



Institut für Statistik und Operations Research  
Department of Statistics and Operations Research



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# ANNUAL REPORT 2018

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## 1 Foreword

I am pleased to present the Annual Report of the Department of Statistics and Operations Research, which documents some of the many achievements in 2018. The Department of Statistics and Operations Research is part of the School of Business, Economics and Statistics of the University of Vienna. Members of the department are active in research in various areas of Statistics, Econometrics, Operations Research, Applied Mathematics and Computer Science. The department offers degree programs in Statistics at the Bachelor, Master and the PhD-level. Members of the department are also active in service teaching for other departments in our School, including the Department of Business Administration and the Department of Economics.

In 2018, Manveer Mangat joined the department as a Prae Doc assistant, and Lisa Carli as an administrative assistant.

There were also several departures in 2018: Walter Gutjahr retired after many years in our department. We are very grateful to him for his many contributions and wish him well in his retirement. Christopher Walsh left for a Post Doc position at TU Dortmund, while Ivana Milovic, Alexander Ristig, and Nina Senitschnig went into industry. Johannes Happenhofer as well as Dominique Sundt decided to pursue other career options. We wish them all well in their new endeavours.

Special thanks are due to Lisa Carli and Birgit Ewald for editing the Annual Report 2018.

Benedikt M. Pötscher

(Head of Department)

Vienna, July 2019

## 2 Faculty and Staff

### Faculty

Ilya Archakov (Dr.)	Financial Econometrics
Immanuel Bomze (Prof.)	Operations Research and Quantitative Decision Support, Game Theory and Modelling of Behaviour, Optimization Theory and Application, Asymptotic Statistics, Stochastic Modelling, Dynamical Systems
Walter Gutjahr (Prof.)	Optimization Theory, Discrete Optimization, Stochastic Modeling, Multicriteria Decision Analysis
Nikolaus Hautsch (Prof.)	Financial Econometrics, Econometric Modelling of Financial High-Frequency Data, Time Series Econometrics, Time-Varying Volatility and Correlation, Market Liquidity, Market Microstructure Analysis, Systemic Risk, Information Processing on Financial Markets, Risk Management
Kory Johnson (PhD)	Feature selection, Post-selection inference, Fairness, Accountability, and Transparency in Machine Learning (FATML)
Irene Klein (Assoc. Prof.)	Stochastic Finance
Hannes Leeb (Prof.)	Model selection and predictive inference when the number of parameters is of the same order as sample size. Inference when fitting mis-specified models. Admissibility of confidence sets. Pitfalls in inference after model selection when using traditional approaches.
Markus Leitner (Dr.)	Operations Research, Combinatorial Optimization
Ivana Ljubic (Ass. Prof., on leave)	Algorithmic Operations Research, Algorithm Engineering
Ivana Milovic (PhD)	Model Selection in High-Dimensional Linear Models
Georg Pflug (Prof.)	Mathematical Statistics, Stochastic Optimization, Risk Management
Mathias Pohl (PhD)	Dependence modelling and Copulas, High Frequency Trading, Model Ambiguity, Optimal Transport, Portfolio Optimization, Robust Optimization
Benedikt Pötscher (Prof.)	Econometrics, Statistics, Time Series Analysis
Erhard Reschenhofer (Assoc. Prof.)	Time Series Analysis, Financial Econometrics, Automatic Model Selection, Chronobiology
Alexander Ristig (Dr.)	Financial econometrics and statistics, Copula and quantile-

based dependence concepts, Iterative estimation techniques, Applications in finance, risk management

