ANNUAL REPORT  2005

Institut für Statistik und Decision Support Systems
Universität Wien

Department of Statistics and Decisions Support Systems
University of Vienna

Universitätsstraße 5/9, A-1010 Wien
Brünnerstraße 72, A-1210 Wien

http://www.isds.univie.ac.at/

Wien, März 2006


Teaching and research activities

The main teaching duty of the Department of Statistics and Decision Support Systems comprises the education of students at the Faculty of Economics, Business Administration and Statistics as well as at the Faculty of Computer Science in the fields of Mathematics, Statistics, Operations Research, Econometrics, and several areas of Computer Science.


Research is conducted in the areas of Mathematical Statistics; Applied Statistics, Computational Statistics; Stochastic Methods of Financial Mathematics; Game Theory; Econometrics; Time Series Analysis; Global, Nonlinear, Combinatorial and Stochastic Optimization; Scheduling and Project Management; Modeling and Simulation of Complex Systems; Software Engineering; Information Systems and Statistical Methods in Theoretical Computer Science.

Faculty

Senior Faculty
Bomze, Immanuel Operations Research, Stochastic Modelling
Futschik, Andreas Asymptotic Statistics, Applied Statistics, Bioinformatics
Gutjahr, Walter J. Algorithms and Data Structures, Combinatorial Optimization, Reliability, Software Engineering
Pflug, Georg Ch. Mathematical Statistics, Stochastic Optimization and Risk Management
Pötscher, Benedikt Econometrics, Statistics and Time Series Analysis
Reschenhofer, Erhard Applied Statistics, Econometrics, Biometrics
Schachinger, Werner Stochastic Finance, Analysis of Data Structures

Junior Faculty
Baierl, Andreas Statistical Methods in Quantitative Genetics
Frommlet, Florian Applied Mathematics and Statistics
Klein, Irene Stochastic Finance
Mirkov, Radoslava Stochastic Optimization
Nickl, Richard Probability and statistics in infinite dimensions
Rubey, Martin Combinatorics, Econometrics
Wozabal, Nancy Statistics and Optimization
Papers published in 2005

**Bomze, I.; Palagi, L.**
Quartic formulation of standard quadratic optimization problems

**Bomze, I.**
Portfolio selection via replicator dynamics and projections of indefinite estimated covariances

**Bomze, I.**
Optimization of functions with rank-two variation over a box

**Derndorfer, E.; Baierl, A.; Nimmervoll, E.; Sinkovits, E.**
A panel performance procedure implemented in R

**Derndorfer, E.; Bareis, P.; Ebhart, P.; Baierl, A.**
Is there an exotic pear flavour?

**Doerner, K.; Gutjahr, W. J.; Hartl, R.; Karall, M.; Reimann, M.**
Heuristic solution of an extended double-coverage ambulance location problem for Austria

**Futschik, A.; Posch, M.**
On the Optimum Number of Hypotheses when the Number of Observations is Limited

**Futschik, A.; Huang, W.T.**
Confidence sets for the maximizers of intensity functions

**Gaivoronski, A.; Pflug, G.**
Value-at-risk in portfolio optimization: properties and computational approach

**Gutjahr, W. J.**
Two metaheuristics for multiobjective stochastic combinatorial optimization
Kroiss, R.; Winkler, V.; Bikas, D.; Fleischmann, E.; Mainau, C.; Frommlet, F.;
Wagner, T.M.
Austrian Hereditary Breast and Ovarian Cancer Group. Younger birth cohort
correlates with higher breast and ovarian cancer risk in European BRCA1 mutation
carriers
*Human mutation* **26** (6), 583-9 (2005)

Leeb, H.; Pötscher, B.
Model Selection and Inference: Facts and Fiction

Linneroth-Bayer, J.; Mechler, R.; Pflug, G.
Refocusing Disaster Aid

Lozanov-Crvenkovic, Z.; Mirkov, R.
Some classes of positive definite Colombeau generalized functions

Pflug, G.; Ruszszynski, A.
Measuring Risk for Income Streams

Pflug, G.; Weisshaupt, H.
Probability gradient estimation by set-valued calculus and applications in network
design

Rauner, M.; Brailsford, S.; Gutjahr, W. J.; Zeppelzauer, W.
Optimal screening policies for diabetic retinopathy using a combined discrete-event
simulation and ant colony optimization approach
*Proceedings of the International Conference on Health Sciences Simulation,*

