

4th International Conference on High Performance Scientific Computing
March 2-6, 2009 - Hanoi, Vietnam

TENTATIVE SCIENTIFIC PROGRAM

| Monday, March 2, 2009 | | | | |
|------------------------------|--|---|---|---|
| 07:30-09:20 | Registration | | | |
| 09:20-09:40 | Opening – Room 301 | | | |
| 09:45-10:30 | Plenary Session P1 – Room 301 Chair: M. Grötschel L. Lovász <i>Mathematical Problems of Very Large Networks</i> | | | |
| 10:30-10:50 | Coffee break | | | |
| 10:50-11:20 | Session A1 (MS) – Room 301 Chair: R. E. Bixby K. Vesztegombi <i>Limits of Randomly Grown Graph Sequences</i> | Session B1 (MS) – Room 201 Chair: T. Carraro S. Körkel <i>Advances in Methods for Optimum Experimental Design</i> | Session C1 (MS) – Room 303 Chair: M. Hegland J. Garcke <i>Dimension Adaptive Sparse Grids for Machine Learning</i> | Session D1 – Room 304 Chair: D. Q. A A. E. Kovtanyuk and I. V. Prokhorov <i>Mathematical Modeling of Polarized-radiation Transfer and its Applications in Computer Tomography</i> |
| 11:20-11:50 | R. Borndörfer , M. Grötschel , and N. D. Hoang <i>Cost Allocation Problem: Fair Ticket Prices in Public Transport</i> | S. F. Walter <i>Role and Applications of Higher Order Derivatives in Optimal Design of Experiments</i> | M. Griebel and J. Braun <i>A Superposition Model for Function Reconstruction from Data Samples in Higher Dimensions</i> | T. T. Tinh , N. A. Thi , and D. T. Son <i>Development of Three Dimensional Euler Solver Using Finite Volume Method on Multiblock Structured Grid</i> |
| 11:50-12:20 | M. Grötschel <i>Combinatorial Problems in Infrastructure Planning</i> | R. Eils , J. Keienburg , C. Hoffmann , and H. G. Bock <i>Crucial Experimental Aspects for Designing Optimal Experiments in Systems Biology</i> | L. Gross , C. Altinay , A. Amirbekyan , J. Fenwick , P. Hornby , T. Poulet , H. A. Sheldon , and K. Steube <i>Solving Transport Problems for the Exploration of Mineral Deposits and Geothermal Reservoirs</i> | A. D. Garnadi and T. Hohage <i>Electrical Conductance Image Reconstruction using Iteratively Regularized Gauss-Newton (IRGN) Algorithm</i> |