Mario Ruthmair (Dr.)	Operations Research, Combinatorial Optimization, (Mixed) Integer Linear Programming, Optimization in Network Design, Transport and Logistics
Teresa Scarinci (Dr.)	Optimal control of ODEs (Sensitivity analysis, Optimality conditions, Numerical approximation of solutions of problems with constraints ), Nonsmooth analysis and Variational inequalities, Numerical analysis in optimization and optimal controls, Hamilton-Jacobi-Bellman equations
Werner Schachinger (Assoc. Prof.)	Optimization, Probabilistic Analysis of Algorithms
Nina Senitschnig (PhD)	Mathematical Statistics, Predictive Inference, Shrinkage
Markus Sinnl (PhD)	Theoretical and Computational Aspects of Mixed Integer (Non-)Linear Programming, Decomposition Methods for Mixed Integer (Non-)Linear Programming, Bilevel Programming, Combinatorial Optimization, Bi-and Multi-Objective Optimization, Robust and Stochastic Optimization Mathheuristics, Areas of Application: Network Design, Telecommunications, Systems Biology
Christopher Walsh (Dr.)	Non- and Semiparametric Statistics and Econometrics, Financial Econometrics, Time Series, High Dimensional Statistics

## PhD Students

Corina Birghila (MSc)	Extreme Value Theory, Insurance Pricing
Georg Brandstätter (Dipl.-Ing.)	Combinatorial Optimization, Integer Linear Programming, Transportation and Logistics Optimization
Daniela Escobar (MSc)	Linear and Non-Linear Time Series Analysis, Risk Management, Application in Energy Markets
Markus Gabl (MSc)	Copositive Optimization, Quadratic Optimization, Conic Optimization, Robust Optimization
Caroline Geiersbach (Dipl.-Ing.)	Optimal control of PDEs, Stochastic Optimization, Shape Optimization, Multiscale Methods, Numerical Methods
Martin Glanzer (Dipl.-Ing.)	Stochastic optimization and Quantitative Finance
Sandor Guzmics (MSc)	Stochastic Optimization, Financial Mathematics, Systemic Risk in Financial Systems
Johannes Happenhofer (MSc)	

Michael Kahr (MSc)	(Mixed) Integer Linear Programming, Stochastic and Robust Optimization, Conic Optimization, Network Optimization
Danijel Kivaranovic (Mag.)	Inference post-model-selection, Predictive inference with machine learning algorithms
Martin Luipersbeck (Dipl.-Ing.)	(Mixed) Integer Programming, Network Design, Algorithm
Manveer Mangat (Msc)	Time Series Analysis, Financial Econometrics
Christian Zwatz (Mag.)	Autocorrelation Robust Testing, Spatial Econometrics

### External Lecturers (Academic Year 2017/2018)

Andreas Baierl (University of Vienna), Johann Brandstetter (University of Vienna), Florian Frommlet (MedUni Vienna), Annemarie Grass (University of Vienna), Wilfried Grossmann (University of Vienna), Moshe Haviv (Hebrew University of Jerusalem), Marcus Hudec (University of Vienna), Christoph Krall (University of Vienna), Nysret Musliu (TU Vienna), Herbert Nagel (WU Vienna), Daniel Obszelka (University of Vienna), Robin Ristl (MedUni Vienna), Theresa Scharl-Hirsch (Boku Vienna), Leopold Sögner (IHS Vienna), Alexander Tichy (VetMedUni Vienna), Anna Timonina-Farkas (EPFL Switzerland), Clemens Sauerzopf (Data Technology), Gerhard Svolba (SAS), Gabriele Uchida (University of Vienna), Claus Vogl (VetMedUni Vienna), Bertram Wassermann (University of Vienna).

### Teaching Assistants (Academic Year 2017/2018)

William Burton, Nathalie Coreth (née Hövell) , Manuel Hahn, Thomas Hillebrand, Azadeh Sadat Mirtaheri, Manuel Müller, Stefan Ortner, Alexandra Posa, Raphael Rath, Anastasiia Riabushkina, Christoph Sattler, Thomas Stark.

### Administrative Assistants

Julia Brandstätter, Lisa Carli, Birgit Ewald, Gerald Kamhuber (on leave), Vera Lehmwald, Manuela Nicham-Zorn, Dominique Sundt.

