Primary Article

The Distribution of Realized Exchange Rate Volatility

Torben G Andersen, Tim Bollerslev, Francis X Diebold & Paul Labys

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Abstract

Using high-frequency data on deutschemark and yen returns against the dollar, we construct model-free estimates of daily exchange rate volatility and correlation that cover an entire decade. Our estimates, termed realized volatilities and correlations, are not only model-free, but also approximately free of measurement error under general conditions, which we discuss in detail. Hence, for practical purposes, we may treat the exchange rate volatilities and correlations as observed rather than latent. We do so, and we characterize their joint distribution, both unconditionally and conditionally. Noteworwise high contemporaneous correlation and volatility evidence relations, evidence markably preci

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