

Discrete renewal and selfdecomposable distributions in modelling information risk management operations

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Abstract

A thorough examination of the contribution of stochastic modelling to the evolution of information risk management as an organizational discipline reveals a continuing significance attached to the applications of discrete probability distributions in measurement, evaluation and treatment operations for risks threatening information assets, information and information processes of organizations. The main purpose of the present paper is the extension of the practical applicability of discrete renewal and selfdecomposable distributions in developing stochastic models for risk frequency reduction operations arising in the area of information risk treatment practices.

Keywords : *Renewal distribution, selfdecomposable distribution, integral part model, risk frequency reduction.*

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