### System Administrators

Jürgen Berlakovich, Stefan Geissler, Rolf Karner, Andreas Loibl, Martin Marktl, Svetlana Mihajlovic.

## 3 Visitors

Heinz Bauschke (University of British Columbia, Canada), Luis Gouveia (University of Lisbon, Portugal), Daniel Kuhn (École polytechnique fédérale de Lausanne, Switzerland), Petra Mutzel (Technische Universität Dortmund, Germany), Arkadi Nemirovski (Georgia Institute of Technology,

USA), Richard Olsen (Lykke), Maria Teresa Gonzalez Perez (Colegio Universitario de Estudios Financieros, Spain), Claudia Sagastizabal (Universidade Estadual de Campinas, Brasil), Alexander Shapiro (Georgia Institute of Technology, USA)

## 4 Teaching

### PhD Theses in Progress

Supervisor	Author	Title
Immanuel Bomze	Philipp Hungerländer (Alpen-Adria-Universität Klagenfurt, Austria)	Extensions of the Traveling Salesman Problem
Immanuel Bomze	Markus Gabl	A copositive approach to adjustable robust optimization with uncertain recourse
Immanuel Bomze, Markus Leitner	Michael Kahr	Optimization in Social Networks: Influence Propagation and Community Detection
Nikolaus Hautsch	Stefan Voigt (VGSF)	TBA
Nikolaus Hautsch	Maximilian Bredendiek (VGSF)	Essays in Empirical Asset Pricing
Hannes Leeb	Johannes Happenhofer	TBA
Hannes Leeb	Danijel Kivaranovic	Statistical analysis and development of inference procedures post-model-selection
Ivana Ljubic, Markus Leitner	Georg Brandstätter	Solving optimization problems arising in the context of electric car sharing systems
Georg Pflug	Corina Birghila	Insurance premium under ambiguity
Georg Pflug	Daniela Escobar	Analysis of Risk Premia in Energy Markets
Georg Pflug	Caroline Geiersbach	Stochastic Models in Shape Optimization
Georg Pflug	Martin Glanzer	Pricing of Contingent Claims under Model Ambiguity
Georg Pflug	Sandor Guzmics	Systemic Risk in Financial Systems
Benedikt M. Pötscher	Christian Zwat	Topics in Autocorrelation Robust Testing and Spatial Models
Erhard Reschenhofer	Manveer Mangat	Essays on stock return and volatility forecasting

## PhD Theses Finished

Supervisor	Author	Title
Nikolaus Hautsch	Akos Horvath	The Effectiveness of Post-Crisis Regulatory Measures
Georg Pflug, Walter Schachermayer	Mathias Pohl	Robust portfolio optimization with copulas
Erhard Reschenhofer	Marek Chudy	Essays on forecasting of economic and financial time series

## Master Theses in Progress

Supervisor	Author	Title
Nikolaus Hautsch	André Thea	Forecasting Realised Volatility Using Jumps at Ultra-High Frequency
Nikolaus Hautsch	Thomas Hillebrand	TBA
Nikolaus Hautsch	Yelena Govgolenko	TBA
Mario Ruthmair Markus Leitner	Raimund Hirz	Obtaining Exact Solutions for the Traveling Salesman Problem with Drone
Mario Ruthmair	Johann Schiffer	Vehicle Routing in Medical Support (preliminary title)
Werner Schachinger	Simon Klima	Random Graphs and the Giant Component
Werner Schachinger	Rafael Jochum	Verzweigungsprozesse – Theorie und Anwendung

## Master Theses Finished

Supervisor	Author	Title
Walter Gutjahr	Rath, Raphael	Bikriterielle ungleichheits-averse Standortoptimierung für Hilfseinrichtungen in Erdbebenregionen
Walter Gutjahr	Güttler, Julia	Including tour costs in a covering problem with user equilibria
Walter Gutjahr	Fischer, Sophie	Fairness und Deprivation Costs in der Humanitären Logistik: ein Lösungsansatz mittels Partikelschwarmoptimierung