Monday, March 2, 2009

| | | | | |
|-------------|--|--|---|--|
| | Session A2 – Room 301 | Session B2 (MS) – Room 201 | Session C2 (MS) – Room 303 | Session D2 – Room 304 |
| 14:00-14:30 | Chair: G. L. Nemhauser H. Tuy <i>D(C)-Optimization and Robust Global Optimization</i> | Chair: S. Körkel H. Arellano-Garcia , T. Barz, and G. Wozny <i>Model-based Experimental Analysis for the Determination of Nonlinear Adsorption Isotherms</i> | Chair: L. Gross M. Hegland <i>Approximating Solutions of the Master Equation</i> | Chair: P. K. Anh V. N. Phat <i>Exponential Stability of Functional Differential Equations and Applications in Control Theory</i> |
| 14:30-15:00 | J. B. Lasserre <i>Convex Programming with SOS-Convex Polynomials</i> | J. C. Schöneberger , H. Arellano-Garcia, H. Thielert, and G. Wozny <i>Systematic Validation of Kinetic Models for Heterogeneous Catalysed Gas Phase Reactions</i> | M. Hegland and C. F. Khoo <i>Applying Singular Perturbation Analysis to the Numerical Solution of the Chemical Master Equation</i> | S. L. Campbell and V. H. Linh <i>Stability Criteria for Differential-Algebraic Equations with Multiple Delays and Their Numerical Solutions</i> |
| 15:00-15:30 | H. H. Vui and P. T. Son <i>Solving Polynomial Optimization Problems via the Truncated Tangency Variety and Sums of Squares</i> | T. Carraro <i>Adaptive Finite Elements for Optimal Experimental Design</i> | Y. Sato and H. Okuda <i>Distributed Stochastic Finite Element on a Desktop Grid</i> | N. Kamikawa and H. Umeo <i>Real-Time Generation Algorithms for Linear-Recursive Sequences on Cellular Automata</i> |
| 15:30-15:50 | Coffee break | | | |
| | Session A3 – Room 301 | Session B3 – Room 201 | Session C3 – Room 303 | Session D3 – Room 304 |
| 15:50-16:20 | Chair: R. Schultz G. L. Nemhauser <i>Scheduling On Demand Passenger Air Service</i> | Chair: K. Roos C. Puhl <i>Recoverable Robust Shortest Path Problems</i> | Chair: A. Y. Chebotarev D. Q. A <i>Iterative Method for Solving Strongly Mixed Boundary Value Problems for Biharmonic Equations</i> | Chair: N. X. Tan P.-D. Truc , T. H. Nguyen, and L. Don Vo <i>Fuzzy-Pi Speed Controller for High Performance of Multi-Motor Drive System</i> |
| 16:20-16:50 | M. Minoux, M. T. Ngo, and N. V. Hung <i>A Benders Decomposition Method for the Signal-Optimization Problem in Traffic Light</i> | N. T. Hiep and P. T. Cat <i>Neural Adaptive Computed Torque Control for Robot Manipulators</i> | V. V. Quang and D. Q. A <i>Domain Decomposition Method for Strongly Mixed Boundary Value Problems for Poisson Equations</i> | B. C. Cuong, L. Q. Phuc, and N. T. A. Binh <i>A Combination of Context-Fuzzy Clustering Method and Learning with Forgetting Algorithm in a Neural Network Model to Generating Fuzzy Rules</i> |
| 16:50-17:20 | | | G. Of, P. X. Thanh , and O. Steinbach <i>Boundary Element Methods for Dirichlet Boundary Control Problems</i> | A talk of P. D. Hung was scheduled at this place, but it was neither cancelled nor presented. |

Tuesday, March 3, 2009

| | | | | |
|--|---|--|--|--|
| <p>09:00-09:45</p> <p>09:45-10:30</p> | <p>Plenary Session P2 – Room 301</p> <p>Chair: R. Jeltsch</p> <p>A. Quarteroni <i>Mathematical Modeling in Medicine, Sports, and Technology</i></p> <p>R. Eils, J. Keienburg, C. Hoffmann, J. P. Schlöder, and H. G. Bock <i>Optimal Experimental Design in Computational Systems Biology</i></p> | | | |
| <p>10:30-10:50</p> | <p>Coffee break</p> | | | |
| <p>10:50-11:20</p> <p>11:20-11:50</p> <p>11:50-12:20</p> | <p>Session A4 – Room 301</p> <p>Chair: P. Deuffhard</p> <p>R. Jeltsch, R. Hiptmair, P. Hugueniot, H. Kumar, C. Schwab, M. Torrilhon, and V. Wheatley <i>Numerical Simulation of Compressible Magnetohydrodynamic Plasma Flow in a Circuit Breaker</i></p> <p>G. Bayada <i>Free Boundary Problems in Thin Film Hydrodynamic Lubrication Problems</i></p> <p>H. Kalisch, T.-N. Nguyen, and H. Y. Nguyen <i>Numerical Study of Solitary Wave Solution to the BBM Equation</i></p> | <p>Session B4 – Room 201</p> <p>Chair: C. A. Floudas</p> <p>D. Beigel, H. G. Bock, and J. P. Schlöder <i>Balancing Efficiency and Accuracy in the Solution of Optimal Control Problems</i></p> <p>T. Kraus, P. Kühl, and M. Diehl <i>A Complete NMPC Solution of the Tennessee Eastman Benchmark Problem for Plantwide Control</i></p> <p>A. Potschka, J. P. Schlöder, and H. G. Bock <i>Optimizing Periodic Adsorption Processes: A Newton-Picard Inexact SQP Method</i></p> | <p>Session C4 – Room 303</p> <p>Chair: L. D. Muu</p> <p>C. Vilsineewan, S. Siripant, and W. Meckvichai <i>Model of Peacock Tail Feather Based on Its Microscopic Structure</i></p> <p>S. Chuai-Aree, M. Srisombat, M. Sirinupong, S. Suanphairoch, S. Siripant, W. Jäger, and H. G. Bock <i>ALGM: An Algorithm for Leaf Growth Measurement Using Region Growing Method</i></p> <p>P. Wilaipon and S. Rengngiab <i>Site Selection of Cassava-Residue Briquetting Plant: A Case Study in Phitsanulok Province, Thailand</i></p> | <p>Session D4 – Room 304</p> <p>Chair: T. V. Hoai</p> <p>N. Q. Thuan, H. A. Le Thi, N. Huynh Tuong, and T. Pham Dinh <i>A New Approach to Solve Just-In-Time Scheduling Problem</i></p> <p>N. H. B. Quoc and D. T. Anh <i>Combining Constraint Programming and Tabu Search to Solve Vehicle Routing Problem with Time Windows</i></p> <p>N. T. T. M. Khang, D. T. T. Nguyen, T. T. Khon, and T. T. H. Nuong <i>A Tabu Search-Based Algorithm for Solving a Real-World University Timetabling Problem in Vietnam</i></p> |

