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Comparative analysis between global sukuk and bond indices: value-at-risk approachBy: Bhuiyan, RA (Bhuiyan, Rubaiyat Ahsan)^[1]; Puspa, M (Puspa, Maya)^[1]; Saiti, B (Saiti, Buerhan)^[2]; Ghani, GM (Ghani, Gairuzazmi Mat)^[1][View Web of Science ResearcherID and ORCID](#)

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Abstract

Purpose

Sukuk is an innovative financial instrument with a flexible structure based on Islamic financial contracts, unlike a bond which is based on the structure of a loan imposed with interest. With the notion that sukuk differs considerably from the conventional bonds in terms of risks related to investment, this study aims to examine whether the sukuk market is different from conventional bond markets based on the value-at-risk (VaR) approach.

Design/methodology/approach

The VaR of a portfolio consists of sukuk and bond indices and is undertaken to determine whether there is any reduction in the VaR amount through the inclusion of the sukuk index in the portfolio. The analysis is undertaken based on the developed and emerging market bond and sukuk indices from January 2010 to December 2015.

Findings

This paper examines whether the VaR of sukuk market differs from conventional bond markets by using fundamental techniques. It was observed that the VaR amount of sukuk indices is comparatively much lower than the VaR of bond indices in all the cases. Including the sukuk index with each bond index can reduce the VaR of the portfolio by around 30 to 50 per cent for all the developed and emerging market bond indices.

Originality/value

The VaR method is a useful risk management tool. This study uses this method to emphasise the significant reduction of risks and diversification benefits that sukuk investment could offer by including it in the investment portfolio.

Keywords

Author Keywords: Sukuk; Bond; Value-at-risk; Portfolio management; Islamic finance

KeyWords Plus: CONVENTIONAL BONDS; WAVELET COHERENCE; CRISIS

Author Information

Reprint Address:

Istanbul Sabahattin Zaim University Istanbul Sabahattin Zaim Univ, Dept Islamic Econ & Finance, Istanbul, Turkey.

Corresponding Address: Saiti, B (corresponding author)

+ Istanbul Sabahattin Zaim Univ, Dept Islamic Econ & Finance, Istanbul, Turkey.

Addresses:

+ [1] Int Islamic Univ Malaysia, Fac Econ & Management Sci, Kuala Lumpur, Malaysia

+ [2] Istanbul Sabahattin Zaim Univ, Dept Islamic Econ & Finance, Istanbul, Turkey

E-mail Addresses: rubaiyat313@gmail.com; mayapuspa@iiu.edu.my; borhanseti@gmail.com; gairuzazm@iiu.edu.my

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