

The European Journal of Finance >

Volume 24, 2018 - [Issue 13: Seventh International Conference on Mathematical and Statistical Methods for Actuarial Sciences and Finance, Dauphine Université Paris, 30th March to April 2016.](#)

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Backtesting lambda value at risk

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Pages 1075-1087 | Received 18 Sep 2016, Accepted 31 May 2017, Published online: 20 Jun 2017

 Cite this article  <https://doi.org/10.1080/1351847X.2017.1339105>

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ABSTRACT

A new risk measure, lambda value at risk (ΔVaR), has been recently proposed as a generalization of value at risk (VaR). ΔVaR appears attractive for its potential ability to solve several problems of VaR. This paper provides the first study on the backtesting of ΔVaR . We propose three nonparametric tests which exploit different features. Two tests are based on simple results of probability theory. One test is unilateral and is more suitable for small samples of observations. A second test is bilateral and provides an asymptotic result. A third test is based on simulations and allows for a more accurate comparison among ΔVaR_s computed with different assumptions on the asset return distribution. Finally, we perform a backtesting exercise that confirms a higher performance of ΔVaR in respect to VaR especially when it is estimated with distributions that better capture tail behavior.

KEYWORDS:

backtesting

hypothesis testing

model validation

risk management

JEL CLASSIFICATIONS:

C12

C52

G32

Disclosure statement

No potential conflict of interest was reported by the authors.

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