Tuesday, March 3, 2009

| | | | | |
|-------------|---|---|--|--|
| | Session A5 – Room 301 | Session B5 (MS) – Room 201 | Session C5 – Room 303 | Session D5 – Room 304 |
| 14:00-14:30 | Chair: K.-H. Hoffmann P. Deuflhard <i>Conformation Dynamics in Computational Drug Design</i> | Chair: J. P. Schlöder P. A. DiMaggio, S. R. McAllister, and C. A. Floudas <i>Optimal Methods for Re-Ordering Data Matrices in Systems Biology and Drug Discovery Applications</i> | Chair: S. Siripant P. Guayjarenpanshik J. Asavanant <i>Free-Surface Flows over an Obstacle Problem Revisited</i> | Chair: T. K. Dang T. K. Dang, T. T. Q. Nguyet, and T. Q. Chi <i>Detecting, Monitoring and Preventing Database Security Breaches in Housing-Based Outsourcing Model</i> |
| 14:30-15:00 | A. Chertock and A. Kurganov <i>A Second-Order Positivity Preserving Central-Upwind Scheme for Chemotaxis and Haptotaxis Models</i> | S. Sager , C. Barth, H. Diedam, M. Engelhart, and J. Funke <i>Optimization and the Psychology of Human Decision Making</i> | I. Pantle and M. Gabi <i>Application of High Performance Computational Fluid Dynamics to Biomedical Flow Investigations</i> | P. T. Khoa , T. T. Tran, D. Nguyen, and N. Thoai <i>MaxNet and TCP Reno/RED on Mice Traffic</i> |
| 15:00-15:30 | A. ElBadia and T. Ha-Duong <i>An Inverse Conductivity Problem with a Single Measurement</i> | Q. T. Dinh and M. Diehl <i>A Real-Time Sequential Convex Programming Method and Applications in Optimal Control</i> | N. D. Toan and K. Y. Suk <i>Analytical and Numerical Approach to Prediction the Fracture and Optimize the Press Formability of Door Hinge</i> | M. Gipp, G. Marcus , N. Harder, A. Suratane, K. Rohr, R. König, and R. Männer <i>Haralicks Texture Features Computation Accelerated by GPUs for Biological Applications</i> |
| 15:30-15:50 | Coffee break | | | |
| | Session A6 – Room 301 | Session B6 (MS) – Room 201 | Session C6 – Room 303 | Session D6 – Room 304 |
| 15:50-16:20 | Chair: E. Zeidler K.-H. Hoffmann <i>Can Mathematics Help to Drive a Car Safer?</i> | Chair: S. Sager J. P. Schlöder <i>Estimation of Parameters in Optimal Control Problems</i> | Chair: M. Q. Phan P. D. Long and P. T. Cat <i>A Method of Computing Complex Nonlinear Diffusion Equations by Cellular Neural Network</i> | Chair: N. Thoai N. P. H. Cu , H. H. Pham, and T. V. Pham <i>A Resource Discovery Approach for VN-Grid</i> |
| 16:20-16:50 | K.-H. Hoffmann and N. D. Botkin <i>Modeling and Optimization in Cryopreservation Using Phase Field Models</i> | M. Gerdt <i>Optimal Control Algorithms for Automatic Driving</i> | V. D. Thai and P. T. Cat <i>A Parallel Neural Computing Method for Solving Two-Dimension Shallow Water Equations</i> | D.-K. Tran and T. V. Hoai <i>The Workflow Framework for Metaheuristic Search on Grid Environment</i> |
| 16:50-17:20 | N. D. Botkin and V. L. Turova <i>Simulation of Cell Shrinkage Caused by Osmotic Cellular Dehydration during Freezing</i> | C. Kirches , S. Sager, H. G. Bock, and J. P. Schlöder <i>Mixed-Integer Model-Predictive Control for Automotives</i> | T. M. Richter <i>Higher Order Galerkin Discretizations for the Non-Stationary Navier Stokes Equations</i> | D. T. Ba <i>A Parallel Algorithm for Automatic Reservoir History Matching on PC Networks</i> |

