

ON BEHAVIOR OF SET OF QUASI EFFICIENT PORTFOLIOS IN
POSSIBILISTIC-PROBABILISTIC MODEL DEPENDING ON
LEVELS OF POSSIBILITIES AND PROBABILITIES

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The paper is devoted to investigation of a model of minimal risk portfolio with hybrid uncertainty of possibilistic-probabilistic type. In the model the expected value of an asset and, therefore, the expected value of portfolio is explicated by fuzzy random variable. The expected value is considered in the model by means of possibility/necessity and probability restrictions on acceptable for investor level of profitability. The obtained results characterize the behavior of a set of quasieffective investment opportunities depending on value of possibility/necessity and probability for restriction.

Keywords: investment portfolio, fuzzy random environment, set of quasieffective investment opportunities, possibilistic (fuzzy) random variable, possibility measure, necessity measure, possibility/necessity and probability restrictions.

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