



Workshop on Advances in Continuous Optimization

Reykjavik, Friday - Saturday, June 30-July 1, 2006

University of Iceland (Building Askja)

Program

Thursday, June 29, 2006

19:30 **Welcome and getting together**

meeting point: lobby of Hotel Saga (nearby the university)

Friday, June 30, 2006

08:00 – 08:30 Registration (nearby lecture rooms)

08:30 – 08:40 Welcoming Remarks, Oliver Stein

08:40 – 09:25 Chair : Bülent Karasözen

Invited Talk : Adil Bagirov (room 132)

[Derivative-free Algorithms in Nonsmooth Optimization and their Applications](#)

09:25 – 09:45 **Coffee Break**

09:45 – 10:30 Chair: Florian Jarre

Invited Talk: (room 132)

Gianni Di Pillo, Giampolo Liuzzi, Stefano Lucidi

[A Primal-Dual Algorithm Exploiting Negative Curvature Directions](#)

10:30 – 12:00 **Parallel Sessions A and B:**

Session A. Chair: Tibor Illés (room 130)

10:30 – 11:00 Paula Amaral, Joaquim Júdice, Hanif Serali

[Solving Inconsistencys Preserving the Zero-Structure](#)

11:00 – 11:30 Musa Mammadov

[Global Descent Methods in Global Optimization and its Applications](#)

Session B. Chair: Kees Roos (room 131)

10:30 – 11:00 Miguel F. Anjos

[A Semidefinite Optimization Approach for Single Row Layout Problems](#)

11:00 – 11:30 Antoine Deza, Tamas Terlaky, Yuriy Zinchenko

[How Curvy is the Central Path?](#)

11:30 – 12:00 Amir Beck

[Quadratic Matrix Programming](#)

12:00 – 14:00 **Lunch**

14:00 – 14:45 Chair: Miguel A. Goberna

Invited Talk: Petra Huhn (room 132)

[Average Complexity of Interior Point Methods](#)

14:45 - 15:45 **Parallel Sessions A and B:**

Session A. Chair: Georg Still (room 130)

14:45 – 15:15 Salah Beddiaf, S.J. Kane, M.C. Bartholomew-Biggs

[Traversing Non-Convex Regions](#)

15:15 – 15:45 C. Yalçın Kaya, José Mario Martinez

[Inexact Restoration in Infinite Dimensions and Optimal Control](#)

Session B. Chair: Leonidas Sakalauskas (room 131)

14:45 – 15:15 [Joaquim Júdice](#), Isabel Ribeiro, Silvério Rosa

[Solution of Complementarity Problems by Enumerative Algorithms](#)

15:15 – 15:45 [Adriana Gnudi](#), Elisabetta Allevi, I.V. Konno

[Regularization of Non-Monotone Multivalued Variational Inequalities](#)

15:45 – 16:00 *Short Break*

16:00 - 17:00 **Parallel Sessions A and B:**

Session A. Chair: Marco Lopez (room 130)

16 :00 – 16:30 [Miguel A. Goberna](#), M. Larriqueta, V.N. Vera de Serio

[Stability of the Relative Position of Two Sets](#)

16:30 – 17:00 [César Gutiérrez](#)

[Multiplier Rules for \$\varepsilon\$ -Efficient Solutions in Pareto Problem](#)

Session B. Chair: C. Yalçın Kaya (room 131)

16 :00 – 16:30 [Sven-Aake Gustafson](#)

[Calculating Optimal Environmental Pollution Control Strategies by Means of Continuous Programming](#)

16:30 – 17:00 [Audrey Hermant](#), J. Frédéric Bonnans

[No Gap Second order Optimality Conditions for Optimal Control Problems with a single State Constraint and Control](#)

17:00 – 17:40 *Coffee Break*

17:40 – 18:40 **Parallel Sessions A and B:**

Session A. Chair: Tamas Terlaky (room 130)

17:40 – 18:10 Florian Jarre, Franz Rendl

[An Augmented Primal-Dual Method for Linear Conic Minimization](#)

18:10 – 18:40 Kees Roos

[A Full-Newton Step \$O\(n\)\$ Infeasible Interior-Point Algorithm for Linear Optimization](#)