Rubey, M.
The h-vector of a ladder determinantal ring cogenerated by $2 \times 2$ minors is log-
concave

Scope, A.; Schwendenwein, I.; Frommlet, F.
Influence of outlying values and variations between sampling days on reference
ranges for clinical chemistry in budgerigars (Melopsittacus undulatus)
*The Veterinary record* **156** (10), 310-4 (2005)

Scope, A.; Frommlet, F.; Schwendenwein, I.
Circadian and seasonal variability and influence of sex and race on eight clinical
chemistry parameters in budgerigars (Melopsittacus undulatus, Shaw 1805)
Papers finished in 2005

Baierl, A.; Bogdan, M.; Frommlet, F.; Futschik, A.
On Locating Multiple Interacting Quantitative Trait Loci in Intercross Designs
To appear in: Genetics

Bomze, I.; Frommlet, F.; Rubey, M.
Improving SDP bounds for minimizing quadratic functions over the $\ell^1$-ball
TR 2005-09

Bomze, I.; Locatelli, M.; Tardella, F.
New and old bounds for standard quadratic optimization: dominance, equivalence and incomparability
TR 2005-10

Clarke, B.R.; Futschik, A.
On the Convergence of the Newton Method when Estimating Higher Dimensional Parameters

Futschik, A.; Isogai, E.
On the Consistency of Kernel Density Estimates under Modality Constraints
To appear in: Statistics and Probability Letters

Guo, V.J.W.; Rubey, M.; Zeng, J
Combinatorial Interpretations of the q-Faulhaber and q-Salie Coefficients
to appear in Journal of Combinatorial Theory

Gutjahr, W. J.
On the finite-time dynamics of ant colony optimization
To appear in: Methodology and Computing in Applied Probability
TR 2005-05

Gutjahr, W. J.; Maniezzo, V.; Schedl, M.; Strauss, Ch.
Solving a periodic routing problem with stochastic demands
TR 2005-07

Hochreiter, R.; Paulsen, V.; Pflug, G.
Optimal management of unit linked life insurance
To appear in: Handbook of asset and liability management (B. Ziemba and S. Zenios eds.)

Hochreiter, R.; Pflug, G.
Scenario generation for stochastic multi-stage decision processes as facility location problems

Kaniovski, Yu.; Pflug, G.
Risk Assessment for Credit portfolios: A coupled Markov Chain Approach
Klein, I.
Market free lunch and large financial markets

Klein, I.
No asymptotic free lunch reviewed in the light of Orlicz spaces

Leeb, H.; Pötscher, B.
Can One Estimate the Unconditional Distribution of Post-Model-Selection Estimators?
TR 2005-02

Meisel, D.V.; Byrne, R.A.; Kuba, M.; Mather, J.; Ploberger, W.; Reschenhofer, E.
Contrasting activity patterns of two related Octopus species

Nickl, R.
Donsker Type Theorems for Nonparametric Maximum Likelihood Estimators (2005)
TR 2005-03

Pflug, G.
Dual representations of risk measures
To appear in: Mathematical programming

Pflug, G.; Hochreiter, R.
Polynomial and parallel algorithms for pricing path dependent interest rate instruments (Revision)
Computational Economics

Pflug, G.
On distortion risk functionals
To appear in: Statistics and Decisions

Pflug, G.; Wozabal, D.
Ambiguity in Portfolio Selection

Ploberger, W.; Reschenhofer, E.
Testing for cycles in time series

Rauner, M.; Brailsford, S.; Gutjahr, W. J.; Zeppelin, W.
Combined discrete-event simulation and ant colony optimisation approach for selecting optimal screening policies for diabetic retinopathy
To appear in: Computational Management Science

Reschenhofer, E.
Selecting selection methods

Rubey, M.
A combinatorial interpretation of Guo and Zeng's q-Faulhaber coefficients
**Research stays at other institutions 2005**

