High Frequency Returns Sign-Based Robust Inference

Jean Jacob Department of Mathematics, Sorbonne University (with Nour Meddahi)

The paper derives the limit and the infill asymptotic distribution of the sum of positive returns in a given period of time. The framework is multivariate and quite general; it allows for the presence of leverage effects and jumps. In a second step, the results are used to estimate the drifts of the continuous part of the processes.