

MARTELLINI Lionel, PhD

Professor, Speciality: Finance - Director of EDHEC-Risk Institute - Senior Scientific Advisor ERI Scientific Beta

Principal Academic Publications: Journal of Financial and Quantitative Analysis (2014), Journal of Pension Economics and Finance (2012; 2013), Bankers, Markets & Investors (2012; 2013; 2014; 2015), Journal of Investment Management (2011), European Financial Management Journal (2010), Banques & Marchés (2008), Journal of Mathematical Economics (2008), Journal of Performance Measurement (2003), Journal of Asset Management (2003), Journal of Alternative Investments (2003; 2004; 2008; 2011; 2015), Financial Analysts Journal (2003; 2011), Economic & Financial Computing (2004), Journal of Portfolio Management (2004; 2006; 2007; 2008; 2009; 2010; 2011; 2012; 2014; 2015), Journal of Fixed Income (2005; 2006; 2007; 2015), Managerial Finance (2005), Journal of Economic Dynamics & Control (2005), Management Science (2006), Journal of Financial Risk Management (2006), Review of Financial Studies (2006; 2010), European Financial Management Journal(2007; 2010)



EDHEC Business School 393/400 Promenade des Anglais - BP3116 06202 Nice cedex 3 - France

Tel.: + 33 (0)4 93 18 99 66 Fax: + 33 (0)4 93 83 08 10

Email - lionel.martellini@edhec.edu

[EDHEC PUBLICATIONS]



Multi-Dimensional Risk and Performance Analysis for Equity Portfolios

Kevin Giron, Lionel Martellini, Vincent Milhau:

The present publication is drawn from the CACEIS research chair on "New Frontiers in Risk Assessment and Performance Reporting" at EDHEC-Risk Institute.

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<u>Factor Investing and Risk Allocation: From Traditional to Alternative Risk Premia</u> <u>Harvesting</u>

Jean-Michel Maeso, Lionel Martellini:

The present publication was produced as part of the "Risk Allocation Solutions" research chair at EDHEC-Risk Institute, in partnership with Lyxor Asset Management.

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<u>Mass Customisation versus Mass Production in Investment Management</u>
How An Industrial Revolution is about to Take Place in Investment Management and Why it Involves a Shift from Investment Products to Investment Solutions

Lionel Martellini:

Over the last 15 years or so, the investment industry has experienced a series of profound structural changes, and an increasing number of serious new challenges are being faced by both institutional and individual investors as a result of these changes.

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<u>Factor Investing: A Welfare- Improving New Investment Paradigm or Yet Another Marketing Fad?</u>



Lionel Martellini, Vincent Milhau: This paper examines the relative efficiency of standard forms of practical implementation of the factor investing paradigm based on

commonly-used factors in the equity, fixed-income and commodity universes.

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<u>Introducing a Comprehensive Risk Allocation Framework for Goals-Based Wealth Management</u>

Romain Deguest, Lionel Martellini, Vincent Milhau, Anil Suri, Hungjen Wang: This publication introduces a new conceptual framework to better achieve individual investors' goals.

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Using Index Options to Improve the Performance of Dynamic Asset Allocation Strategies

Noël Amenc, Philippe Malaise, Lionel Martellini, Daphné Sfeir:

It has been long argued that equity managers can use derivatives markets to help implement a systematic risk management process designed to enhance the performance of their portfolio (see for example Ineichen (2002) for a recent reference).

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Equity Portfolios with Improved Liability-Hedging Benefits

Guillaume Coqueret, Romain Deguest, Lionel Martellini, Vincent Milhau.

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Risk Allocation, Factor Investing and Smart Beta: Reconciling Innovations in Equity Portfolio Construction

Noël Amenc, Romain Deguest, Felix Goltz, Ashish Lodh, Lionel Martellini, Eric Shirbini: This publication argues that current smart beta investment approaches only provide a partial answer to the main shortcomings of capitalisation-weighted (cap-weighted) indices, and develops a new approach to equity investing referred to as smart factor

investing.

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<u>Towards Conditional Risk Parity - Improving Risk Budgeting Techniques in Changing</u> Economic Environments

Lionel Martellini, Vincent Milhau, Andrea Tarelli:

The present publication was produced as part of the "Asset Allocation Solutions" research chair at EDHEC-Risk Institute, in partnership with Lyxor Asset Management.

