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Titolo	Applied Mathematics and Modelling in Finance, Marketing and Economics // edited by Said Melliani, Oscar Castillo, Abdelmajid El Hajaji
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ISBN	3-031-42847-1
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (245 pages)
Collana	Studies in Computational Intelligence, , 1860-9503 ; ; 1114
Disciplina	260
Soggetti	Engineering mathematics Engineering - Data processing Computational intelligence Social sciences - Mathematics Mathematical and Computational Engineering Applications Computational Intelligence Mathematics in Business, Economics and Finance
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	High-Precision Method for Space-Time-Fractional Klein-Gordon equation -- Construction of a bivariate C2 septic quasi-interpolant using the blossoming approach -- Solving fuzzy linear programming using the parametric form -- Dynamic and Static Simulated Annealing for solving the Multi-Objective k-Minimum Spanning Tree Problem -- Numerical model of underground flow through porous media using a finites volumes scheme -- Parameter estimation for GARCH (p, q) Models based on Kalman Filter -- Asymptotic error analysis of Kantorovich and degenerate kernel methods for Fredholm integral equations.
Sommario/riassunto	This book offers a comprehensive overview of the latest advancements in the field of applied mathematics as it relates to finance, marketing, and economics. It covers a range of topics including the effective utilization of applied mathematics and mathematical modeling in finance, economics, and marketing. Additionally, it explores the intersection between applied mathematics and practical applications in

various scientific fields. The book targets a multidisciplinary audience, fostering the exchange of diverse ideas and showcasing the broad appeal of different subjects. It delves into recent developments in areas such as mathematical modeling in finance, mathematical modeling in marketing, the modeling of financial and economic fundamentals (e.g., interest rates, asset prices), market behavior modeling, modeling market imperfections, pricing financial derivative securities, hedging strategies, numerical methods, and financial engineering. The book features selected contributions presented at the first edition of the International Conference in Applied Mathematics to Finance, Marketing and Economics, which took place at the National School of Commerce and Management in El Jadida, Morocco, from November 26 to 27, 2020.