<table>
<thead>
<tr>
<th>Person</th>
<th>Institution</th>
<th>Research topic</th>
<th>Duration in weeks</th>
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<tbody>
<tr>
<td>Baierl, Andreas</td>
<td>Wroclaw Technical University, POL</td>
<td>Robust methods for locating quantitative trait loci</td>
<td>1</td>
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<tr>
<td>Frommlet, Florian</td>
<td>TU Wroclaw, POL</td>
<td>Modified BIC for QTL detection</td>
<td>2</td>
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<tr>
<td>Frommlet, Florian</td>
<td>Uni Klagenfurt, AUT</td>
<td>Doctoral School: Optimization over Polynomials and Semidefinite Programming</td>
<td>1</td>
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<tr>
<td>Futschik, Andreas</td>
<td>Murdoch University, Perth, AUS</td>
<td>Newton’s Method in M-Estimation and nonparametric Curve Estimation</td>
<td>7</td>
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<tr>
<td>Pötscher, Benedikt</td>
<td>Department of Economics, Universidad Carlos III, Madrid, ESP</td>
<td>Model Selection</td>
<td>3</td>
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</tbody>
</table>

**Presentations at conferences 2005**

<table>
<thead>
<tr>
<th>Person</th>
<th>Conference</th>
<th>Title of presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baierl, Andreas</td>
<td>IASC, Limassol, CYP</td>
<td>On Locating multiple interacting quantitative trait loci</td>
</tr>
<tr>
<td>Bomze, Immanuel</td>
<td>International Conference on Global Optimization, Almeria, ESP</td>
<td>New SDP-based bounds for the weighted clique number</td>
</tr>
<tr>
<td>Bomze, Immanuel</td>
<td>AIRO Conference 2005, Camerino, ITA</td>
<td>Semidefinite Programming for cheap and efficient bounding of hard nonlinear optimization problems</td>
</tr>
<tr>
<td>Name</td>
<td>Event</td>
<td>Title</td>
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<tr>
<td>Bomze, Immanuel</td>
<td>22nd LL Seminar on Graph Theory 2005, Leipzig, GER</td>
<td>New SDP-based bounds for the clique number</td>
</tr>
<tr>
<td>Frommllet, Florian</td>
<td>3rd World Conference on Computational Statistics, Limassol, CYP</td>
<td>On the Dependence of Sequence Alignment Scores calculated with Different Scoring Matrices</td>
</tr>
<tr>
<td>Futschik, Andreas</td>
<td>55th Session of the International Statistical Institute (ISI), Sidney 2005, AUS</td>
<td>Consistent Density Estimation under Modality Constraints</td>
</tr>
<tr>
<td>Futschik, Andreas</td>
<td>55th Session of the International Statistical Institute (ISI), Sidney 2005, AUS</td>
<td>More hypotheses versus more power: Designing a Multiple Hypothesis Testing Experiment Subject to a Maximum Overall Number of Possible Observations</td>
</tr>
<tr>
<td>Gutjahr, Walter J.</td>
<td>MIC 2005, Vienna, AUT</td>
<td>Theory of ant colony optimization: Status and perspectives <em>(invited keynote talk)</em></td>
</tr>
<tr>
<td>Gutjahr, Walter J.</td>
<td>SAGA 2005, Moscow, RUS</td>
<td>Two metaheuristics for multiobjective stochastic combinatorial optimization</td>
</tr>
<tr>
<td>Mirkov, Radoslava</td>
<td>8th SIAM Conference on Optimization, Stockholm, SWE</td>
<td>On convergence of discretizations of stochastic processes for multi-stage stochastic optimization problems</td>
</tr>
<tr>
<td>Nickl, Richard</td>
<td>4th International Conference on High Dimensional Probability, Santa Fe, USA</td>
<td>Donsker Type Theorems for Nonparametric Maximum Likelihood Estimators</td>
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<tr>
<td>Pflug, Georg</td>
<td>Finance and Decisions '05, Bozen, ITA</td>
<td>Risk assessment for credit portfolios: a coupled Markov chain model <em>(invited)</em></td>
</tr>
<tr>
<td>Pflug, Georg</td>
<td>Risk measures and risk management, EURANDOM, Eindhoven, NED</td>
<td>Acceptability functionals, risk capital functionals and risk deviation functionals: Primal and dual properties for one-and multiperiod models <em>(invited)</em></td>
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<tr>
<td>Pflug, Georg</td>
<td>Risk Management, London, GBR</td>
<td>Risk functionals: the primal and the dual view <em>(invited)</em></td>
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<tr>
<td>Pflug, Georg</td>
<td>IFIP, Turin, ITA</td>
<td>Optimization of nonstandard risk functionals <em>(invited)</em></td>
</tr>
<tr>
<td>Pflug, Georg</td>
<td>Decision making in Finance, Coimbra, POR</td>
<td>Risk contributions</td>
</tr>
<tr>
<td>Person</td>
<td>Institution</td>
<td>Title</td>
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<tr>
<td>Baierl, Andreas</td>
<td>Rothamsted Research, Harpenden, GBR</td>
<td>Methods for locating quantitative trait loci (QTL)</td>
</tr>
<tr>
<td>Frommlet, Florian</td>
<td>Eurochimerism Meeting March 2005, Vienna, AUT</td>
<td>Statistical Analysis of Sensitivity/Quantifiability testing with EU-Chimerism Markers</td>
</tr>
<tr>
<td>Gutjahr, Walter J.</td>
<td>IDSIA, University of Lugano, SUI</td>
<td>A differential equation approach towards judging the convergence speed of ant algorithms</td>
</tr>
<tr>
<td>Gutjahr, Walter J.</td>
<td>ETH Zürich, SUI</td>
<td>Ant colony optimization for stochastic problems: From convergence results towards finite-time analysis</td>
</tr>
<tr>
<td>Mirkov, Radoslava</td>
<td>Riskplan/ISDS</td>
<td>Tree Approximation and Scenario Generation</td>
</tr>
<tr>
<td>Pflug, Georg</td>
<td>Université de Grenoble, FRA</td>
<td>Risk functionals</td>
</tr>
<tr>
<td>Pötscher, Benedikt</td>
<td>Department of Economics, Universidad Carlos III, Madrid, ESP</td>
<td>Model Selection and Inference</td>
</tr>
<tr>
<td>Wozabal, Nancy</td>
<td>Höhere Wahr. Theorie Seminar, Faculty of Mathematics, Universität Wien, AUT</td>
<td>Consistency Properties of risk functionals</td>
</tr>
</tbody>
</table>
Referee work for journals and organisations

