

arXiv.org > math > arXiv:1205.6193

We gratefully acknowledge supporting institutions

(Help | Advanced search)

Go!

Search or Article-id

All papers 🚽

Download:

- PDF
- PostScript
- Other formats

Current browse context: math.OC

< prev | next >

new | recent | 1205

Change to browse by:

math q-fin q-fin.TR

References & CitationsNASA ADS



Mathematics > Optimization and Control

A Multi Period Equilibrium Pricing Model

Traian A. Pirvu, Huayue Zhang

(Submitted on 28 May 2012)

In this paper, we propose an equilibrium pricing model in a dynamic multiperiod stochastic framework with uncertain income streams. In an incomplete market, there exist two traded risky assets (e.g. stock/commodity and weather derivative) and a non-traded underlying (e.g. temperature). The risk preferences are of exponential (CARA) type with a stochastic coefficient of risk aversion. Both time consistent and time inconsistent trading strategies are considered. We obtain the equilibriums prices of a contingent claim written on the risky asset and non-traded underlying. By running numerical experiments we examine how the equilibriums prices vary in response to changes in model parameters.

Subjects: **Optimization and Control (math.OC)**; Trading and Market Microstructure (q-fin.TR) Cite as: **arXiv:1205.6193v1 [math.OC]**

_____ L.....

Submission history

From: Traian Pirvu A [view email] [v1] Mon, 28 May 2012 19:34:44 GMT (16kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.