Walter Gutjahr	Özdemir, Cicek	Modellierung von Unsicherheit im Transportproblem
Walter Gutjahr	Celik, Hülya	Risikoanalyse für das lineare Zuordnungsproblem mit zufälligen Erträgen
Walter Gutjahr	Schmid, Sabrina	Kosteneffizienz und Standortoptimierung von Cooling Centers
Nikolaus Hautsch	Eva Kranebitter	Effectiveness of European and US-American Quantitative Easing: A Comparison
Georg Pflug	Christoph Schachinger	Portfolio optimization via smoothing the V@R
Georg Pflug	Michal Majka	Modelling of low probability high impact events
Erhard Reschenhofer	Nathalie Marie Agnes Coreth	A predictive model for identifying patients at risk for secondary progressive multiple sclerosis progression
Erhard Reschenhofer	Iwona Lewicka	Study of disaster risk models across blocks of developed and less-developed countries
Erhard Reschenhofer	Tomislav Marušćak	Data Analytics for Smart Product Configuration – Statistical Analysis of Operational Log Data in a Smart City Platform
Mario Ruthmair Markus Leitner	Ludwig Müller	The Target Set Selection Problem with Arbitrary Edge Weights
Mario Ruthmair Markus Leitner	Zvezdana Milosevic	Crowdsourced Delivery: An Alternative to In-House Delivery

## Bachelor Theses

Immanuel Bomze (5)

Hannes Leeb (1)

Erhard Reschenhofer (2)

## 5 Publications

### Journal Articles

Bomze, Immanuel; Cheng, Jianqiang; Dickinson, Peter; Lisser, Abdel; Liu, Jia: Notoriously hard (mixed-)binary QPs: empirical evidence on new completely positive approaches. In: *Computational Management Science*. 2018

Bomze, Immanuel; Rinaldi, Francesco; Rota Bulò, Samuel: Pure infection–immunization dynamics for partnership games: A correction. In: *Games and Economic Behavior*. 2018

Bomze, Immanuel: On minimal Hölder gaps and Shannon entropy balance. In: *Portugaliae Mathematica*. 2018, Vol. 75, No. 1. pp. 1-10

Bomze, Immanuel; Jeyakumar, Vaithilingam; Li, Guoyin: Extended trust-region problems with one or two balls: exact copositive and Lagrangian relaxations. In: *Journal of Global Optimization*. 2018, Vol. 71, No. 3. pp. 551-569

Bomze, Immanuel: Building a completely positive factorization. In: *Central European Journal of Operations Research*. 2018, Vol. 26, No. 2. pp. 287-305

Bomze, Immanuel; Schachinger, Werner; Ullrich, Reinhard: The complexity of simple models: a study of worst and typical hard cases for the Standard Quadratic Optimization Problem. In: *Mathematics of Operations Research*. 2018, Vol. 43, No. 2. pp. 651-674

Bomze, Immanuel; Dörner, Karl; Hartl, Richard; Leopold-Wildburger, Ulrike; Pflug, Georg; Rauner, Marion; Stummer, Christian; Tragler, Gernot; Wakolbinger, Tina: Emerging and innovative OR applications: a special issue in honor of Walter J. Gutjahr. In: *Central European Journal of Operations Research*. 2018, Vol. 26, No. 2. pp. 259-263

Escobar, Daniela; Pflug, Georg: The distortion principle for insurance pricing: properties, identification and robustness. In: *Annals of Operations Research*. 2018, Vol. 95, No. 10. pp. 1950-1972

Fischetti, Mario; Monaci, Michele; Sinnl, Markus: A dynamic reformulation heuristic for Generalized Interdiction Problems. In: *European Journal of Operational Research*. 2018, Vol. 267, No. 1. pp. 40-51

Glanzer, Martin; Pflug, Georg; Pichler, Alois: Incorporating statistical model error into the calculation of acceptability prices of contingent claims. In: *Mathematical Programming*. 2018, Vol. 174, No. 1. pp. 499-524

