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Nota di contenuto	Preface -- An Interview with Ernst Eberlein -- Part I: Flexible Lévy-based models. E. A. v. Hammerstein: Tail behaviour and tail dependence of generalized hyperbolic distributions -- O. Barndorff-Nielsen: Gamma kernels and BSS/LSS processes -- M. Mandjes and P. Spreij: Explicit computations for some Markov modulated counting processes -- Part II: Statistics and risk -- H. Geman and B. Liu: The outlook of energy markets in 2015: introducing distances between forward curves -- D. Madan: Three non-Gaussian models of dependence in returns -- A. Kimura and N. Yoshida: Estimation of correlation between latent processes -- J. Beirlant, W. Schoutens, J. De Spiegeleer, T. Reynkens, and K. Herrmann: Hunting for black swans in the European banking sector using extreme value analysis -- E. Lütkebohmert-Holtz and Y. Xiao: Collateralized borrowing and default risk -- G. Stahl: Model uncertainty in a holistic perspective -- Part III: Derivative pricing, hedging, and optimization -- Ch. Bayer and J. Schoenmakers: Option pricing in affine generalized Merton models -- G. Jahncke and J. Kallsen: Approximate pricing of call options on the quadratic variation in Lévy models -- A. erný: Dynamic discrete-time hedging of barrier options under leptokurtic returns driven by an exponential Lévy model -- M. Musiela, E. Sokolova, and Th.

Zariphopoulou: Exponential forward indifference prices in incomplete binomial models -- M. Feodoria and J. Kallsen: Almost surely optimal portfolios under propotional transaction costs -- J. M. Corcuera, J. Fajardo, and O. Pamen: On the optimal payoffs -- L. Rüschendorf and V. Wolf: Construction and hedging of optimal payoffs in Lévy Models -- Part IV: Term-structure modelling -- I. Klein, Th. Schmidt, and J. Teichmann: No arbitrage theory for bond markets -- K. Glau, Z. Grbac, and Antonis Papapantoleon: A unified view of LIBOR models -- Z. Grbac, D. Krief, and P. Tankov: Approximate option pricing in the Lévy LIBOR model -- F. E. Benth: Cointegrated commodity markets and pricing of derivatives in a non-Gaussian framework.

Sommario/riassunto

This Festschrift resulted from a workshop on “Advanced Modelling in Mathematical Finance” held in honour of Ernst Eberlein’s 70th birthday, from 20 to 22 May 2015 in Kiel, Germany. It includes contributions by several invited speakers at the workshop, including several of Ernst Eberlein’s long-standing collaborators and former students. Advanced mathematical techniques play an ever-increasing role in modern quantitative finance. Written by leading experts from academia and financial practice, this book offers state-of-the-art papers on the application of jump processes in mathematical finance, on term-structure modelling, and on statistical aspects of financial modelling. It is aimed at graduate students and researchers interested in mathematical finance, as well as practitioners wishing to learn about the latest developments.