

December 15, Sunday

Invited Talks

Session No.: SI1, Chair: Jianzhong Zhang

1. Michael Powell (University of Cambridge, UK)
Trust Region Algorithms for Minimization without Derivatives that Employ Least Frobenius Norm Updating of Quadratic Models

Session No.: SI2, Chair: Masao Iri

1. Laurence Wolsey (Catholic University of Louvain, Belgium)
Solving Multi-Item Lot-Sizing Problems with an MIP Solver Using Classification and Reformulation
2. Andrew Yao (Princeton University, USA)
Semidefinite Programming in Quantum Computation

Session No.: SI3, Chair: Enyu Yao

1. Yuri Evtushenko (Academy of Sciences, Russia)
New Perspective on the Theorems of Alternative
2. Toshihide Ibaraki (Kyoto University, Japan)
General Problem Solvers for Combinatorial Optimization Problems by Metaheuristics
3. Yinyu Ye (Stanford University, USA)
Improved Approximation Algorithms for Metric Facility Location Problems

Organized Sessions

Session No.: SO1C, Chair: Pham Dinh Tao

Title: Global Optimization Techniques via Reformulations, Smoothing Techniques and D. C. (Difference of Convex Functions) Programming (I)

1. P. HERMANNNS, Nguyen V. THOAI
Global Optimization of a Class of Nonlinear Bilevel Programming Problems
2. Le Thi Hoai AN
D. C. Programming for Solving a Class of Global Optimization Problems Via Reformulations by Exact Penalty
3. Le Thi Hoai AN, Pham Dinh TAO
Reformulation and D. C. Programming for Large Scale Molecular Optimization from Distance Matrices

Session No.: SO1E, Chair: Tamas Terlaky

Title: Self-Regular Interior Point Method

1. Xiaohang ZHU, Jiming PENG, Tamas TERLAKY, Guoqing ZHANG
Implementing the New Self-Regular Proximity Based IPMs
2. Jiming PENG
Large Neighborhood, Self-regular Proximity and Interior-Point Methods
3. Jiming PENG, Tamas TERLAKY, Guoqing ZHANG, Lois ZHU
A Self-Regular Proximity Based Infeasible IPM

Regular Sessions

Session No.: SR1A, Chair: Bingsheng He

Title: Complementarity Problems

1. Hongxia YIN, Jianzhong ZHANG
An Incomplete Active Set Algorithm for Mathematical Programs with Linear Complementarity Constraints
2. D. L. ZHU, Q. H. LU
The Augmented Lagrangian Dual Theory and Decomposition Methods for Generalized Equilibrium Problem
3. Fengming MA, Yiju WANG, Jianzhong ZHANG
A Nonsmooth L-M Method for the Solution of the Generalized Nonlinear Complementarity Problem
4. Jinbao JIAN, Yumei LIANG
A Generalized Projection Strongly Sub-feasible Direction Method for Optimization Problems with Linear Complementarity Constraints

Session No.: SR1B, Chair: Yaxiang Yuan

Title: Trust Region Method

1. Mingyan WANG
Trust Region Interior-point Methods for Semidefinite Constrained Nonlinear Equations
2. Jinyan FAN
Convergence Properties of a Self-Adaptive Levenberg-Marquardt Algorithm Under Local Error Bound Condition
3. Oleg BURDAKOV, Yaxiang YUAN
On Limited Memory Methods with Shape Changing Trust Region
4. Daoli ZHU
The Trust Region Method and Decomposition Methods for Nonlinear Bilevel Programming

Session No.: SR1D, Chair: Helmut Maurer

Title: Optimal Control (I)

1. Enmin FENG, Yanhua WEI
Global Optimization Algorithm for a Class of Optimal Control about Nonlinear Lumped Parameter System and Its Application
2. Jinghao ZHU, Kangdi LI
An Iterative Method for Solving Stochastic Riccati Equations for the Stochastic LQR Problem
3. Aghileh HEYDARI, Ali Vahidian KAMYAD, Mohammad Hadi FARAHI
A New Method for Solving Time Optimal Control Problems
4. Hao FENG, Wenming CAO, Shoujue WANG
Approximation and Classification with Direct Basis Function Neural Network