Gutjahr, Walter; Fischer, Sophie: Equity and deprivation costs in humanitarian logistics. In: *European Journal of Operational Research*. 2018, Vol. 270, No. 1. pp. 185-197

Niessner, Helmut; Rauner, Marion; Gutjahr, Walter: A dynamic simulation-optimization approach for managing mass casualty incidents. In: *Operations Research for Health Care*. 2018, Vol. 17, pp. 82-100

- Felberbauer, Thomas; Gutjahr, Walter; Dörner, Karl Franz: Stochastic project management: Multiple projects with multi-skilled human resources. In: *Journal of Scheduling*. 2018
- Hautsch, Nikolaus; Voigt, Stefan: Large-Scale Portfolio Allocation Under Transaction Costs and Model Uncertainty. In: *Journal of Econometrics*. 2018
- Fischetti, Matteo; Kahr, Michael; Leitner, Markus; Monaci, Michele; Ruthmair, Mario: Least cost influence propagation in (social) networks. In: *Mathematical Programming*. 2018; Vol. 170, No. 1. pp. 293-325
- Cordero, Fernando; Klein, Irene; Perez-Ostafe, Lavinia: Asymptotic arbitrage in fractional mixed markets. In: *Modern Stochastics: Theory and Applications*. 2018; Vol. 5, No. 4. pp. 415–428
- Bachoc, Francois; Leeb, Hannes; Pötscher, Benedikt: Valid Confidence Intervals for Post-Model-Selection Predictors. In: *Annals of Statistics*. 2019, Vol. 47, No. 3. pp. 1475-1504
- Steinberger, Lukas; Leeb, Hannes: On conditional moments of high-dimensional random vectors given lower-dimensional projections. In: *Bernoulli: A journal of mathematical statistics and probability*. 2018; Vol. 24, No. 1. pp. 565–591
- Leitner, Markus; Ljubic, Ivana; Riedler, Martin; Ruthmair, Mario: Exact approaches for the directed network design problem with relays. In: *Omega*. 2018
- Leitner, Markus; Ljubic, Ivana; Luipersbeck, Martin; Sinnl, Markus: Decomposition methods for the two-stage stochastic Steiner tree problem. In: *Computational Optimization and Applications*. 2018, Vol. 69, No. 3. pp. 713–752
- Leitner, Markus; Ljubic, Ivana; Luipersbeck, Martin; Sinnl, Markus: A dual-ascent-based branch-and-bound framework for the prize-collecting Steiner tree and related problems. In: *INFORMS Journal on Computing*. 2018, Vol. 30, No. 2. pp. 217-420
- Gouveia, Luis; Joyce Moniz, Martim Barros; Leitner, Markus: Branch-and-cut methods for the network design problem with vulnerability constraints. In: *Computers & Operations Research*. 2018, Vol. 91, pp. 190-208
- Brännström, Ake; Boza, Gergely; Dieckmann, Ulf; Hochrainer-Stigler, Stefan; Linnerooth-Bayer, Joanne; Pflug, Georg; Poledna, Sebastian; Rovenskaya, Elena; Thurner, Stefan: Integrating Systemic Risk and Risk Analysis Using Copulas. In: *International Journal of Disaster Risk Science*. 2018, Vol. 9, No. 4. pp. 561-567
- Brännström, Ake; Boza, Gergely; Colon, Célian; Dieckmann, Ulf; Hochrainer-Stigler, Stefan; Linnerooth-Bayer, Joanne; Pflug, Georg; Poledna, Sebastian; Rovenskaya, Elena; Thurner, Stefan: Modelling, Measuring and Managing Systemic Risk: The Missing Human Agency Aspect. In: *Journal of Risk Research*. 2018
- Maggioni, Francesca; Pflug, Georg: Guaranteed Bounds for General Non-Discrete Multistage Risk-Averse Stochastic Optimization Programs. In: *SIAM Journal on Optimization*. 2018, Vol. 29, No. 1. pp. 454-483

