

CONTENTS

I. CONVEX AND NONSMOOTH ANALYSIS

Tensorial Convex Functionals and Applications <i>M. Atteia (France)</i>	3
Various Continuity Properties of the Deconvolution (Or Epigraphical Difference) <i>D. Azé and M. Volle (France)</i>	16
Implicit Functions and Regular Points in Quasidifferentiable Optimization <i>L. Kuntz (Germany)</i>	31
About the Convergence of the Proximal Method <i>B. Lemaire (France)</i>	39
Second-Order Generalized Derivatives: Comparisons of Two Types of Epi-Derivatives <i>J.-P. Penot (France)</i>	52
On Some Differentiability Problems <i>S. Rolewicz (Poland)</i>	77
Mixing Proximal Regularization, Penalization and Parallel decomposition in Convex Programming <i>P. Tossings (Belgium)</i>	85
II. SENSITIVITY ANALYSIS AND STABILITY	
Expansions of Exact and Approximate Solutions in Nonlinear Programming <i>J. F. Bonnans (France), A. D. Ioffe (Israel) and A. Shapiro (USA)</i>	103
Intersections of Lower Semi-Continuous Relations. Applications to the Stability of Constrained Saddle Points <i>J. Guillerme (France)</i>	118
Sensitivity Analysis for a Class of Convex Functions defined over a Space of Symmetric Matrices <i>J.-B. Hiriart-Urruty, A. Seeger (Spain) and D. Ye (France)</i>	133
Stability of Stationary Solutions in Semi-Infinite Optimization Via the Reduction Approach <i>D. Klatte (Germany)</i>	155
Newton's Method based on Generalized Derivatives for Nonsmooth Functions: Convergence Analysis <i>B. Kummer (Germany)</i>	171

III. NONSMOOTH OPTIMIZATION

- A Nondifferentiable Approach to Decomposable Optimization Problems with an Application to the Design of Water Distribution Networks 197
A. Ben-Tal, G. Eiger (Israel), J. Outrata (CSFR) and J. Zowe (Germany)
- Exact Auxiliary Functions in Non-Convex Optimization 217
Y. G. Evtushenko, V. G. Zhadan (USSR)
- Nonsmooth Problems in Calculus of Variations 227
V. F. Demyanov (USSR)
- Regularizations for Two-Level Optimization Problems 239
P. Loridan (France) and J. Morgan (Italy)
- Does the Special Choice of Quasidifferentials Influence Necessary Minimum Conditions? 256
B. Luderer (Germany)
- Superlinear Convergence in Convex Nondifferentiable Optimization 267
E. A. Nurminski (USSR)
- IV. CONTROL THEORY AND VARIATIONAL PROBLEMS
- Sequential Quadratic Programming in Banach Spaces 281
W. Alt (Germany)
- Synthesis of Optimal Discrete Control System 302
R. Gabasov, F. M. Kirillova and S. V. Prischepova (USSR)
- Iterative Processes for Solving Incorrect Convex Variational Problems 315
A. Kaplan (USSR) and R. Tichatschke (Germany)
- Filtering of Gaussian Stochastic Processes by Observations with Delays 330
V. B. Kolmanovskii and L. E. Shaikhet (USSR)
- On Moment Theory and Controllability 345
W. Krabs (Germany)
- Generalized Bernoulli Operator and Euler-Maclaurin Formula 355
D. Przeworska-Rolewicz (Poland)

V. VECTOR OPTIMIZATION AND GAME THEORY

- Exact Bang–Bang Optimal Control for Problems
with Nonlinear Costs 371
E. J. Balder (The Netherlands)
- Introduction to General Duality Theory for
Multi–Objective Optimization 384
S. Dolecki (France)
- Non–Cooperative Games; Methods of Subgradient
Projection and Proximal Point 406
S. D. Flåm (Norway) and G. H. Greco (Italy)
- Fenchel Duality in Vector Optimization 420
C. Malivert (France)

VI. APPLICATIONS

- A General Framework for the One Center Location Problem 441
R. Durier (France)
- On Stability for Semicoercive Variational Inequalities 458
Applied to Constrained Market Equilibria and Neumann–Signorini
Problems
J. Gwinner (Germany)
- On the Application of a Method of Reference Point 478
Approximation to Bicriterial Optimization Problems
in Chemical Engineering
J. Jahn, J. Klose and A. Merkel (Germany)
- Numerical Results on Computing the Vector in the Convex
Hull of a Finite Set of Points Having Minimal Length 492
C. M. Mueckeley (Germany)
- Min–Max Emergency Service Location Problems with
Additional Conditions 504
K. Zimmermann (CSFR)

VII. NOTES AND COMMENTS

- On a Minimax Approach to the Problem of Identification of
Dynamic Systems in the Presence of Uncertainty 515
V. F. Demyanov and V. V. Karelin (USSR)
- Adaptive Optimal Strategies in Controlled Markov Processes 518
V. V. Karelin (USSR)
- A Note on Constraint Qualifications in
Quasidifferentiable Programming 525
L. Kuntz and S. Scholtes (Germany)