On variants of stable quasi-likelihood for Lévy driven SDE

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Abstract

When estimating the parametric coefficients of a locally stable Lévy-driven stochastic differential equation (SDE) observed at high frequency, the non-Gaussian stable quasi-likelihood estimator (SQMLE) is theoretically much superior to the Gaussian one. We will discuss some variants of the SQMLE whose asymptotic distributions are mixed normal under the bounded-domain asymptotics.