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Volume 18, 2008 - [Issue 15](#)

5,602 155

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Estimating stock market volatility using asymmetric GARCH models

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Pages 1201-1208 | Published online: 21 Jul 2008

 Cite this article

 <https://doi.org/10.1080/09603100701604225>

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¹ The TA25 Index is a value-weighted index of the shares of the 25 companies with the highest market capitalization that are traded on the TASE.

² The TA100 Index is a value-weighted index of the shares of the 100 companies with the highest market capitalization that are traded on the TASE.

³ The BFGS method approximates the Hessian matrix by analyzing successive gradients vectors.

⁴ The estimated values for the four models are available from the authors.

⁵ The Prob[1] and Prob[2] are the probability values for P(50), the first using 49 degrees of freedom and the second 49 minus the number of estimated parameters.

⁶ MSE and MAE are generally affected by larger errors such as in the case of outliers. MedSE and AMAPE have the advantage of reducing the effect of outliers.

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