Maier, Sebastian; Pflug, Georg; Polak, John: Valuing Portfolios of Interdependent Real Options under Exogenous and Endogenous Uncertainties. In: European Journal of Operational Research. 2018

Pflug, Georg; Pohl, Matthias: A review on ambiguity in stochastic portfolio optimization. In: Set-Valued and Variational Analysis. 2018; Vol. 26, No. 4. pp. 733-757

Pflug, Georg; Pichler, Alois: Systemic risk and copula models. In: Central European Journal of Operations Research. 2018, Vol. 26, No. 2. pp. 465-483

Pötscher, Benedikt; Leeb, Hannes; Kivaranovic, Danjuel: Discussion of "Model Confidence Bounds for Variable Selection" by Yang Li, Yuetian Luo, Davide Ferrari, Xiaonan Hu, and Yichen Qin. In Biometrics. 2018

Pötscher, Benedikt; Preinerstorfer, David: Controlling the Size of Autocorrelation Robust Tests. In: Journal of Econometrics. 2018, Vol. 207, pp. 406-431

Gouveia, Luís ; Pesneau, Pierre ; Ruthmair, Mario ; Santos, Daniel : Combining and projecting flow models for the (precedence constrained) asymmetric traveling salesman problem. In: Networks (New York): an international journal. 2018; Vol. 71, No. 4. pp. 451-465

Albano, Paolo; Cannarsa, Piermarco; Scarinci, Teresa: Sur la régularité partielle des solutions de l'équation eikonale sous-elliptique. In: Comptes Rendus Mathématique. 2018; Vol. 356, No. 2. pp. 172-176

Albano, Paolo; Cannarsa, Piermarco; Scarinci, Teresa: Regularity results for the minimum time function with Hörmander vector fields. In: Journal of Differential Equations. 2018; Vol. 264, No. 5.

Pietrus, Alain; Scarinci, Teresa; Veliov, Vladimir: High order discrete approximations to Mayer's problems for linear systems. In: SIAM Journal on Control and Optimization. 2018; Vol. 56, No. 1. pp. 102-119

Reschenhofer, Erhard: Heteroscedasticity-robust estimation of autocorrelation. In: Communications in Statistics: Simulation and Computation. 2018

Scarinci, Teresa; Veliov, Vladimir: Higher-order numerical scheme for linear quadratic problems with bang–bang controls. In: Computational Optimization and Applications. 2018; Vol. 29, No. 2. pp. 403–422

## Contributions to Proceedings and Edited Books

Gutjahr, Walter; Zehetner, Michaela: Sampling-based genetic algorithms for the bi-objective stochastic covering tour problem. In: Recent Developments in Metaheuristics (Computer Science Interfaces Series, Vol. 62) (Lionel Amodeo, El-Ghazali Talbi, Farouk Yalaoui, eds.) Springer, 2018. pp. 253-284

Preininger, Jakob; Scarinci, Teresa; Veliov, Vladimir: On the regularity of linear-quadratic optimal control problems with Bang-Bang solutions. In: Large-Scale Scientific Computing - 11th International Conference, LSSC 2017, Revised Selected Papers. (Ivan Lirkov, Svetozar Margenov, eds.) (Lecture Notes in Computer Science) Springer, 2018. pp. 237-245

## Working Papers

Birghila, Corina; Pflug, Georg: Optimal XL-insurance under Wasserstein-type ambiguity. 2018

Birghila, Corina; Pflug, Georg; Hochrainer-Stigler, Stefan: Risk layering under ambiguity: an application to farmers exposed to drought risk. 2018

Geiersbach, Caroline; Pflug, Georg: Projected Stochastic Gradients for Convex Constrained Problems in Hilbert Spaces. arXiv. 2018

Hautsch, Nikolaus; Scheuch, Christoph; Voigt, Stefan: Limits to Arbitrage in Markets with Stochastic Settlement Latency. 2018. (Center for Financial Studies; 616).