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Improved Risk Reporting with Factor-Based Diversification Measures

Tiffanie Carli, Romain Deguest, Lionel Martellini:

The present publication, "Improved Risk Reporting with Factor-Based Diversification Measures," is drawn from the CACEIS research chair on "New Frontiers in Risk Assessment and Performance Reporting" at EDHEC-Risk Institute.

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Who Needs Inflation Hedging?

A Quantitative Analysis of the Benefits of Inflation-Linked Bonds, Real Estate and Commodities for Long-Term Investors with Inflation-Linked Liabilities

Lionel Martellini, Vincent Milhau:

This paper proposes an empirical analysis of the opportunity gains (costs) involved in

introducing (removing) various assets with attractive inflation-hedging properties for long-term investors facing inflation-linked liabilities.

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Dynamic Liability-Driven Investing Strategies: The Emergence of a New Investment Paradiam for Pension Funds?

A survey of the LDI practices for pension funds

Saad Badaoui, Romain Deguest, Lionel Martellini, Vincent Milhau:

In the present publication, which was produced as part of the BNP Paribas Investment Partners research chair at EDHEC-Risk Institute on "ALM and Institutional Investment

Management," led by Professor Lionel Martellini, we have attempted to assess the views of pension funds and sponsor companies as they relate to their reactions to dynamic liability-driven investing (LDI) strategies and their desire to integrate this approach into their processes.

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Analysing Statistical Robustness of Cross-Sectional Volatility

Felix Goltz, Lionel Martellini, Stoyan Stoyanov:

Volatility is a statistical measure of the dispersion of returns for a given security or market index.

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The Local Volatility Factor for Asian Stock Markets

Lixia Loh, Lionel Martellini, Stoyan Stoyanov:

This study from EDHEC-Risk Institute, entitled "The Local Volatility Factor for Asian Stock Markets," has shown that using US VIX to hedge the volatility risk of Asian portfolios is not particularly effective.

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<u>Analysing and Decomposing the Sources of Added-Value of Corporate Bonds Within</u> Institutional Investors' Portfolios

Lionel Martellini, Vincent Milhau:

The present publication is drawn from the Rothschild & Cie research chair on "The Case for Inflation-Linked Corporate Bonds: Issuers' and Investors' Perspectives" at EDHEC-Risk Institute.

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The Benefits of Sovereign, Municipal and Corporate Inflation-Linked Bonds in Long-Term Investment Decisions

Romain Deguest, Lionel Martellini, Vincent Milhau:

This paper argues that inflation-linked bonds, in addition to being attractive for issuing corporations, are also attractive for investors such as pension funds facing long-term inflation-linked liabilities.

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Hedging versus Insurance: Long-Horizon Investing with Short-Term Constraints

Romain Deguest, Lionel Martellini, Vincent Milhau:

The present publication, "Hedging versus Insurance: Long-Horizon Investing with Short-Term Constraints," was produced as part of the BNP Paribas Investment Partners research chair at EDHEC-Risk Institute on "ALM and Institutional Investment Management".

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Smart Beta 2.0

Noël Amenc, Felix Goltz, Lionel Martellini:

Recent years have seen increasing interest in new forms of indexation, referred to as



Smart Beta strategies. Investors are attracted by the performance of these indices compared to traditional capweighted indices.

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Response to the European Commission White Paper "An Agenda for Adequate, Safe and Sustainable Pensions"

Noël Amenc, François Cocquemas, Lionel Martellini, Samuel Sender: After a short summary of some of the main challenges facing European pension systems, this paper discusses the Commission's proposals point by point.

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Long-Term Investing Strategies in Private Wealth Management

Noël Amenc, Romain Deguest, Lionel Martellini, Vincent Milhau: The authors argue in this paper that improved long-term investing strategies can be designed for private wealth management.

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The Benefits of Volatility Derivatives in Equity Portfolio Management

Renata Guobuzaite & Lionel Martellini

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<u>Dynamic Investment Strategies for Corporate Pension Funds in the Presence of Sponsor Risk</u>

The present publication is part of the BNP Paribas Investment Partners research chair at EDHEC-Risk Institute on "ALM and Institutional Investment Management".