Session No.:SR1F, Chair: Jianming Shi

Title: Multi-Objective Programming and Dynamical Programming

1. Changfu CHEN, Yu YANG
A Hybrid Evolutionary Algorithm for Multi-Objective Optimization
2. Ziqi LIAO
A Multi-Objective Decision Model for Technology Planning
3. Xiufen ZOU, Xiaoqing GONG, Minzhong LIU, Lishan KANG
An Efficient Multi-Objective Evolutionary Algorithm Based on Partial Order Ranking
4. Oleg SHCHERBINA, Olga SHCHERBINA
Nonserial Dynamic Programming Algorithms in Discrete Programming

Session No.: SR2A, Chair: Florian Potra

Title: Unconstrained Optimization

1. Giovanni FASANO, Luigi GRIPPO, Marco SCIANDRONE
Nonmonotone Stabilization Techniques for the Two-Step Heavy-Ball Method
2. Giovanni FASANO, Stefano LUCIDI
Effective Computation of Negative Curvatures for the Convergence to Second Order Critical Points in Large Scale Unconstrained Optimization
3. Nikolay ZHURBENKO
The Conjugate-gradient Methods Using the Operation of Space Dilation

Session No.: SR2B, Chair: Naiyang Deng

Title: Fuzzy Optimization

1. Yu Ru SYAU
Some Extremum Properties of Convex Fuzzy Sets
2. Mei DING
The Judgement Problem of Bi-Direction Fuzzy Decision

Session No.: SR2C, Chair: Xiaodong Hu

Title: Combinatorial Optimization & Integer Programming (I)

1. Hadi Mohammadi BIDHANDI

A Mathematical Model for Project Time Compression Problems, and Develop a New Approach Based on the Surrogating Method

2. Jianbo QIAN, Xu LI

A New Algorithm for Minimum-Energy Broadcast Routing in Static Ad Hoc Wireless Networks

3. Yinfeng XU, Fengwu SHEN

The Problem of Optimal Integration of Star Structures as Subsystems

Session No.: SR2E, Chair: Toshihide Ibaraki

Title: Metaheuristic (I)

1. Philippe CODOGNET, Daniel DIAZ

Constraint-based Local Search for Discrete Optimization

2. Sheqin DONG, Xin QI, Ruijie WANG, Xianlong HONG, Jun GU

Search Space Smoothing with Consideration of Local Smoothing Effect and Its Application to VLSI Module Placement

3. Adria Ramos de LYRA, Luiz Satoru OCHI

Reduction Rules for the Prize Collecting Covering Tour Problems

Session No.: SR2F, Chair: Andreas Griewank

Title: Optimization Software (I)

1. Xiubin ZHANG, Bo GUO, Yuejin TAN

Software for Optimization of Condition Based Maintenance Policy

2. Fuli XIONG, Shurong LI, Weibo WANG, Xiaodong ZHANG, Yingjie GAI

OSOD--An Optimization System for Oil-field Development

3. Dong LI, Chao JIAO

Performing Firearm Identification Ballistic Database Operation on an Intranet

Session No.: SR3A, Chair: Luigi Grippo

Title: Constrained Optimization

1. Ubaldo GARCIA-PALOMARES

A Derivative-free Algorithm for Box-Constrained Optimization

2. Zhibin ZHU, Kecun ZHANG

A New Algorithm with Global Convergence for Nonconvex Nonlinear Programming

3. Gianni Di PILLO, Giampaolo LIUZZI, Stefano LUCIDI, Laura PALAGI

A Primal-dual Truncated Newton Algorithm for Large-scale Constrained Optimization Problems

Session No.: SR3B, Chair: Jiye Han

Title: Scheduling and Application

1. Erwin PESCH
Scheduling Personnel for Press Machines in the Automotive Industry
2. Guangzhong SUN, Guoliang CHEN, Yuzhu ZHAO
Distributed Job Scheduling in Ring Networks
3. Teresa WU, Nong YE, Dawei ZHANG
Distributed Approaches to Task Allocation

Session No.: SR3C, Chair: Andrew Yao

Title: Combinatorial Optimization & Integer Optimization (II)

