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Tomasz R. Bielecki, Igor Cialenco, Ismail lyigunler, Rodrigo Rodriguez

Transaction Costs via Dynamic

Coherent Acceptability Indices

Dynamic Conic Finance: Pricing

and Hedging in Market Models with

(Submitted on 22 May 2012 (v1), last revised 27 Nov 2012 (this version, v2))

In this paper we present a theoretical framework for determining dynamic ask and bid prices of derivatives using the theory of dynamic coherent acceptability indices in discrete time. We prove a version of the First Fundamental Theorem of Asset Pricing using the dynamic coherent risk measures. We introduce the dynamic ask and bid prices of a derivative contract in markets with transaction costs. Based on these results, we derive a representation theorem for the dynamic bid and ask prices in terms of dynamically consistent sequence of sets of probability measures and riskneutral measures. To illustrate our results, we compute the ask and bid prices of some path-dependent options using the dynamic Gain-Loss Ratio.

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Which authors of this paper are endorsers?