Session B. Chair: Pall Jensson (room 131)

17:40 – 18:10 Regina Sandra Burachik, Alex Rubinov

[Abstract Convexity and Augmented Lagrangians](#)

18:10 – 18:40 Alexander Y. Kruger

[About Stationarity and Regularity in Continuous Optimization](#)

20:00 *Conference Dinner*

Saturday, July 1, 2006

8:30 – 09:15 Chair: Janos Pinter

Invited Talk: Klaus Schittkowski (room 132)

[SQP Methods with Non-Monotone and Parallel Line Search: Numerical Experiments and an Industrial Application](#)

9:15 – 09:45 *Coffee Break*

9:45 – 11:45 **Parallel Sessions A and B:**

Session A. Chair: Kathrin Klamroth (room 130)

9:45 – 10:15 Vaida Bartkute

[Application of Stochastic Approximation to Nondifferentiable Optimization](#)

10:15 – 10:45 C.E.M. Pearce, P.G. Howlett, J. Piantadosi

[An Optimal Control Policy for Stormwater Management in Two Connected Dams](#)

10:45 – 11:15 [V.E. Podobedov](#)

[Deterministic Chaos Produced by Local Optimization Algorithms](#)

11:15 – 11:45 [Ömer Akin](#), Necati Özdemir, Firat Evirgen

[A New Application of An Uncapacitated Network Flow Problem Using State-Space Approach with Quadratic Penalty Method](#)

Session B. Chair: Tatiana Tchemisova (room 131)

9:45 – 10:15 [Mike Nicolai](#), Marek Behr, Feby Abraham

[Shape optimization in biofluid flow problems](#)

10:15 – 10:45 [Janos Pinter](#)

[Global Optimization with Maple An Introduction with Illustrative Examples](#)

10:45 – 11:15 [Pavel Pražák](#)

[On an Advertising Model with Memory](#)

11:15 – 11:45 [Leonidas Sakalauskas](#), Kestutis Zilinskas

[Stochastic Linear Programming by Monte-Carlo Estimators](#)

11:45 – 13:40 **Lunch**

13:40 – 14:25 Chair: Amir Beck

Invited Talk: [Marc Teboulle](#) (room 132)

[A Unified Continuous Optimization Approach to Center Based Clustering Algorithms](#)

14:25 – 14:55 **Coffee Break**

14:55 – 15:40 Chair: Miguel F. Anjos

Invited Talk: [Henry Wolkowicz](#), Oleg Grodzevic (room 132)

[Regularization and Trust Regions in Optimization](#)

15:40 – 16:05 **Short Break**

16:05 – 18:05 **Parallel Sessions A and B:**

Session A. Chair: Joaquim Júdice (room 130)

16:05 – 16:35 Emilio Spedicato

[ABS Methods as a Bridge from Continuous to Integer Problems](#)

16:35 – 17:05 Tamas Terlaky, Maziar Salahi

[On Mehrotra-Type Predictor-Corrector Algorithms](#)

17:05 – 17:35 Theodore T. Trafalis, Robin C. Gilbert

[Linear Programming Kernel Methods and Applications](#)

17:35 – 18:05 Tibor Illés, Á. B. Nagy

[Sufficient Optimality Criterion for Linearly Constrained, Separable Concave Minimization Problems](#)

Session B. Chair: Maxim I. Todorov (room 131)

16:05 – 16:35 Tatiana Tchemisova, O.I. Kostyukova, E.A. Kostina

[Convex Parametric Semi-Infinite Programming Problems and Properties of Their Solutions in a Neighborhood of Irregular Points](#)

16:35 – 17:05 Maxim I. Todorov

[Linear Semi-Infinite Optimization. Unicity and Generic Results](#)

17:05 – 17:35 Gerhard-Wilhelm Weber, Aysun Tezel

[On Generalized Semi-Infinite Optimization of Genetic Networks](#)

17:35 – 18:05 Metin Turkay, Ahu Soylu

[Synergy Analysis of Collaboration in Environmentally Conscious Energy Systems](#)

18:05 *Closing Remarks*, Gerhard-Wilhelm Weber

Farewell.