1. Yihua LI
An Approach for General Routing and Scheduling Problems
2. Qinghua LI, Youlin RUAN, Kenli LI, Shida YANG
An Optimal Scheduling Algorithm for Fork-Join Task Graphs
3. Fenglin ZHANG, Bo GUO
Rerouting Strategies and Their Availability Performance Analysis in a Transportation Network

Session No.: SR3E, Chair: Lawrence Wolsey

Title: Metaheuristic (II)

1. Yijia CAO, Jingui LU
On the Optimal Size of Subpopulation in Parallel Genetic Algorithms
2. Zhihua CUI, Jianchao ZENG
Schema Theorem Studying of Real-Coded Nonlinear Genetic Algorithm
3. Changfu CHEN, Xiaonan GONG
Chaos-mutation-based Colony Algorithm for Multistage Decision Problem

Session No.: SR3F, Chair: Zhiquan Luo

Title: Optimization Application (I)

1. Sweechuan TAN
An Object-Oriented Timetabling Framework
2. Qingjun ZENG, Fang XIAO
Analysis on Establishment of Multi-Objective Optimal Distribution Scheme of Water Resource
3. Jianhua MA, Mei DING
The Bilevel Programming Model of Water Resource Location

December 16, Monday

Invited Talks

Session No.: MI1, Chair: Oleg Burdakov

1. Leonid Khachiyan (Rutgers University, USA)
Generating Dual-Bounded Hypergraphs
2. Panos Pardalos (University of Florida, USA)
Recent Advances in Global Optimization
3. Stefan Scholtes (University of Cambridge, UK)
Nonlinear Programs with Combinatorial Constraints

Session No.: MI2, Chair: Jie Sun

1. Christian Kanzow (University of Wurzburg, Germany)
Preconditioning of Inexact Nonsmooth Newton Methods for Mixed Complementarity Problems
2. Florian Potra (University of Maryland, USA)
A Superlinearly Convergent Predictor-Corrector Method for Degenerate LCP in a Wide Neighborhood of the Central Path with $O(\sqrt{n}L)$ -iteration Complexity

Session No.: MI3, Chair: Leonid Khachiyan

1. Masao Fukushima (Kyoto University, Japan)
A Sequential Quadratically Constrained Quadratic Programming Method for Differentiable Convex Minimization
2. Florian Jarre (University of Dusseldorf, Germany)
An Approach to Nonlinear Semidefinite Programs
3. Paul Tseng (University of Washington, USA)
On the EM Algorithm

Organized Sessions

Session No.: MO1C, Chair: Pham Dinh Tao

Title: Global Optimization Techniques via Reformulations, Smoothing Techniques and D.C. (Difference of Convex Functions) Programming (II)

1. Dinh Nho HAO, Le Thi Hoai AN, Pham Dinh TAO
D.C. Programming Approach to Tikhonov Regularization for Non-linear Ill-Posed Problems
2. K. SEKITANI, J. SHI
An Algorithm for Maximizing the Sum of Several-Quadratic-Ratios Problems
3. Jinbao JIAN, Yi QIN
Correct Some Mistakes for E-Convex Functions and E-Convex Programming

Session No.: MO1D, Chair: Ursula Felgenhauser

Title: Optimality Properties and Stability in Control Theory and Applications (I)

1. Vladimir VELIOV

Optimization of Bundles of Control Systems: Numerical Analysis

2. H. Georg BOCK, Ekaterina KOSTINA, Stefan KORKEKEL, Johannes P. SCHLODER

Numerical Methods for Optimal Control Problems in Design of Robust Optimal Experiments

3. Hans Joachim OBERLE

Optimal Aeroassisted Orbital Transfers in the Presence of Heating Constraints

Session No.: MO1F, Chair: Xiaotie Deng, Zhongfei Li

Title: Optimization in Finance (I)

1. Hui HUANG, Shunming ZHANG

Arbitrage-Free and Approximately Arbitrage-Free Asset Pricing in Frictional Markets

2. Huimin YANG, Zhongfei LI

Multiperiod Mean-Variance Frontiers for Portfolios of Assets and Liability

3. Yong ZENG, Hui XIA

Technology Innovation Strategic Investment of Asymmetric Firms under Imperfect Competition

Regular Sessions

Session No.: MR1A, Chair: Masao Fukushima

Title: Variational Inequalities and Complementarity Problems

1. Yunda DONG

A New Approximation Criterion Ensuring Globally Superlinear Convergence of PPA for a Class of VIPs