Wednesday, March 4, 2009

| | | | | |
|---------------------------------------|---|--|--|---|
| <p>09:00-09:45</p> <p>09:45-10:30</p> | <p>Plenary Session P3 – Room 301</p> <p>Chair: H. G. Bock</p> <p>Y.-X. Yuan <i>A Parallel Decomposition Training Algorithm for Multi-class Kernel-Based Vector Machines</i></p> <p>H. Simon <i>Future Directions in High Performance Computing (HPC) 2009 - 2018</i></p> | | | |
| <p>10:30-10:50</p> | <p>Coffee break</p> | | | |
| <p>10:50-11:20</p> <p>11:20-11:50</p> | <p>Session A7 – Room 301</p> <p>Chair: B. Russell</p> <p>P. K. Anh, C. V. Chung, and V. T. Dzung <i>A Parallel Iterative Regularization Method for Solving Systems of Operator Equations</i></p> | <p>Session B7 (MS) – Room 201</p> <p>Chair: T. Terlaky</p> <p>T. Binder and E. Kostina <i>Robust Parameter Estimation based on Huber Estimator in Systems of Differential Equations</i></p> <p>H. G. Bock, E. Kostina, S. M. Lenz, and J. P. Schlöder <i>Initial Satellite Orbit Determination with a Direct Multiple Shooting Method</i></p> | <p>Session C7 (MS) – Room 303</p> <p>Chair: Z. Chen</p> <p>H. Ammari, H. Kang, H. Lee, M. Lim, and H. Zribi <i>Blow-Up of Electric Field in Presence of Closely Located Inclusions</i></p> <p>A. Zhou <i>Adaptive Finite Volume Approximations of Eigenvalue Problems with Applications</i></p> | <p>Session D7 – Room 304</p> <p>Chair: D. T. Anh</p> <p>N. H. Hoang, N. Thoai, and T. V. Hoai <i>Relation-Aware Scheduler in Symmetric Multiprocessor Machine</i></p> <p>B. V. Anh <i>Apply Non-Deterministic Duration Automata in Modeling Priority Network</i></p> |

