

Ogryczak, Włodzimierz; Ruszczyński, Andrzej

Dual stochastic dominance and related mean-risk models. (English) Zbl 1022.91017
SIAM J. Optim. 13, No. 1, 60-78 (2002).

The authors consider the problem of constructing mean-risk models which are consistent with the second degree stochastic dominance relation and develop the quantile model of stochastic dominance for general distributions. They show that several models using quantiles and tail characteristics of the distribution are in harmony with the stochastic dominance relation, and they provide stochastic linear programming formulations of these models.

Reviewer: [Mariano Ruiz Espejo \(Madrid\)](#)

MSC:

[91B06](#) Decision theory
[91B30](#) Risk theory, insurance (MSC2010)
[52A41](#) Convex functions and convex programs in convex geometry
[90C15](#) Stochastic programming

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Keywords:

[decisions under uncertainty](#); [stochastic dominance](#); [Fenchel duality](#); [mean-risk analysis](#); [quantile risk measures](#); [stochastic programming](#)

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