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Soggetti	Numerical analysis Computer science - Mathematics Discrete mathematics Mathematical statistics Mathematical optimization Numerical Analysis Discrete Mathematics in Computer Science Probability and Statistics in Computer Science Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Stochastic maximum principle for Hilbert space valued forward-backward doubly SDEs with Poisson jumps -- Efficient solvers for large-scale saddle point systems arising in feedback stabilization of multi-field flow problems -- Stochastic control of econometric models for Slovenia -- The optimal control of cellular communication enterprise development in competitive activity -- Simulation of acoustic wave propagation in anisotropic media using dynamic programming technique -- Efficient cardinality/mean-variance portfolios -- Two semi-Lagrangian fast methods for Hamilton-Jacobi-Bellman equations -- Dynamic sampling schemes for optimal noise learning under multiple nonsmooth constraints -- Exponential convergence to

equilibrium for nonlinear reaction-diffusion systems arising in reversible chemistry -- A high-order semi Lagrangian/finite volume scheme for Hamilton-Jacobi-Isaacs equations -- Simultaneous material and topology optimization based on topological derivatives -- Steady fluid-structure interaction using fictitious domain -- Sensitivity of the solution set to second order evolution inclusions -- Impulse control of standard Brownian motion: Long-term average criterion -- Impulse control of standard Brownian motion: Discounted criterion -- On target control synthesis under set-membership uncertainties using polyhedral techniques -- Application of the Fenchel theorem to the obstacle problem -- A penalization method for the elliptic bilateral obstacle problem -- Binary level set method for topology optimization of variational inequalities -- Nonlinear delay evolution inclusions on graphs -- Graphical Lasso Granger method with 2-levels-thresholding for recovering causality networks -- Right-hand side dependent bounds for GMRES applied to ill-posed problems -- PDE-driven shape optimization: Numerical investigation of different descent directions and projections using penalization and regularization -- Tomographic reconstruction of homogeneous 2d geometric model with unknown attenuation -- A control delay differential equations model of evolution of normal and leukemic cell populations under treatment -- More save optimal input signals for parameter estimation of linear systems described by ODE -- Exponential stability of compactly coupled wave equations with delay terms in the boundary feedback -- Model predictive control of temperature and humidity in heating, ventilating and air conditioning systems -- Regularization of linear-quadratic control problems with L1-control cost -- Deployment of sensors according to quasi-random and well distributed sequences for nonparametric estimation of spatial means of random fields -- On the diversity order of UW-OFDM -- Representation and analysis of piecewise linear functions in abs-normal form -- Efficient smoothers for all-at-once multigrid methods for Poisson and Stokes control problems -- Continuous-time local model network for a boost-pressure dynamics of a turbocharger.

Sommario/riassunto

This book is a collection of thoroughly refereed papers presented at the 26th IFIP TC 7 Conference on System Modeling and Optimization, held in Klagenfurt, Austria, in September 2013. The 34 revised papers were carefully selected from numerous submissions. They cover the latest progress in a wide range of topics such as optimal control of ordinary and partial differential equations, modeling and simulation, inverse problems, nonlinear, discrete, and stochastic optimization as well as industrial applications.