Bomze, Immanuel
- Central European Journal of Operations Research (2)
- European Journal of Operational Research (2)
- Games and Economic Behaviour (2)
- Information Sciences (2)
- Journal of Computational and Applied Mathematics (1)
- Journal of Global Optimization (2)
- Journal of Mathematical Biology (1)
- Mathematical Methods of Operations Research (1)
- Mathematical Programming (1)
- Pattern Recognition (1)
- SIAM Journal on Optimization (1)
- Statistics & Probability Letters (1)

Frommlet, Florian
- Computational Statistics and Data Analysis (1)
- SIAM Journal on Optimization (1)

Futschik, Andreas
- Mathematical Methods in Statistics (1)
- Statistics and Probability Letters (1)
- Mathematical Reviews (1)
- Netherlands Organization for Scientific Research (NWO) (1)
- Annals of OR (1)
- Proteins: Structure, Function, and Bioinformatics (1)

Gutjahr, Walter J.
- European Journal of Operational Research (2)
- Methodology and Computing in Applied Probability (1)
- Central European Journal of Operations Research (1)
- Annals of Operations Research (1)
- International Journal of Production Economics (1)
- Journal of Global Optimization (2)
- IEE Transactions (1)
- Optimization (1)
- IEEE Transactions on Evolutionary Computing (2)
- OR Spectrum (1)
- Transactions on Software Engineering and Methodology (1)
- Program Committee EvoCOP 2006
- Program Committee SIS 2005
- Program Committee MIC 2005
- Program Committee GECCO 2005
- Program Committe SAGA 2005

Klein, Irene
- Journal of Global Optimization (1)

Mirkov, Radoslava, Statistics & Probability Letters (1); with Pflug, Georg

Nickl, Richard
- Journal of Multivariate Analysis (1)

Pötscher, Benedikt
- Annals of Statistics
- Econometric Theory
- Statistics

Schachinger, Werner
- Journal of Global Optimization (1)
**Editorial work**

Bomze, Immanuel  
Central European Journal of Operations Research  
Journal of Global Optimization  
Optimization Letters

Gutjahr, Walter J.  
Special Issue of “Computers and Operations Research” on  
“Search-Based Software Engineering” with Harman, Mark  
Proceedings MIC 2005 (in preparation) with Dörner, Karl;  
Gendreau; Michel; Greistorfer, Peter; Hartl, Richard

Mirkov, Radoslava  
Special Issues - Annals of OR,  
Quantitative Finance,  
Journal of Banking and Finance (all with Pflug, Georg)

