

Stochastic volatility Models

Risk management is largely based on historical volatilities. Procedures for using historical data to monitor volatility.

Define $n + 1$: number of observations
 S_i : value of variable at end of i th interval, where $i = 0, 1, \dots, n$
 r : length of time interval

$$u_i = \ln \left(\frac{S_i}{S_{i-1}} \right) \quad \text{for } i = 1, 2, \dots, n.$$

$$s = \frac{1}{n-1} \sum_{i=1}^n (u_i - \bar{u})^2$$

The standard deviation of the u_i is $\sigma\sqrt{r}$, where σ is the volatility of the variable. The variable s is, therefore an estimate of $\sigma\sqrt{r}$.

It follows that s itself can be estimated as $\hat{\sigma}$, where $\hat{\sigma} = \frac{s}{\sqrt{r}}$

The standard error of this estimate is approximately: $\frac{\hat{\sigma}}{\sqrt{2n}}$

Stochastic Volatility

Christian Kahl



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