2. Nanjing HUANG, Yaping FANG

Iterative Methods for Generalized Nonlinear Mixed Variational-Like Inequalities

3. Bingsheng HE, Xiaoming YUAN, Jianzhong ZHANG

Comparison of Two Kinds of Prediction-Correction Methods for Monotone Variational Inequalities

4. Jianling LI, Jinbao JIAN

An Algorithm of Sequential System of Linear Equations for Optimization Problems with Complementarity Constraints

Session No.: MR1B, Chair: Ubaldo Garcia-Palomares

Title: Linear Programming

1. Dennis CHEUNG, Felipe CUCKER, Javier PENA
Complexity, Condition, and Round-off in Linear Programming
2. Pingqi PAN
A Pivot Affine Scaling Algorithm for Linear Programming
3. Xingsi LI, Shaohua PAN, Peiai ZHANG
On Algebraically Equivalent Paths for Linear Program
4. Pingqi PAN, Wei LI, Yong WANG, Tao CHEN
A Phase-I Algorithm Using the Most-Obtuse-Angle Rule for the Basis-Deficiency-Allowing Dual Simplex Method

Session No.: MR1E, Chair: Jianzhong Zhang

Title: Inverse Problem and Network Optimization

1. Xiaoguang YANG, Jianzhong ZHANG
An Inverse Optimal Value Problem for Minimum Spanning Tree
2. Binwu ZHANG, Yong HE
Constrained Bottleneck Inverse Minimum Spanning Tree Problems under Hamming Distance
3. Hui KONG, Guiying YAN
An Algorithm for Phylogenetic 5-Root Problem
2. Jianguo WANG, Teng LONG, Peikun HE
On Determining the Ranked Set of Matchings

Session No.: MR2A, Chair: Stefano Lucidi

Title: Nonlinear Optimization (I)

1. Giovanni FASANO, Francesco LAMPARIELLO, Marco SCIANDRONE
A Truncated Nonmonotone Gauss-Newton Method for Large-Scale Nonlinear Least-Squares Problems
2. Dongdong LEI, John C MASON
Minimax Approximation from a Least Squares Solution
3. Ulrich BRANDT-POLLMANN
Optimization of Discontinuous Dynamical Models

Session No.: MR2B, Chair: Yinyu Ye

Title: Interior Point Method and MPEC

1. Enitan OBASANJO, Berc RUSTEM
An Interior Point Algorithm for Large-Scale Nonlinear (Nonconvex) Minimax Problems
2. Shaohua PAN, Xingsi LI
A Self-Correcting Primal-Dual Interior Point Method for LPs
3. Hongxia YIN, Jianzhong ZHANG
Approximation Method with Adaptive Smoothing for Mathematical Programs with Complementarity Constraints

Session No.: MR2C, Chair: Panos Padarlos

Title: Combinatorial Optimization & Integer Programming (III)

1. Yong HE, Ting CHEN
Optimal Algorithms for Recombination Distance Problem
2. Weimin MA, Yinfeng XU, Kanliang WANG
On the On-Line Newsboy Problem
3. Heng LIANG, Xiaoyan LIU, Fengshan BAI
An NP-Hard Problem in Multi-homogeneous Homotopy Method

Session No.: MR2D, Chair: Vladimir Veliov

Title: Optimal Control (II)

1. Hadi BASIRZADEH, Ali Vahidian KAMYAD
An Approach for Solving a Moving Boundary Problem
2. Aiguo LI, Zheng QIN, Fumin BAO
Agent Group Optimization
3. Vaidyanathan SIVARAMAN
Using Towers of Hanoi Problem for Mathematical Theorem Proving

Session No.: MR2E, Chair: Jie Sun

Title: Network Optimization (I)

1. Bruno Bastos LIMA, Fernando Lourenco Pinho COSTA, Luiz Satoru OCHI
Metaheuristics Based on Genetic Algorithm and GRASP for the Generalized Minimal Spanning Tree Problem
2. Vaidyanathan SIVARAMAN
A Thorough Analysis of the Variations, Algorithm and Applications of Chinese Postman Problem
3. Haiyan LU
Algebraic Equations of Vertex Coloring of a Planar Graph