Pflug, Georg  
is associate editor of the following journals  
Statistics and Probability Letters  
Mathematical Methods of OR  
Computational Optimization and Applications  
Computational Management Science  
Central European Journal of OR

Pötscher, Benedikt  
Co-editor of Econometric Theory  
Associate Editor of Journal of Econometrics  
Co-editor of Econometric Reviews  
Guest-Editor of Special Issue of Econometric Theory  
Referee U.S. National Science Foundation (NSF)

**Membership as scientific professional in scientific organisations**

Bomze, Immanuel  
Italienische Gesellschaft für OR (AIRO)  
Öst. Statistische Gesellschaft (OSG)  
Öst. Mathem.Gesellschaft (ÖMG)  
Öst. Gesellschaft f. OR (ÖGOR)

Baierl, Andreas  
OSG

Futschik, Andreas  
OSG

IMS

Gutjahr, Walter J.  
Öst. Gesellschaft f. OR (ÖGOR)

Mirkov, Radoslava  
SIAM (Optimization)

Pflug, Georg  
OSG  
Öst. Mathem.Gesellschaft (ÖMG)  
Öst. Gesellschaft f. OR (ÖGOR)

Pötscher, Benedikt  
AMS  
ASA  
IMS  
Econometric Society  
Verein für Socialpolitik (Ausschuss für Oekonometrie)  
OSG
Public relations activities

Bomze, Immanuel
Teilnahme an der BeSt 05/Beratung;
Vorbereitung des SchülerInnen Tages 31.01.2006
Interview "Operations Research" Wirtschaftsblatt, September 2005

Futschik, Andreas
Schülerwettbewerb und Preissrätsel 2005
Vorbereitung des SchülerInnen Tages 31.01.2006

Gutjahr, Walter J.
Scientific Interview on „Heuristics“, Austrian Broadcasting Corporation (ORF), 2nd Sept. 2005

Supervision of diploma theses and Ph.D.theses

DA .......Diplomarbeit
DISS 1 ...Dissertation – First referee
DISS 2 ...Dissertation – Second referee

<table>
<thead>
<tr>
<th>Supervisor</th>
<th>Author</th>
<th>DA/DISS 1/DISS 2</th>
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<tr>
<td>Bomze, Immanuel</td>
<td>Wassermann, Bertram</td>
<td>DISS 1</td>
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<td>Gutjahr, Walter J.</td>
<td>Parragh, Sophie</td>
<td>DA</td>
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<td>Gutjahr, Walter J.</td>
<td>Partel, Doris</td>
<td>DA</td>
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<tr>
<td>Gutjahr, Walter J.</td>
<td>Pitakaso, Rapeepan</td>
<td>graduated 2005</td>
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<tr>
<td>Pflug, Georg</td>
<td>Hochreiter, Ronald</td>
<td>graduated 2005</td>
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<tr>
<td>Pflug, Georg</td>
<td>Mirkov, Radoslava</td>
<td>DISS 1</td>
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<tr>
<td>Pflug, Georg</td>
<td>Schabauer, Hannes</td>
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<td>Pflug, Georg</td>
<td>Wiesinger, Clemens</td>
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<td>Pflug, Georg</td>
<td>Wozabal, David</td>
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</tr>
<tr>
<td>Pflug, Georg</td>
<td>Wozabal, Nancy</td>
<td>DISS 1</td>
</tr>
<tr>
<td>Pötscher, Benedikt</td>
<td>Nickl, Richard</td>
<td>graduated 2005</td>
</tr>
</tbody>
</table>

Other professional activities

Bomze, Immanuel Vorstandsmitglied OSG,
Vorstandsvorsitzender ÖGOR
Coorganization of the Colloquium in the honor of Leopold Schmetterer at the Academy of Sciences (April 4 – 5)
Member of Program Committee for: EUROPT Workshop "Advances in Continuous Optimization", Reykjavik 2006

Frommlet, Florian Statistical advisor for the Eurochimerism group
Futschik, Andreas Vizestudienprogrammleiter Fak. f. Wirtschaftswissenschaften
Gutjahr, Walter J.  
Member of the Program Steering Committee and the Local Organizing Committee of the 6th Metaheuristic Int. Conf., Vienna 2005
Project coordinator of the funded project “Competence-Driven Project Portfolio Analysis” (FWF, grant L264-N13, approval date 11th Oct. 2005)