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<u>Introducing the EDHEC-Risk Solvency Benchmarks - Maximising the Benefits of Equity Investments for Insurance Companies facing Solvency II Constraints</u>

The Solvency II Directive introduces a prudential framework for the computation of regulatory capital requirements for insurers.

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<u>Optimal Design of Corporate Market Debt Programmes in the Presence of Interest-Rate</u> and Inflation Risks

This paper provides a joint quantitative analysis of capital structure decisions and debt structure decisions within a standard continuous-time capital-structure model.

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Idiosyncratic Risk and the Cross-Section of Stock Returns

Whether average idiosyncratic volatility has recently risen, whether it is a good predictor for aggregate market returns and whether it has a positive relationship with expected returns in the cross-section are still matters of active debate.

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An Integrated Approach to Asset-Liability Management: Capital Structure Choices, Pension Fund Allocation Decisions and the Rational Pricing of Liability Streams

New EDHEC-Risk Institute Research Questions Current Corporate Pension Fund ALM Practices and Proposes a New Integrated Model for Analysing the Capital Structure of Corporate Sponsors and Pension Fund Allocation Decisions.

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Following a growing concern among investors about the quality of hedge fund index return data, and given the lack of capacity and transparency specific to that industry, this paper questions from an academic perspective whether it is feasible or not to design hedge fund benchmarks satisfying all defining properties for a good index.

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<u>From Deterministic to Stochastic Life-Cycle Investing: Implications for the Design of Improved Forms of Target Date Funds</u>

In an attempt to address the concern over financially illiterate individuals being increasingly responsible for investment decisions related to retirement risk, the financial industry has started to design dedicated mutual fund products known as target date funds.

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Improved Beta? A Comparison of Index-Weighting Schemes

This paper analyses a set of equity indices whose aim is to improve on capitalisation weighting and thus to provide "improved beta".

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Efficient Indexation: An Alternative to Cap-Weighted Indices

This paper introduces a novel method for the construction of equity indices that, unlike their cap-weighted counterparts, offer an efficient risk/return tradeoff.

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Improved Estimates of Higher-Order Comoments and Implications for Portfolio Selection

In the presence of non-normally distributed asset returns, optimal portfolio selection techniques require estimates for variance-covariance parameters, along with estimates for higher-order moments and comoments of the return distribution.

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<u>Measuring the Benefits of Dynamic Asset Allocation Strategies in the Presence of Liability Constraints</u>

The recent pension crisis has triggered a fierce debate in most developed countries between advocates of a tighter regulation designed to provide explicit incentives for pension funds to increase their focus on risk management, and those arguing that imposing short-term funding constraints and solvency requirements on such long-term

investors would only increase the cost of pension financing.

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Impact of Regulations on the ALM of European Pension Funds

This study analyses the impact of prudential and accounting constraints on the asset-liability management (ALM) of European pension funds in the Netherlands, the UK, Germany, and Switzerland.

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Static Allocation Decisions in the Presence of Portfolio Insurance

This paper attemps to determine what fraction a static investor should optimally allocate to investment strategies with convex exposure to stock market returns in a general economy with stochastically time-varying interest rates and stock market excess returns.

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Alternative Investments for Institutional Investors: Risk Budgeting Techniques in Asset Management and Asset-Liability Management

The present publication is the first to be drawn from the EDHEC/Morgan Stanley Investment Management research chair on Financial Engineering and Global Alternative Portfolios for Institutional Investors.

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Performance of Passive Hedge Fund Replication Strategies

In this paper we extend Hasanhodzic and Lo (2007) by assessing the out-of-sample performance of various non-linear and conditional hedge fund replication models.

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EDHEC European Investment Practices Survey

This survey assesses the current investment practices of asset management firms, institutional investors, and private wealth managers.

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The EDHEC European ETF Survey 2008

The survey we are pleased to present here is part of the EDHEC Risk and Asset Management Research Centre's Indices and Benchmarking research programme headed by Felix Goltz and Lionel Martellini.

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<u>Improved Forecasts of Higher-Order Co-moments and Implications for Portfolio Selection</u>

In the presence of non-normally distributed asset returns, optimal portfolio selection techniques require not only estimates of variance-covariance parameters, but also estimates of higher-order moments and comoments of the return distribution.

