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Nonparametric Inference of Value-at-Risk for Dependent Financial Returns

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ABSTRACT

A brief introduction of value-at-risk(VaR), the nonparametric estimation of VaR and associated standard error estimation for dependent financial returns. Theoretical properties of kernel VaR estimator are investigated in the context of dependence. The presence of dependence affects the variance of the VaR estimates and has to be taken into consideration in order to obtain adequate assessment of their variation. An estimation procedure of the standard errors is proposed based on kernel estimation of the spectral density of a derived series.

Information about building access for persons with disabilities may be obtained in advance by calling Karen Gonzalez (Department Administrator and Assistant to Chair) at 773.702.8335 or by email (karen@galton.uchicago.edu).