Session No.: MR2F, Chair: Xiaoguang Yang

Title: Optimization Software (II)

1. Toni Chao JIAO, Dong LI
Intranet Ballistic Image Database Optimization
2. Caijun XUE, Qingying QIU
A Distributed Collaborative Optimization System for Products Development
3. Jianxin CHEN
An Introduction of Giant and Highly Nonlinear Mathematical Programming Software Package

Session No.: MR3A, Chair: Florian Jarre

Title: Nonlinear Optimization (II)

1. Jinghao ZHU
Some Results on Quadratic Optimizations
2. Petro STETSYUK
On a Modification of Ellipsoid Method
3. Zhenjun SHI
Solving Constrained Optimization by Parametric Control Techniques

Session No.: MR3B, Chair: Yong He

Title: Scheduling and Bin-Packing

1. Tianping SHUAI
On-Line Variable-Sized Bin-Packing Problems with Kernels
2. Hu ZHANG
Packing: Scheduling, Embedding and Approximating
3. Defu ZHANG
A Fast Algorithm for Job Shop Scheduling Problem

Session No.: MR3C, Chair: Masao Iri

Title: Combinatorial Optimization & Integer Programming (IV)

1. Kenli LI, Qinghua LI
A Polynomial Algorithm for Integer Programming with a Fixed Number of Variables
2. Lianshuan SHI, Shan CHAI, Huanchun SUN
A Sequential Delimitative and Combinatorial Algorithm for a Class of Integer Programming
3. Lihui SUN, Yinfeng XU
Cooperation Games Model and Its Application

Session No.: MR3D, Chair: H. Georg Bock

Title: Optimal Control (III)

1. Wencheng ZHAO, Feng LIN, Shujun LIU
The Improvement of Kalman Filter When the Mathematic Model of a System Should Be Unknown
2. Wenming CAO, Hao FENG, Shoujue WANG
Recognition of Unconstrained Handwritten Numerals by a Direct Basis Function Neural Network Classifier
3. Yanhua WEI, Enmin FENG
A Global Optimal Algorithm for Designing Trajectory in Horizontal Well and Its Application

Session No.: MR3E, Chair: Yinfeng Xu

Title: Metaheuristic (III)

1. Chengdong WANG, Youyun ZHANG
Adaptive Real-Coded Genetic Algorithm
2. Zhihua CUI, Jianchao ZENG
Mechanism Analysis of Genetic Algorithm Based on Distance Space
3. Jingsong HU, Qilun ZHENG
CMAC Fuzzy-Neural Network Based on Double Processes Simulated Annealing

Session No.: MR3F, Chair: Horst Hamacher

Title: Optimization Application (II)

1. D.G. LI, A.C. WATSON
Optical Coating Design by Global Optimisation
2. Nalan GULPINAR, Berc RUSTEM
Worst-Case Optimal Robust Decisions for Multi-Period Portfolio Optimization
3. Stefan KORKEL, Ekaterina KOSTINA
Optimum Experimental Design for Nonlinear Dynamic Processes

December 18, Wednesday

Invited Talks

Session No.: WI1, Chair: Michael Powell

1. Andreas Griewank (Dresden University of Technology, Germany)
On Constrained Optimization by Adjoint Based Quasi-Newton Methods
2. Luigi Grippo (University of Roma, Italy)
Nonmonotone Derivative-Free Methods for Unconstrained Optimization
3. Yaxiang Yuan (Academy of Sciences, China)
Linear Systems Associated with Numerical Methods for Constrained Optimization

Session No.: WI2, Chair: Yuri Evtushenko

1. Horst Hamacher (University of Kaiserslautern, Germany)
Optimization Methods in Cancer Radiation Therapy
2. Zhiquan Luo (McMaster University, Canada)
Efficient Relaxation Methods for Maximum Likelihood Detection of Constant Modulus Signals

Session No.: WI3, Chair: Yinyu Ye

1. Cornelis Roos (Delft University of Technology, Holand)
New Search Directions for Primal-Dual Interior-Point Methods
2. Tamas Terlaky (McMaster University, Canada)
Dynamic Update Self-Regular IPMs
3. Takashi Tsuchiya (Institute of Statistical Mathematics, Japan)
A New Iteration-Complexity Bound for the MTY Predictor-Corrector Algorithm