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A Copula Approach to Value-at-Risk Estimation for Fixed-Income Portfolios

This paper introduces a multivariate copula approach to Value-at-Risk estimation for fixed income portfolios.

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Extending Black-Litterman Analysis Beyond the Mean-Variance Framework

In this paper, we introduce a suitable extension of the Black-Litterman Bayesian approach to portfolio construction in the presence of non-trivial preferences about higher moments of asset return distributions.

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Derivatives Strategies for Bond Portfolios

In this paper, we examine how standard exchange-traded fixed-income derivatives (futures and options on futures contracts) can be included in a sound risk and asset management process so as to improve risk and return performance characteristics of managed portfolios.

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Exploiting Predictability in the Time-Varying Shape of the Term Structure of Interest Rates

This paper presents evidence of predictability in the time-varying shape of the U.S. term structure of interest rates using a robust recursive modelling approach based on a Bayesian mixture of multi-factor models.

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The Myths and Limits of Passive Hedge Replication

In this paper we provide a detailed critical analysis of various methodologies involved in the so-called passive replication of hedge fund returns, a subject that has sparked renewed interest following recent initiatives by major investment banks such as Merrill Lynch and Goldman Sachs.

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Revisiting Core-Satellite Investing - A Dynamic Model of Relative Risk Management

Noël Amenc, Philippe Malaise, Lionel Martellini: Tracking error is not necessarily bad. Just like with good and bad cholesterol, there is "good" tracking error, which refers to outperformance of a portfolio with respect to the benchmark, and "bad" tracking error, which refers to underperformance with respect to the benchmark.

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<u>Exchange-Traded Fixed-Income Derivatives in Asset Management and Asset-Liability Management</u>

In this paper, we examine how standard exchange-traded fixed-income derivatives (futures and options on futures contracts) can be made part of sound risk and asset management in such a way as to improve the risk and return performance characteristics of managed portfolios.

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Asset-Liability Management Decisions in Private Banking

Grâce à une croissance économique soutenue dans plusieurs régions du monde, l'industrie de la gestion privée s'est octroyée une place considérable dans le paysage financier mondial.

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The Impact of IFRS and Solvency II on Asset-Liability Management and Asset Management in Insurance Companiesm

The profound changes in the risk management of insurance companies, brought about by the increasing complexity and variety of risks over the last two decades, have made it necessary to revise prudential regulations (Solvency II) and to adapt the international accounting standards (IFRS)

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The EDHEC European ETF Survey 2006

In a new survey, The EDHEC European ETF Survey 2006, the EDHEC Risk and Asset Management Research Centre has carried out an in-depth study on the use of ETFs (Exchange-Traded Funds) by European investors. Download filesTYPE OF DOCUMENT: EDHEC PUBLICATION Towards the Design of Better Equity Benchmarks Rehabilitating the Tangency Portfolio from Modern Portfolio Theory Following recent research on the relevance of idiosyncratic risk in asset pricing models, Lionel Martellini proposes to use total volatility as a model-free estimate of a stock's excess expected return, and analyze the implications in terms of the design of improved equity benchmarks. Download filesTYPE OF DOCUMENT: WORKING PAPER Managing Pension Assets: from Surplus Optimization to Liability-Driven Investment In this paper, we consider an intertemporal portfolio problem in the presence of liability constraints. Download filesTYPE OF DOCUMENT: WORKING PAPER Static Mean-Variance Analysis with Uncertain Time Horizon We generalize Markowitz analysis to the situations involving an uncertain exit time. **Download files**TYPE OF DOCUMENT: WORKING PAPER From Delivering to the Packaging of Alpha In this paper, we emphasize the need for the hedge fund industry to adopt a consumer (investor)-driven approach, as opposed to the current producer (manager) perspective, and we call for the emergence of new types of offerings with characteristics better suited to the needs of institutional investors. **Download files**TYPE OF DOCUMENT: WORKING PAPER Hedge Funds from the Institutional Investor's Perspective As a consequence of its greater maturity, the hedge fund industry has extended its investor base to institutional investors, who are now faced with a large number of product offerings including not only single hedge funds, but also funds of funds and, more recently, investible indexes. **Download filesTYPE OF DOCUMENT: POSITION PAPER** How Costly Is Regulatory Short-Termism for Defined-Benefit Pension Funds? The recent pension crisis has triggered a fierce debate in most developed countries between advocates of tighter regulation designed to provide explicit incentives for pension funds to increase their focus on risk management and those arguing that imposing short-term funding constraints and solvency requirements on such long-term investors would only increase the cost of pension financing. **Download files**TYPE OF DOCUMENT : POSITION PAPER



