



Holger Kraft

Optimal Portfolios with Stochastic Interest Rates and Defaultable Assets



Springer

Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets

Julian Hözermann

Optimal Portfolios With Stochastic Interest Rates And Defaultable Assets:

Optimal Portfolios with Stochastic Interest Rates and Defaultable Assets Holger Kraft, 2004-04-13 The continuous time portfolio problem consists of finding the optimal investment strategy of an investor In the classical Merton problem the investor can allocate his funds to a riskless savings account and risky assets However to get explicit results it is assumed that the interest rates are deterministic and that the assets are default free In this monograph both assumptions are weakened The author analyzes and solves portfolio problems with stochastic interest rates and with defaultable assets Besides he briefly discusses how portfolio problems with foreign assets can be handled The focus of the monograph is twofold On the one hand the economical problems are carefully explained on the other hand their formal solution is rigorously presented For this reason the text should be of interest to researchers with a Finance background as well as to researchers with a more formal background who would like to see how mathematics is applied to portfolio theory TOC Preliminaries from Stochastics Optimal Portfolios with Stochastic Interest Rates Elasticity Approach to Portfolio Optimization Barrier Derivatives with Curved Boundaries Optimal Portfolios with Defaultable Assets A Firm Value Approach References Abbreviations Notations

More on Optimal Portfolio Choice Under Stochastic Interest Rates Abraham Lioui, Patrice Poncet, 1998 **On Optimal Portfolio Choice Under Stochastic Interest Rates** Abraham Lioui, 2010 In an economy where interest rates and stock price changes follow fairly general stochastic processes we analyse the portfolio problem of an expected utility investor When the investment opportunity set is driven by an arbitrary number of state variables the optimal portfolio strategy is known to contain a speculative element and Merton Breeden hedging terms against the fluctuations of each and every state variable While the first component is well identified and easy to work out the implementation of the last ones is problematic as the investor must identify all the relevant state variables and estimate their distribution characteristics Using a new decomposition of the optimal wealth we show that the optimal strategy can be simplified to include in addition to the speculative component only two Merton Breeden type hedging elements however large is the number of state variables The first one is associated with interest rate risk and the second one with the risk brought about by the co movements of the spot interest rate and the market prices of risk The implementation of the optimal strategy is thus much easier as it involves estimating the characteristics of the yield curve and the market prices of risk only rather than those of numerous a priori unknown state variables Moreover the investor's horizon is shown explicitly to play a crucial role in the optimal strategy design in sharp contrast with the traditional decomposition **Optimal Portfolios** Ralf Korn, 1997 The focus of the book is the construction of optimal investment strategies in a security market model where the prices follow diffusion processes It begins by presenting the complete Black Scholes type model and then moves on to incomplete models and models including constraints and transaction costs The models and methods presented will include the stochastic control method of Merton the martingale method of Cox Huang and Karatzas et al the log optimal method of Cover and Jamshidian the value preserving

model of Hellwig etc *Optimal Portfolio Policies for an Investor with Uncertain Time of Death in a Stochastic Interest Rate Economy* Mads Kvist Pedersen, Syddansk Universitet. DUS-sekretariatet, Syddansk Universitet. Institut for Regnskab, Finansiering og Erhvervsjura, 2001 **Portfolio Choice with Stochastic Interest Rates and Learning About Stock Return Predictability** Marcos Escobar, 2014 The problem of optimal wealth allocation is solved under the assumptions that interest rates are stochastic and stock returns are predictable with observed and unobserved factors The stock risk premium is taken to be an affine function of the predictive variables and the stock return volatility is assumed to depend on the observed factor The latent factor is estimated based on the observations It is shown that the stock return predictability can significantly impact the optimal bond portfolio The welfare loss from ignoring learning can be considerable

Optimal Portfolios with Stochastic Short Rate Holger Kraft, 2005 The aim of this paper is to highlight some of the problems occurring when one leaves the usual path of portfolio problems with Gaussian interest rates and bounded market price of risk We solve several portfolio problems for different specifications of the short rate and the market price of risk More precisely we consider a Gaussian model the Cox Ingersoll Ross model and squared Gaussian as well as lognormal specifications of the short rate Even for the seemingly innocent Gaussian model the problem may explode in a certain sense if the market price of risk is unbounded From an economic point of view in this case the model does not exhibit a partial equilibrium indicating that for instants the time preferences of the investor are not properly modeled This problem can be overcome by introducing short rate depending time preferences Above all we strongly emphasize that it is not straightforward to generalize the existing results on continuous time portfolio optimization to the case of a Non Gaussian stochastic short rate or to a Gaussian term structure with unbounded market price of risk