Wednesday, March 4, 2009, Afternoon

Excursion

Thursday, March 5, 2009

| | | | | |
|-------------|---|---|---|--|
| 09:00-09:45 | <p>Plenary Session P4 – Room 301</p> <p>Chair: W. Jäger</p> <p>P. Markowich</p> <p><i>On Nonlinear Dispersive Equations in Periodic Structures: Semiclassical Limits and Numerical Schemes</i></p> | | | |
| 09:45-10:30 | <p>V. Mehrmann and P. Kunkel</p> <p><i>Optimal Control of Descriptor Systems</i></p> | | | |
| 10:30-10:50 | Coffee break | | | |
| 10:50-11:20 | <p>Session A8 – Room 301</p> <p>Chair: S. Engell</p> <p>D. W. Heermann, M. Bohn, and P. M. Diesinger</p> <p><i>The Relation between the Gene Network, Gene Expression and the Physical Structure of Chromosomes Modelling and Simulation</i></p> | <p>Session B8 (MS) – Room 201</p> <p>Chair: E. A. Kostina</p> <p>T. Terlaky and J. Zhu</p> <p><i>On Dual Methods for Nonconvex Spectrum Optimization of Multicarrier Systems</i></p> | <p>Session C8 – Room 303</p> <p>Chair: J. Qiu</p> <p>Z. Chen, T. Cui, L. Zhang</p> <p><i>Integral Representation and the Adaptive Perfectly Matched Layer Method for Time-Harmonic Electromagnetic Scattering Problems</i></p> | <p>Session D8 – Room 304</p> <p>Chair: J.-N. Juang</p> <p>P. Degond, A. Kurganov, and A. Polizzi</p> <p><i>Numerical Methods for Modern Traffic Flow Models</i></p> |
| 11:20-11:50 | <p>P. Senthil Kumar, R. Arumuganathan, K. Sivakumar, and C. Vimal</p> <p><i>Removal of Ocular Artifacts in EEG Signals using Wavelet De-Noising</i></p> | <p>S. Borchers, P. Rumschinski, S. Bosio, R. Weismantel, and R. Findeisen</p> <p><i>Model Invalidation and Parameter Estimation of Biochemical Reaction Networks via Semidefinite Programming</i></p> | <p>A talk of N. C. Dinh was scheduled at this place, but it was neither cancelled nor presented.</p> | <p>N.-H. Do, Q.-L. N. Le, and K.-C. Nam</p> <p><i>Coordination between Traffic Light System and Traffic Circle Flexible Traffic Simulation Program</i></p> |
| 11:50-12:20 | <p>M. S. Mon, H. Mori, and E. Miyoshi</p> <p><i>Development of New Relativistic Model Core Potentials (spdsMCPs) for First-row Transition Metal Atoms and Their Applications</i></p> | <p>H. K. Yau and R. W. Longman</p> <p><i>Optimizing Automotive Valve Trains to Minimize Valve Bounce and Onset of Valve Float</i></p> | <p>N. T. Hung</p> <p><i>On the Finite Element Technique for the Shallow-Water Equations</i></p> | <p>V. H. Thanh and T. V. Hoai</p> <p><i>A Framework for Rule-Based Traffic Simulation Using Cellular Automata</i></p> |

