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Detecting Anchoring in Financial Markets

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Abstract

Anchoring is a term used in psychology to describe the common human tendency to rely too heavily (anchor) on one piece of information when making decisions. Here a trading algorithm inspired by biological motors, introduced by L. Gil [2007], is suggested as a testing ground for anchoring in financial markets. An exact solution of the algorithm is presented for arbitrary price distributions. Furthermore the algorithm is extended to cover the case of a market neutral portfolio, revealing additional evidence that anchoring is involved in the decision making of market participants. The exposure of arbitrage opportunities is reduced, and the difficulty of finding profitable trading strategies is increased. The price time series is analyzed using the algorithm.

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