Stochastic Interest Rates and the Bond-Stock Mix Yihong Xia, 2008 The optimal bond stock mix is examined in light of an apparent inconsistency between the Tobin Separation Theorem and the advice of popular investment advisors which has been pointed out by Canner et al 1997 It is shown that the apparent inconsistency is largely explicable in terms of the hedging demands of optimising long term investors in an environment in which the investment opportunity set is subject to stochastic shocks The analysis points to the importance of considering investors time horizons in analyzing optimal portfolio policies

Portfolio Optimization with Risk Constraints in the View of Stochastic Interest Rates William Ntambala, 2016 **Optimal Investment with Stochastic Interest Rates and Ambiguity** Julian Hölzermann, 2023 This paper studies dynamic asset allocation with interest rate risk and several sources of ambiguity The market consists of a risk free asset a zero coupon bond both determined by a Vasicek model and a stock There is ambiguity about the risk premia the volatilities and the correlation The investor's preferences display both risk aversion and ambiguity aversion The optimal investment problem can be solved in closed form under typical market conditions The solution shows that the investor does not hedge ambiguity but only risk while the ambiguity only affects the speculative motives of the investor An implementation of the optimal investment strategy shows the impact of the different

sources of ambiguity Ambiguity aversion helps to tame the highly leveraged portfolios neglecting ambiguity and leads to strategies that are more in line with popular investment advice The solution method for the optimal investment problem is based on an extension of the martingale optimality principle

The Elasticity Approach to Portfolio Optimization

Holger Kraft,2005 We consider investment problems in a continuous time setting and show that the proper control variables are elasticities to the traded assets or in the case of stochastic interest rates factor durations This formulation of a portfolio problem allows us to solve the problems in a kind of two step procedure First calculating the optimal elasticities and durations which determine the optimal wealth process and then computing a portfolio process which tracks these elasticities and durations Our findings are not only important by itself but the approach also turns out to be useful in many applications for example for portfolios with path dependent options

Stochastic Interest Rate Modeling With Fixed Income Derivative

Pricing (Third Edition) Nicolas Privault,2021-09-02 This book introduces the mathematics of stochastic interest rate modeling and the pricing of related derivatives based on a step by step presentation of concepts with a focus on explicit calculations The types of interest rates considered range from short rates to forward rates such as LIBOR and swap rates which are presented in the HJM and BGM frameworks The pricing and hedging of interest rate and fixed income derivatives such as bond options caps and swaptions are treated using forward measure techniques An introduction to default bond pricing and an outlook on model calibration are also included as additional topics This third edition represents a significant update on the second edition published by World Scientific in 2012 Most chapters have been reorganized and largely rewritten with additional details and supplementary solved exercises New graphs and simulations based on market data have been included together with the corresponding R codes This new edition also contains 75 exercises and 4 problems with detailed solutions making it suitable for advanced undergraduate and graduate level students

Research Report Claus Munk,Alexey

Rubtsov,T.N. Thiele Centre for Applied Mathematics in Natural Science,2012

Worst-case Optimal Investment and

Consumption Tina Engler,2015 Worst case optimization stochastic interest rate optimal investment and consumption

stochastic optimal control HARA utility

Portfolio Management with Stochastic Interest Rates and Inflation Ambiguity

Claus Munk,Alexey Rubtsov,2012

Stochastic Portfolio Theory

E. Robert Fernholz,2002-04-12 Stochastic portfolio theory is a mathematical methodology for constructing stock portfolios and for analyzing the effects induced on the behavior of these portfolios by changes in the distribution of capital in the market Stochastic portfolio theory has both theoretical and practical applications as a theoretical tool it can be used to construct examples of theoretical portfolios with specified characteristics and to determine the distributional component of portfolio return This book is an introduction to stochastic portfolio theory for investment professionals and for students of mathematical finance Each chapter includes a number of problems of varying levels of difficulty and a brief summary of the principal results of the chapter without proofs

Execute

Trading Policies on Optimal Portfolio When Stochastic Volatility and Inflation Effect Were Considered Ashri Rahadi,2016

