

1. Record Nr.	UNINA9910809229503321
Titolo	Optimization theory and related topics : Israel mathematical conference proceedings, a workshop in memory of Dan Butnariu, January 11-14, 2010, Haifa, Israel / / Simeon Reich, Alexander J. Zaslavski, editors
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society Ramat Gan, Israel : , : Bar-Ilan University, , [2012] ©2012
ISBN	0-8218-8778-5
Descrizione fisica	1 online resource (296 p.)
Collana	Contemporary mathematics, ; 568 , 0271-4132
Classificazione	34-XX39-XX46-XX47-XX49-XX52-XX65-XX90-XX91-XX93-XX
Disciplina	519.6
Soggetti	Mathematical optimization Differential equations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface -- Biography and Bibliography of Dan Butnariu -- Conference Program -- Sensitivity Estimates Via Lyapunov Functions and Lyapunov Metrics -- 1. Introduction -- 2. Contraction-like mappings -- 3. Lyapunov metrics -- 4. Construction of Lyapunov metrics -- 5. Equivalence of the metrics -- 6. Error estimates for fixed points -- 7. Error estimates for trajectories -- References -- On the Maximal Monotonicity of the Sum of a Maximal Monotone Linear Relation and the Subdifferential Operator of a Sublinear Function -- 1. Introduction -- 2. Auxiliary Results -- 3. Main Result -- Acknowledgment -- References -- An Inverse Newton Transform -- 1. Introduction -- 2. Results -- 3. Examples -- 4. The logistic iteration -- 5. Complex iterations -- References -- Infinite-Horizon Discrete-Time Pontryagin Principles via Results of Michel -- 1. Introduction -- 2. Conditions and recall -- 3. Weak Pontryagin principles -- 4. Strong Pontryagin principles -- 5. Proof of Theorem 3.1 -- 6. Proof of Theorem 3.2 -- 7. Proofs of Theorem 4.1 and Theorem 4.2 -- References -- On Sharing of Risk and Resources -- 1. Introduction -- 2. An Example -- 3. Efficient Sharing under Possibly Non-convex Preferences -- 4. Risk Sharing -- 5. Efficient Sharing as a Differential System -- 6. Who should actively share? -- 7. Concluding Remarks -- References --

The Expected Retraction Method in Banach Spaces -- 1. Introduction -- 2. Definitions -- 3. The expected retraction operator -- 4. The relaxed expected retraction operator -- 5. ERM iterations -- References --

Solution of a Singular Optimal Control Problem with State Delays: A Cheap Control Approach -- 1. Introduction -- 2. Problem statement and main assumptions -- 3. Regularization of the OOC -- 4. Asymptotic solution of the CCP -- 5. Main results -- References --

Robust Reduction of Dimension of a Linear Programming Problem with Uncertainties: Implication for Robust Production and Technology Planning -- 1. Introduction -- 2. LP model -- 3. Box-constrained uncertainty -- 4. Finding redundant rows -- 5. Equivalent transformation -- 6. Robust upper bounds for dual variables -- 7. Lower bound for an objective -- 8. Who will get investments? -- 9. More lower bounds -- 10. More upper bounds -- 11. Finding redundant columns -- 12. Numerical examples -- 13. Conclusion -- References --

Descent Methods for Mixed Variational Inequalities with Non-Smooth Mappings -- 1. Introduction -- 2. Preliminaries -- 3. Properties of gap functions -- 4. Stationarity and construction of descent directions -- 5. Descent algorithm with exact linesearch -- 6. Descent algorithm with inexact linesearch -- 7. Modified descent algorithm with inexact linesearch -- 8. Combined descent and proximal point methods -- References.