Thursday, March 5, 2009

| | | | | |
|-------------|---|--|---|--|
| | Session A9 – Room 301 | Session B9 (MS) – Room 201 | Session C9 (MS) – Room 303 | Session D9 – Room 304 |
| 14:00-14:30 | Chair: D. W. Heermann T. Tometzki and S. Engell <i>Hybrid Algorithm for Risk Conscious Chemical Batch Scheduling under Uncertainty</i> | Chair: Y. F. Wang Y. H. Dai <i>On the Cyclic Steepest Descent Method</i> | Chair: H. Kang X. Feng and H. Wu <i>Discontinuous Galerkin Methods for the Helmholtz Equation with Large Wave Number</i> | Chair: S. Fujino S. M. Rump <i>Accurate Summation and Dot Products</i> |
| 14:30-15:00 | R. Schultz <i>Alternatives of Risk Modeling in Two-Stage Stochastic Programming</i> | J. Fan <i>A Modified Trust Region Algorithm for Nonlinear Equations with New Updating Rule of Trust Region Radius</i> | J. Qiu <i>A Numerical Study for the Performance of DG Methods Based on Different Numerical Fluxes</i> | T. Ogita , S. M. Rump, and S. Oishi <i>Fast Quasi-Quadruple Precision Computation of Sparse Matrix-Vector Product</i> |
| 15:00-15:30 | | Z. Wang <i>An Interior Point Subspace Trust Region Method for Nonlinear Optimization Subject to Bounds</i> | Z. Chen and W. Zheng <i>UPML Method for Time-Harmonic Scattering Problems in Layered Media</i> | K. Ozaki , T. Ogita, and S. Oishi <i>Parallel and Accurate Matrix Multiplication based on Optimized BLAS</i> |
| 15:30-15:50 | Coffee break | | | |
| | Session A10 – Room 301 | Session B10 (MS) – Room 201 | Session C10 (MS) – Room 303 | Session D10 – Room 304 |
| 15:50-16:20 | Chair: V. H. Linh T. Dunne and R. Rannacher <i>An Adaptive Finite Element Method for Flow Problems with Fluid-Structure Interaction</i> | Chair: Y. H. Dai Y. F. Wang , Z. H. Li, and C. C. Yang <i>Iterative Regularization and Optimization Algorithms for Seismic Migration and Inversion Imaging</i> | Chair: T. Koch D. Li , X. Sun, and C. Liu <i>Geometric Properties and Optimality Conditions of Quadratic Binary Programming</i> | Chair: S. M. Rump M. Thuthu, K. Kusaba, K. Abe, and S. Fujino <i>Variants of BiCGCR Iterative Method with Efficient Performance for Complex Symmetric Matrices</i> |
| 16:20-16:50 | A. D. Rychkov, Y. I. Shokin, and H. Milosevic <i>Modeling of Work of Filling Granular Filter with Active Cooling</i> | X. Liu and Y.-X. Yuan <i>Sequential Quadratic Programming without a Penalty Function or a Filter for Nonlinear Equality Constrained Optimization</i> | X. L. Sun , X. J. Zheng, and D. Li <i>Semidefinite Programming Relaxation for Constrained 0-1 Quadratic Programs</i> | M. Thuthu , S. Fujino, and Y. Onoue <i>A Proposal of Intelligent Variant of GPBiCG_AR Method by Reasonable Determination of Coefficients</i> |
| 16:50-17:20 | A.-V. Vuong and B. Simeon <i>Exact Geometry Simulation for Optimized Design of Vehicles and Vessels</i> | D. den Hertog and K. Roos <i>Computing Safe Dike Heights at Minimal Costs</i> | M. Armbruster, M. Fügenschuh, C. Helmberg , and A. Martin <i>A Comparative Study of Linear and Semidefinite Branch-and-Cut Methods for Solving the Minimum Graph Bisection Problem</i> | M. Griebel, B. Metsch , and M. A. Schweitzer <i>Algebraic Multigrid (AMG) - Beyond the M-Matrix Case</i> |

Friday, March 6, 2009

| | | | | |
|--|---|--|---|--|
| <p>09:00-09:45</p> <p>09:45-10:30</p> | <p>Plenary Session P5 – Room 301</p> <p>Chair: R. Rannacher</p> <p>I. Duff <i>The Solution of Really Large Sparse Linear Equations from Three-dimensional Modelling</i></p> <p>O. Deutschmann <i>New Routes for Production of Fuels and Chemicals: From Molecular Modeling to Reactor Optimization</i></p> | | | |
| <p>10:30-10:50</p> | <p>Coffee break</p> | | | |
| <p>10:50-11:20</p> <p>11:20-11:50</p> <p>11:50-12:20</p> | <p>Session A11 (MS) – Room 301</p> <p>Chair: A. Marciniak-Czochra</p> <p>W. Jäger <i>Mathematical Modelling and Simulation of Processes in Biological Tissues and Membranes</i></p> <p>J. K. Mizerski, E. Szpakowski, J. Szumbariski, and A. Trykozko <i>Microperfusion Effects in Aortic Wall with Diffusion-driven Mechanisms</i></p> <p>A. Chavarría-Krauser <i>Modelling Metal Transport in Plants</i></p> | <p>Session B11 (MS) – Room 201</p> <p>Chair: U. Ascher</p> <p>E. A. Kostina <i>Covariance Matrix Computation for Parameter Estimation in Nonlinear Models Solved by Iterative Linear Algebra Methods</i></p> <p>M. P. Friedlander, E. van den Berg <i>Computing Group-Sparse Approximations</i></p> <p>U. Ascher <i>On Inverse Problems, Regularization, Level Sets and Conjugate Gradients</i></p> | <p>Session C11 – Room 303</p> <p>Chair: V. N. Phat</p> <p>A. Y. Chebotarev <i>Variational Inequalities for the MHD Systems and Application to Controllability Problems</i></p> <p>L. Lin and N. X. Tan <i>On Systems of Quasivariational Inclusion Problems of Type I and Related Problems</i></p> <p>P. N. Anh <i>An Interior Proximal Method for Solving Pseudomonotone Nonlipschitzian Multivalued Variational Inequalities</i></p> | <p>Session D11 – Room 304</p> <p>Chair: P. T. An</p> <p>F. Delbos, M. Gainville, and D. Sinoquet <i>SQP Method for Petroleum Surface Network Optimization</i></p> <p>A. Gaikwad, V. D. Doan, M. Bossy, F. Abergel, and F. Baude <i>SuperQuant Financial-Benchmark Suite for Performance Analysis of Grid Middlewares</i></p> <p>W. Höhn, T. Jacobs, and N. Megow <i>Algorithmic and Complexity Results for Flowshop Scheduling in Steel Manufacturing</i></p> |

