel testing procedure for multifractality. The resource-efficient computer-based manipulation of large datasets is a typical challenge in finance. In this connection, this book also proposes a new algorithm for the computation of heteroscedasticity and autocorrelation consistent (HAC) covariance matrix estimators that can cope with large datasets.



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