Organized Sessions

Session No.: WO1C, Chair: Paul Tseng

Title: Iterative Methods for Nonlinear Programming & Variational Inequalities

1. Donghui LI
A Robust Nonsmooth Newton Method for Variational Inequalities
2. Biao QU, Changyu WANG, Jianzhong ZHANG
Convergence and Error Bound of a Method for Solving Variational Inequality Problems via Generalized D-Gap Function
3. Naihua XIU, Changyu WANG
On the Gradient Projection Method with Exact Step Size Rule

Session No.: WO1D, Chair: Ursula Felgenhauser

Title: Optimality Properties and Stability in Control Theory and Applications (II)

1. Heinz SCHAETTLER, Paolo RINALDI
Minimization of the Base Transit Time in HBTs Using Optimal Control
2. Urszula LEDZEWICZ, Heinz SCHAETTLER
A Comparison of Optimal Controls for a Model in Cancer Chemotherapy with L1 and L2-type Objectives
3. Helmut MAURER
Sufficient Optimality Conditions and Sensitivity Analysis for Bang--Bang Control Problems

Session No.: WO1F, Chair: Xiaotie Deng, Zhongfei Li

Title: Optimization in Finance (II)

1. Jichang DONG, Wenhua HOU, K. K. LAI, Shouyang WANG
Multicriteria Decision for Portfolio Selection Using Interval Number
2. Jiping YANG
An Expected Utility-entropy Decision Making Model and Its Application in Securities Investment
3. Donghan CAI
An Optimal Economic Growth Model with Human Capital and R&D

Regular Sessions

Session No.: WR1A, Chair: Nguyen Thoai

Title: Global Optimization

1. Zaien HOU, Kecun ZHANG, Yanjun WANG
The Global Optimization of Bernstein Polynomial in a Simplex
2. J. S. HUNJAN, S. SARKAR, R. RAMASWAMY
Homotopy Method for Global Optimization
3. Yanjun WANG, Kecun ZHANG
Global Optimization of Generalized Geometric Programming
4. Xiaofei HUANG
A Cooperative Search Approach for Global Optimization

Session No.: WR1B, Chair: Stefan Scholtes

Title: Semi-Infinite Programming and Support Vector Machine

1. A. Ismael F. VAZ, Edite M.G.P. FERNANDES, M. Paula S.F. GOMES
A Quasi-Newton Interior Point Method for Semi-infinite Programming
2. Friedrich JUHNKE
Affine Excentricity via Semi-Infinite Optimization
3. Stefano LUCIDI, Laura PALAGI, Marco SCIANDRONE
Convergent Decomposition Techniques for Large Scale Convex Quadratic Programming Problems
4. Kai SUN, Yaxiang YUAN
A Fast and Accurate Algorithm for Support Vector Machine

Session No.: WR2A, Chair: Yuri Evtushenko

Title: Computing of Optimization

1. Koichi KUBOTA, Tatsuo YAMAGUCHI, Tomoshige FUNASAKI, Nozomu NAKATSU, Masayuki KIMURA
Numerical Computation System for Nonuniform Arbitrary Precision Arithmetics
2. Naiyang DENG, Haibin ZHANG
A New Inexact Tangent Hyperbolas Method
3. Bingsheng HE
Computing the Constrained Shortest Network under a Given Topology

Session No.: WR2B, Chair: Erwin Pesch

Title: Scheduling

1. Feng CHEN, Liangsheng ZHANG
Semi-Definite Relaxation Algorithm for Single Machine Scheduling with Controllable Processing Times
2. Zhaosheng ZHANG
Minimizing Total Weighted Completion Time on Single Batch Processing Machine Problem Formulated as Mathematical Programs
3. Qiangsheng HUA, Zhigang CHEN, Jianer CHEN
A New Method on Independent Task Scheduling under Non-Linearly Clustering

Session No.: WR2C, Chair: Enyu Yao

Title: Combinatorial Optimization & Integer Programming (V)