Friday, March 6, 2009

| | | | | |
|-------------|---|---|--|---|
| 14:00-14:45 | <p>Plenary Session P6 – Room 301 Chair: A. Martin R. E. Bixby <i>Mixed-Integer Programming - It works</i></p> | | | |
| 14:45-15:05 | Coffee break | | | |
| | <p>Session A12 (MS) – Room 301 Chair: J. K. Mizerski A. Marciniak-Czochra <i>Mathematical Models of Stem Cells Renewal and Differentiation</i></p> <p>L. T. T. An <i>Mathematical Modeling and Simulation of Drug Resistance in Infectious Diseases</i></p> <p>M. Ptashnyk, T. Roose, and G. Kirk <i>Model of Diffusion and Reaction of Strongly-Sorbed Solutes in Soil and Their Uptake by Plant Roots</i></p> | <p>Session B12 (MS) – Room 201 Chair: G. Feichtinger S. Pickenhain <i>On Strong Uniform Optimal Solutions of Infinite Horizon Optimal Control Problems</i></p> <p>V. Lykina and S. Pickenhain <i>Economic Applications of Infinite Horizon Optimal Control Problems. Sufficient Optimality Conditions</i></p> <p>N. Tauchnitz <i>Optimal Control of a Hybrid Investment Model</i></p> <p>G. Feichtinger <i>Age Dynamics of Learned Societies and Other Fixed-Sized Populations</i></p> | <p>Session C12 (MS) – Room 303 Chair: C. Helmberg B. Geißler, A. Martin, and A. Morsi <i>Solving Dynamic Network Problems by MIP Techniques</i></p> <p>T. Koch and S. Vigerske <i>Extending SCIP to Solve Quadratic MINLPs</i></p> <p>P. Belotti, J. Lee, L. Liberti, F. Margot, and A. Waechter <i>Branching Techniques and Valid Linear Inequalities for Mixed-Integer Nonconvex Programming</i></p> <p>R. Borndörfer and C. Cardonha <i>A Non-linear Approach to the Vehicle Positioning Problem</i></p> | <p>Session D12 (MS) – Room 304 Chair: R. Longman J.-N. Juang <i>Generalized Bilinear System Identification with Coupling Force Variables</i></p> <p>S. A. Ketcham, M. Q. Phan, and H. H. Cudney <i>Reduced-Order Wave-Propagation Modeling Using the Eigensystem Realization Algorithm</i></p> <p>M. Q. Phan, R. S. Darling, S. A. Ketcham, and H. H. Cudney <i>Superstable State-Space Representation for Large-Domain Wave Propagation</i></p> <p>B. Panomruttanarug, R. W. Longman, and K. D. Mombaur <i>Issues in Applying Iterative Learning Control in Nonlinear Systems</i></p> |
| 15:05-15:35 | | | | |
| 15:35-16:05 | | | | |
| 16:05-16:35 | | | | |
| 16:35-17:05 | | | | |