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Citak et al -- 8 Risk Modeling in Optimization Problems via Value at Risk, Conditional Value at Risk, and Its Robustification: Z. Cobandag and G.-W. Weber -- 9 Zero Limit for Multi-D Conservation Laws with Nonlinear Diffusion and Dispersion: J.M.C. Correia.-10 Modelling Consumer Preferences for Novel Foods: Random Utility and Reference Point Effects Approach: I. Dolgopolova et al -- 11 Corporate Asset Pricing Models and Debt Contracts: M. Dózsa and K. Janda -- 12 Direct and Inverse Variational Problems on Time Scales: A Survey: M. Dryl and D.F.M. Torres -- 13 An Alternative Method for Snow Cover Mapping on Satellite Images by Modern Applied Mathematics: S. Kuter et al -- 14 Dynamic Structural Econometric Modeling of the Ethanol Industry: C.-Y. Cynthia Lin -- 15 An Introduction to Coupling: A. O. Lopes -- 16 Extreme Weather, Biotechnology, and Corn Productivity: J.R. McFadden and J.A. Miranowski -- 17 The Use of LCA for the Development of Bioenergy Pathways: M.C. McManus -- 18 Optimal Control of Stochastic Hybrid Models in the Framework of Regime Switches: E. Savkuet al -- 19 State-Dependent Impulsive Neural Networks: M. Sayh and E. Yilmaz -- 20 Modelling Native and Invasive Woody Species: a Comparison of ENFA and MaxEnt Applied to the Azorean Forest:L. Dutra Silva et al -- 21 Using Bayesian Inference to Validate Plant Community Assemblages and Determine Indicator Species: L. Silva et al -- 22 Development of Allometric Equations for Estimating above-ground Biomass of Woody Plant Invaders: the Case of Pittosporum Undulatum in the Azores Archipelago: L. Borges Silva et al -- 23 Alternating Hadamard Series and Some Theorems on Strongly Regular Graphs: L.A. de Almeida Vieira and V. Moço Mano -- 24 Actuarial Present Value and Variance for Changing Mortality and Stochastic Interest Rates: B. Yildirim et al -- 25 Itô-Taylor Expansions for Systems of Stochastic Differential Equations with Applications to Stochastic Partial Differential Equations: F. Yilmaz et al.

Sommario/riassunto

The concepts and techniques presented in this volume originated from the fields of dynamics, statistics, control theory, computer science and informatics, and are applied to novel and innovative real-world applications. Over the past few decades, the use of dynamic systems, control theory, computing, data mining, machine learning and simulation has gained the attention of numerous researchers from all over the world. Admirable scientific projects using both model-free and model-based methods coevolved at today’s research centers and are introduced in conferences around the world, yielding new scientific advances and helping to solve important real-world problems. One important area of progress is the bioeconomy, where advances in the life sciences are used to produce new products in a sustainable and clean manner. In this book, scientists from all over the world share their latest insights and important findings in the field. The majority of the contributed papersfor this volume were written by participants of the 3rd International Conference on Dynamics, Games and Science, DGSIII, held at the University of Porto in February 2014, and at the Berkeley Bioeconomy Conference at the University of California at Berkeley in March 2014. The aim of the project of this book “Modeling, Dynamics, Optimization and Bioeconomics II” follows the same aim as its companion piece, “Modeling, Dynamics, Optimization and Bioeconomics I,” namely, the exploration of emerging and cutting-edge theories and methods for modeling, optimization, dynamics and bioeconomy. .