1. Jianguo WANG, Peikun HE, Teng LONG
The Shortest Augmenting Path Algorithm For Maximum Likelihood Data Association Problem
2. Fengwu SHEN, Yinfeng XU, Zhijun ZHU
Multiplayer Star Structure System Integration
3. Conrado BALTAZAR, Augusto HERMOSILLA
Determination of Optimal GA Parameters Using Response Surface Methodology

Session No.: WR2D, Chair: Urszula Ledzewicz

Title: Optimal Control (IV)

1. Ursula FELGENHAUSER

On Sensitivity Results for Bang-Bang Type Controls of Linear Systems

2. Seid Abolfazl ALAVI

Using Measure Theory to Solve Optimal Control Problems with State Constraints Governed by Distributed Systems

3. Hadi BASIRADEH, Ali Vahidian KAMYAD

An Approach for Solving Nonlinear Programming Problems

Session No.: WR2E, Chair: Qifan Yang

Title: Network Optimization (II)

1. H. S. LUNGE

On Multicommodity Flow Problems with Decomposition Method

2. Fenglin ZHANG, Bo GUO, Zhengming WANG

Optimizing Paths under the Restriction of Infinite Material Transmitted in a Network

3. Gengui ZHOU, Yihua ZHU, Xiaobin WENG

A Genetic Algorithm Approach on a Capacitated Network Design Problem with Tree Topology Structure

Session No.: WR2F, Chair: Oleg Burdakov

Title: Optimization Software (III)

1. Nikolay ZHURBENKO, Viktor MIROSHNYTCHENKO, Jury LAPTIN

The Software for Planning Cargo Rail Transportation and Development of Transport System

2. D.G. LI, A. C. WATSON

Multi-Variable Optical Thin-film Design Software with DGL Global Optimization

3. B.L.VIKAS, R.VENKATESH

Development of Software Package for Project Management Using CPM and PERT With Simulation

Session No.: WR3A, Chair: Takashi Tsuchiya

Title: Nonlinear Optimization (III)

1. Jinbao JIAN, Yimei LIANG

Finitely Convergent Algorithms of Sequential Systems of Linear Equations for Systems of Nonlinear Inequalities

2. Stefano LUCIDI, Veronica PICCIALLI

New Classes of Globally Convexized Filled Functions for Global Optimization

3. Giampaolo LIUZZI, Stefano LUCIDI, Veronica PICCIALLI, Marco SCIANDRONE

Algorithm Model for Mixed Variable Programming

Session No.: WR3B, Chair: Conelis Roos

Title: Interior Point Method

1. Detong ZHU
A New Interior Point Algorithm for Linear Constrained Optimization Subject to Bounds on Variables
2. Hui HUANG
An Interior-Point Algorithm for Bilevel Linear Programming
3. Yunbin ZHAO
On a Class of Interior-Point Algorithms for Linear Programming

Session No.: WR3D, Chair: Heinz SCHAETTLER

Title: Optimal Control (V)

1. Mohammad Hadi FARAH, Ali Vahidian KAMYAD, Masoud BAGHBAN
Using Measure Theory in Time Optimal Control Problems for Fixed and Moving Targets
2. Sohrab EFFATI
An Approach for Solving Parametric Differential Equations
3. Argenes SIBURIAN, Volker REHBOCK
A Numerical Procedure for Solving a Class of Optimal Singular Control Problems

Session No.: WR3E, Chair: Enming Feng

Title: Network Optimization (III)

1. Fenling ZHANG, Bo GUO, Zhengming WANG
Optimizing Paths under the Restriction of Infinite Material Transmitted in a Network
2. Weixiong ZHA, Guilin XIONG
The Optimization Model and Heuristic Algorithm of Urban Public Traffic Assignment
3. Kun WANG, Yinlong XU, Guoliang CHEN
Routing Stability of GPS Based Routing Protocol for Large Scale MANET

Session No.: WR3F, Chair: Christian Kanzow

Title: Optimization Application (III)

1. S. K. MISHRA, Hem RAJ
Optimization in Communication and Data Transfer Using Lasers; Without Optical Fibre (Free Space Optics)
2. Jie SHEN, David YOON
A Scheme of Constant Surface Normal Flow for Shape Optimization of Large-scale Polygonal Meshes
3. Qinghua LI, Shida YANG, Youlin YUAN
A New Three-Dimension Reconstruction Algorithm of Grayscale Serial Slices