Tempting to formulate the long term investment strategy for investors who dynamically adjust her portfolio over her lifetime we are interested to optimize the end of period terminal wealth using Bellman Principles We designed the portfolio to be replete with risky asset and risk less asset fixed income asset in the continuous framework The stochastic volatility model is depicted in risky asset dynamic known as Constant Elasticity of Variance CEV because the empirical bias of Leverage effect in stock price evolution founded by Black Scholes can be directly examined Meanwhile the bond pricing analysis was no longer classified as risk free asset because it was analyzed under the stochastic Inflation and Interest rate of affine structures named Vasicek Because we want to reflect their mean reverting behavior as they re hovering around their long term mean Later state space was constructed and portion of risky asset was elected to be control variables for supremum over value function The concept of investment decision is intertemporal as today decision affected tomorrow s which finding its optimal rate would be trade off for investor For this we framed the decision criteria with investor s utility function from class Decreasing Absolute Risk Aversion DARA the class that generally most investor mostly consistent with Friend Blumme 1975 The problem description above can be represented as stochastic optimal control problem and it was solved with dynamic programming argument with modified verification theorem to tackle the issue of Stochastic Differential Equation well posedness violation Through stages of change variables we were able to find the closed form trading solution from corresponding Hamilton Jacobi Bellman HJB equation Compare to standard Merton model our trading strategies strength are determining interest rate inflation rate and degree of leverage for improvement and hence have inline economic logic reasoning for our solutions

The Price of Interest Rate Variance Risk and Optimal Investments in Interest Rate

Derivatives Anders B. Trolle,2011 Recent research on unspanned stochastic variance raises the possibility that interest rate derivatives constitute an important component of optimal fixed income portfolios In this paper I estimate a flexible dynamic term structure model that allows for unspanned stochastic variance on an extensive data set of swaps and swaptions I find that variance risk is predominantly unspanned by bonds and that the price of risk on the unspanned variance factor is significantly larger in absolute value than the prices of risk on the term structure factors Consequently Sharpe ratios on variance sensitive derivatives are about three times larger than Sharpe ratios on bonds or short term bond futures These findings are corroborated by an analysis of the Treasury futures market where the variance risk premium is estimated with a model independent approach I then solve the dynamic portfolio choice problem for a long term fixed income investor with and without access to interest rate derivatives and find substantial utility gains from participating in the derivatives market

On The Stability of Continuous-Time Portfolio Problems with Stochastic Opportunity Set Holger Kraft,Ralf Korn,2023 In this paper we present some counter examples to show that an uncritical application of the usual methods of continuous time portfolio optimization can be misleading in the case of a stochastic opportunity set Cases covered are problems with stochastic interest rates stochastic volatility and or stochastic market price of risk To classify the problems

occurring with stochastic market coefficients we further introduce two notions of stability of portfolio problems **Dynamic Asset Allocation with Stochastic Income and Interest Rates** Claus Munk, 2009 We investigate the optimal investment and consumption choice of individual investors with uncertain future labor income operating in a financial market with stochastic interest rates Since the present value of the individual's future income is a main determinant of the optimal behavior and this present value depends heavily on the interest rate dynamics the joint stochastics of income and interest rates will have consequences beyond the separate effects of stochastic income and stochastic interest rates We study both the case where income risk is spanned and there are no portfolio constraints and the case with non spanned income risk and a constraint ruling out borrowing against future income For the spanned unconstrained problem we study a special case in which we obtain closed form expressions for the optimal policies For the unspanned constrained problem we implement a numerical solution technique and compare the solutions to the spanned unconstrained problem We also allow for typical life cycle variations in labor income

The book delves into Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets. Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets 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 Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets
- Chapter 2: Essential Elements of Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets
- Chapter 3: Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets in Everyday Life
- Chapter 4: Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets. This chapter will explore what Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets is, why Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets is vital, and how to effectively learn about Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets.

3. In chapter 2, this book will delve into the foundational concepts of Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets. The second chapter will elucidate the essential principles that need to be understood to grasp Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets in its entirety.

4. In chapter 3, this book will examine the practical applications of Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets in daily life. The third chapter will showcase real-world examples of how Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets in specific contexts. The fourth chapter will explore how Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets. The final chapter will summarize the key points that have been discussed throughout the book. The 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 Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets.

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Optimal Portfolios With Stochastic Interest Rates And Defaultable Abets Introduction

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