Eckstein, Stephan; Kupper, Michael; Pohl, Mathias: Robust risk aggregation with neural networks. arXiv. 2018

## 6 Dissemination of Research

### Presentations at Workshops and Conferences

	Conference	Title of Presentation
Corina Birghila	RISK seminar, Laxenburg, Austria	Risk management under model ambiguity.
Corina Birghila	8th International Conference on Mathematical and Statistical Methods for Actuarial Science and Finance, Madrid, Spain	Robust insurance contracts
Corina Birghila	Workshop Robust Finance 2018, Freiburg, Germany (Invited Speaker)	Optimal insurance contract under ambiguity. Applications in extreme events.
Corina Birghila	13th German Probability and Statistics Days, Freiburg, Germany	Design of insurance contract under ambiguity.
Corina Birghila	Allianz Climate Risk Research Award, Munich, Germany (Invited Speaker)	Insurance under ambiguity
Corina Birghila	11th Freiburg–Wien–Zürich Seminar, Freiburg, Germany	Tail analysis: a worst-case approach
Corina Birghila	European Actuarial Journal Conference 2018, Leuven, Belgium	Optimal XL-insurance contract under model uncertainty
Corina Birghila	Freiburg–Wien–Zürich Workshop, Strobl, Austria	Optimal insurance contract under ambiguity. Applications in extreme events.
Immanuel Bomze	SPOC18 "Machine Learning, Networks and Combinatorial Optimization", Paris, France (Invited speaker)	Robust clustering in social networks
Immanuel Bomze	International Conference on Optimization and Decision Science, Taormina, Italy	Trust your data or not - Standard remains Standard (QP); implications for robust clustering in social networks
Immanuel Bomze	16th EUROPT Workshop on Advances in Continuous Optimization, Almeria, Spain	Notoriously hard (mixed-)binary QPs: new CP approaches and empirical evidence
Immanuel Bomze	23rd International Symposium on Mathematical Programming, Bordeaux, France	Active-set identification in Frank-Wolfe variants on the standard simplex

Immanuel Bomze	NATCOR : Convex Optimization, Edinburgh, England (Keynote speaker)	Different duals in conic optimization - closure can tighten the duality gap
Immanuel Bomze	6th Toulouse Economics and Biology Workshop, Toulouse, France (Invited speaker)	Aiding cognition in complex structures
Immanuel Bomze	International Conference on Optimization, Irsee, Germany (Keynote speaker)	Trust your data or not - Standard remains Standard (QP); implications for robust clustering in social networks
Immanuel Bomze	Workshop on Graph Spectra Combinatorics and Optimization, Aveiro, Portugal	Robust clustering in social networks
Marek Chudy	1st Vienna Workshop on Economic Forecasting 2018, Vienna, Austria	Long-Term Prediction Intervals of Economic Time Series
Daniela Escobar	Computational Management Science 2018, Trondheim, Norway	Distortion premium principle: properties, identification and robustness
Daniela Escobar	29th European conference on Operational Research (EURO XXIX) 2018, Valencia, Spain	Stochastic dynamic programming for the valuation of a power plant
Daniela Escobar	Energy and Finance Christmas Workshop, Bolzano, Italy (Invited speaker)	Identification of distortion functions in power markets
Markus Gabl	ISMP Conference, Bordeaux, France	Copositive Approach to Adjustable Robust Optimization with uncertain recourse
Markus Gabl	29th European Conference on Operational Research, Valencia, Spain	Copositive Approach to Adjustable Robust Optimization with uncertain recourse
Markus Gabl	16th EUROPT Workshop on Advances in Continuous Optimization, Almeria, Spain	Copositive Approach to Adjustable Robust Optimization with uncertain recourse
Caroline Geiersbach	14th Viennese Conference on Optimal Control and Dynamic Games, Vienna, Austria (Invited Speaker)	A stochastic gradient algorithm for shape optimization
Caroline Geiersbach	Oberwolfach Workshop: New Directions in Stochastic Optimisation, Oberwolfach, Germany	Stochastic Gradients for PDE Constrained Optimization under Uncertainty