<u>Taking a Close Look at the European Fund of Hedge Funds Industry- Comparing and</u>
Contrasting Industry Best Practices and Academic Recommendations

Over the last few years institutional investors' traditional portfolios have failed to meet their objectives in terms of risk and performance.

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Indexing Hedge Fund Indexes

Hedge funds currently represent nearly 700 billion dollars in managed assets.

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Asset Allocation

Noël Amenc, Lionel Martellini:

Two competing approaches are used in practice to build portfolios: bottom-up and top-down.

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The Alpha and Omega of Hedge Fund Performance Measurement

Noël Amenc, Lionel Martellini:

The fact that hedge funds are starting to gain wide acceptance while they still remain a somewhat mysterious asset class enhances the need for a better measurement of their performance.

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Portfolio Optimisation and Hedge Fund Style Allocation Decisions

Noël Amenc, Lionel Martellini:

This paper attempts to evaluate the out-of-sample performance of an improved estimator of the covariance structure of hedge fund index returns, focusing on its use for optimal portfolio selection.

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Dynamic Asset Pricing Theory with Uncertain Time-Horizon

Christophette Blanchet-Scalliet, Nicole El Karoui, Lionel Martellini:

This paper addresses the problem of pricing and hedging a random cash-flow received at a random date in a general stochastic environment.

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Be Active With Your Bond Trackers

Noël Amenc, Jean-René Giraud, Philippe Malaise, Lionel Martellini:

Newly launched fixed-income Exchange-Traded Funds (ETFs) have specifically been designed to track bond market indices, and share many of the same benefits of equity ETFs, including in particular lower costs, transparency, buying and selling flexibility, all day tracking and trading.

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An Integrated Framework for Style Analysis and Performance Measurement

Noël Amenc, Lionel Martellini, Daphné Sfeir:

In this paper, we propose an integrated framework for assessing the risk-adjusted performance of mutual fund managers.

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<u>Evidence of Predictability in Bond Indices and Implications for Fixed-Income Tactical Style Allocation Decisions</u>



Noël Amenc, Philippe Malaise, Lionel Martellini, Daphné Sfeir:

This paper presents strong evidence of predictability in various fixed-income style portfolio returns using a robust recursive modelling approach based on multi-factor models for the return on bond indices.

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Optimal Allocation to Hedge Funds: An Empirical Analysis

Jaksa Cvitanic, Ali Lazrak, Lionel Martellini, Fernando Zapatero: What percentage of their portfolio should investors allocate to hedge funds?

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On the Valuation and Incentive Effects of Executive Cash Bonus Contracts

Lionel Martellini, Branko Urosevic:

Executive compensation packages are often valued in an inconsistent manner: while employee stock options (ESOs) are typically valued ex-ante, i.e. before uncertainties are resolved, cash bonuses are valued ex-post, i.e. by discounting the realised cash grants.

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<u>Portable Alpha and Portable Beta Strategies in the eurozone: Implementing Active Asset Allocation Decisions using Equity Index Options and Futures</u>

Noël Amenc, Philippe Malaise, Lionel Martellini, Daphné Sfeir.

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Tactical Asset Allocation

Lionel Martellini, Daphné Sfeir:

Tactical Asset Allocation (TAA) broadly refers to active strategies that seek to enhance portfolio performance by opportunistically shifting the asset mix in a portfolio in response to the changing patterns of return and risk.

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Tactical Style Allocation - A New Form of Market Neutral Strategy

Noël Amenc, Philippe Malaise, Lionel Martellini, Daphné Sfeir: Even though there is little evidence of predictability in stock specific risk, most equity market neutral managers still rely on stock picking as the preferred way to generate

abnormal returns.

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Desperately Seeking Pure Style Indexes

Noël Amenc, Robert Faff, Lionel Martellini:

There is an urgent need for improved measurement and benchmarking of size and booktomarket (style) performance.

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