

Option Pricing and Hedging for Discrete Time Regime-Switching Models

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Abstract

We propose optimal mean variance dynamic hedging strategies in discrete time under a multivariate Gaussian regime switching model. The methodology, which also performs pricing, is robust to time varying and clustering risk observed in financial time series. As such, it overcomes the main theoretical drawbacks of the Black Scholes model. To support our approach, we provide goodness of fit tests to validate the model and for choosing the appropriate number of regimes, and we illustrate the methodology using monthly S & P 500 vanilla options prices. Then, we present the associated out of sample hedging results in the context of harvesting the implied versus realized volatility premium. Using the proposed methodology, the Sharpe ratio derived from the strategy doubles over the Black Scholes delta hedging methodology.

Keywords

Option Pricing, Dynamic Hedging, Regime Switching, Goodness of Fit, Hidden Markov Models

1. Introduction

In complete, frictionless capital markets with no transaction costs and where the underlying securities follow geometric Brownian motions, the Black Scholes framework [1] provides an elegant and tractable solution for pricing and hedging derivative securities, typically vanilla calls and puts. Unfortunately, actual financial markets are far more complex and empirical testing of the Black Scholes model has highlighted its many shortcomings. Indeed, it is well documented [2] [3] [4] that the observed properties of financial time series are not consistent with its underlying assumptions. Time varying volatility, the presence

Discrete Time Option Pricing Models Thomas Eap

Xiaolong Qi



Discrete Time Option Pricing Models Thomas Eap:

This book delves into Discrete Time Option Pricing Models Thomas Eap. Discrete Time Option Pricing Models Thomas Eap is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Discrete Time Option Pricing Models Thomas Eap, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Discrete Time Option Pricing Models Thomas Eap
 - Chapter 2: Essential Elements of Discrete Time Option Pricing Models Thomas Eap
 - Chapter 3: Discrete Time Option Pricing Models Thomas Eap in Everyday Life
 - Chapter 4: Discrete Time Option Pricing Models Thomas Eap in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Discrete Time Option Pricing Models Thomas Eap. This chapter will explore what Discrete Time Option Pricing Models Thomas Eap is, why Discrete Time Option Pricing Models Thomas Eap is vital, and how to effectively learn about Discrete Time Option Pricing Models Thomas Eap.
 3. In chapter 2, the author will delve into the foundational concepts of Discrete Time Option Pricing Models Thomas Eap. The second chapter will elucidate the essential principles that need to be understood to grasp Discrete Time Option Pricing Models Thomas Eap in its entirety.
 4. In chapter 3, the author will examine the practical applications of Discrete Time Option Pricing Models Thomas Eap in daily life. This chapter will showcase real-world examples of how Discrete Time Option Pricing Models Thomas Eap can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Discrete Time Option Pricing Models Thomas Eap in specific contexts. This chapter will explore how Discrete Time Option Pricing Models Thomas Eap is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Discrete Time Option Pricing Models Thomas Eap. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Discrete Time Option Pricing Models Thomas Eap.

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