Pflug, Georg  
Organization of the seminar “Algorithms for Optimization with Incomplete Information” Forschungszentrum für Informatik, Schloss Dagstuhl (16. – 21. January)
Coorganization of the Colloquium in the honor of Leopold Schmetterer at the Academy of Sciences (April 4 – 5)
Organization of the conference “Decision making in Finance” at the Free University Bozen (April 28 – 30)
Organization of the workshop “Operational Risk Management”, at the University of Vienna (November 16), Vorstandsmitglied ÖGOR

Pötscher Benedikt  
Member of Program Committee Econometrics and Empirical Economics, Econometric Society European Meeting 2006
Organizer of an Invited Session “Time Series Analysis” at PROBASTAT 2006
Offer of a Full Professor Position at the University of Frankfurt/Main (declined)

Talks given at the department in 2005

10. Jänner: M. Rubey, Wien
Kombinatorik? Statistik!

17. Jänner: I. Bomze, Wien
Efficient and cheap bounds for (standard) quadratic optimization

Zufällige Genealogien, selektive Sweeps und neutrale Mitläufer

31. Jänner: K. Klamroth, Erlangen
Optimization with Conflicting Objectives: Applications, Models and Solution Methods

Structural Alignment of RNA Sequences with Lagrangian Relaxation

14. März: P. Gritzmann, München
Diskrete Tomographie

18. März: J. King, Genoa Inc., UK
Markovian decision processes
04. April: K. Krickeberg, Paris
Neue mathematisch-statistische Anwendungen von Gesundheitsregistern

04. April: J. Pfanzagl, Köln
Was ist ein "optimaler" Schätzer ?

04. April: H. Heyer, Tübingen
Hypergruppen in Analysis und Wahrscheinlichkeitstheorie

05. April: H. Strasser, Wien
Statistik als Gegenstand mathematischer Forschung

05. April: J.-B. Hiriart-Urruty, Toulouse
Some open problems in nonlinear analysis and optimization

05. April: W. Schachermayer, Wien
Anwendung der Wahrscheinlichkeitstheorie auf Finanzmathematik

11. April: K. Knight, Toronto
Unit root tests with infinite variance noise

25. April: R. Mirkov, Wien
On convergence of discretizations of stochastic processes for multi-stage stochastic optimization problems

02. Mai: A. Baierl, Wien
On Locating Multiple Interacting Quantitative Trait Loci (QTL) in Intercross Designs

09. Mai: P. Filzmoser, Wien
The Projection Pursuit Approach for Robust Multivariate Analysis

06. Juni: J.-P. Vial, Genf
Decision under uncertainty with linear decision rules

Donsker Type Theorems for Maximum Likelihood Estimators

20. Juni: W. Achtziger, Dortmund
On Optimization Problems with Vanishing Constraints

20. Juni: F. Frommlet, Wien
Improving SDP bounds for minimizing quadratic functions over the 11-ball

27. Juni: H. Leeb, Yale
Model selection and inference in regression when the number of parameters is of the same order as sample size

30. Juni: M. Locatelli, Torino
Randomness, plateau search, penalties, restart rules: simple ingredients leading to very efficient heuristics for the Maximum Clique Problem
03. Oktober: L.Qi, HongKong
Generalized Newton Methods for Semi-Infinite Programs

10. Oktober: I. Dukanovic, Maribor
Strengthening Lovasz theta number by semidefinite programming

24. Oktober: D. Ramsey, Wroclaw
On interaction and information in games based on the job search problem

31. Oktober: P. Stadler, Leipzig
Phylogenetic Footprinting in Multiple Sequences

07. November: J.-M.Dufour, Montreal
Point-Optimal Instruments and Generalized Anderson-Rubin Procedures for Nonlinear Models

Estimation of densities of functions of several sample variables

Primal-dual stochastic approximation

28. November: F.Semet, Valenciennes
Real-time Emergency Fleet Management in Montreal

28. November: M.Unterleithner, Wien
Austrian Red Cross - Logistics in Health Care and Emergency Response

Multicriteria Location Planning for Public Facilities in Tsunami-Prone Coastal Areas

05. Dezember: T. Pennanen, Helsinki
A Galerkin method for multistage stochastic programs

19. Dezember: E. Carrizosa, Sevilla
Distance optimization and decision making