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Abstract

We extend the classical mean-variance preference model underlying modern portfolio theory to include deviation measures [Rockafellar et al. 2006]. Deviation measures have characteristics similar to a norm, save that they are not symmetric.

The significance of this study is given by the fact that the class of agents following a CAPM-like investment strategy with a certain deviation measure - which is tantamount to always selecting a certain personal master portfolio - can be described by having generalized mean-risk preferences with certain constraints on the utility function [Rockafellar et al. 2007].

We provide two axiomatic characterisations of this class of preferences, one for the case where the deviation measure is given, and one for preferences from which a deviation measure can be extracted.

1 Motivation

Mean-Variance Preference have been at the very foundation of classical modern portfolio theory. The assumption that the investor's preference depends

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