Caroline Geiersbach	5th European Conference on Computational Optimization, Trier, Germany	Stochastic gradient algorithm for PDE constrained optimization under uncertainty
Caroline Geiersbach	4th Central European Set-Valued and Variational Analysis Meeting (CESVVAM), Marburg, Germany (Invited Speaker)	A Stochastic Gradient Algorithm for PDE Constrained Optimization under Uncertainty
Caroline Geiersbach	VWCO Workshop, Vienna, Austria	Shape Optimization for Interface Identification under Uncertainty
Martin Glanzer	VGSCO Retreat, Neusiedl am See, Austria	Distributionally robust acceptability pricing of contingent claims
Martin Glanzer	VGSCO Kolloquium WS 2018/19, Vienna, Austria (Invited speaker)	Scenario generation and model ambiguity for multiscale stochastic optimization problems
Martin Glanzer	10th World Congress of the Bachelier Finance Society, Dublin, Ireland	Incorporating statistical model error into the calculation of acceptability prices of contingent claims.
Martin Glanzer	EURO 2018: 29th European Conference, Valencia, Spain	Multiscale scenario generation for a power plant valuation problem.
Martin Glanzer	Computational Management Science 2018, Trondheim, Norway	A sequential linear programming algorithm to compute distributionally robust acceptable prices of contingent claims.
Martin Glanzer	Euro Working Group on Commodities and Financial Modelling 2018, Kaunas, Lithuania	Incorporating statistical model error into the calculation of acceptability prices of contingent claims.
Sandor Guzmics	7th Austrian Stochastic Days, Vienna, Austria	Copula orderings in a modified exponential lifetimel model
Sandor Guzmics	20th European Conference on Mathematics for Industry, Budapest, Hungary	Stochastic Order Relations in Various Environments
Nikolaus Hautsch	Interdisziplinäres Symposium zu Kryptowährungen, Vienna, Austria (Invited Speaker)	Limits to Arbitrage in Markets with Stochastic Latency
Nikolaus Hautsch	11th Annual Meeting of the Society	Revisiting the Stealth Trading



	for Financial Econometrics (SoFiE), Lugano, Switzerland	Hypothesis: Does Time-Varying Liquidity Explain the Size-Effect?
Nikolaus Hautsch	Conference on Frontiers in High-Frequency Financial Econometrics, Pisa, Italy (Keynote speaker)	Limits to Arbitrage in (Blockchain-Based) Markets with Stochastic Latency
Nikolaus Hautsch	CUNEF - Colegio Universitario de Estudios Financieros, Madrid Spain (Invited Speaker)	Limits to Arbitrage in (Blockchain-Based) Markets with Stochastic Latency
Nikolaus Hautsch	International Workshop on New Frontiers in Financial Markets, Madrid, Spain (Invited Speaker)	Large Scale Portfolio Allocation Under Transaction Costs and Model Uncertainty
Kory Johnson	Workshop in model selection, regularization and interference, Vienna, Austria	Sequential Testing for Inference During Model Selection
Kory Johnson	Royal Statistical Society 2018 International Conference, Cardiff, Wales (Invited Speaker)	Stopping Stepwise Regression with the Sequential Rejection Principle
Kory Johnson	Larry Brown Memorial Workshop, Philadelphia, USA	Comment: Exact Post-selection Inference for Sequential Regression Procedures Young Researcher Session
Kory Johnson	Computational and Methodological Statistics 2018, Pisa, Italy (Invited Speaker)	Revisiting Alpha-Investing: mFDR Control in Polynomial Regression
Michael Kahr	EURO 2018: 29th European Conference	Robust StQP and community detection in social networks
Irene Klein	Freiburg-Vienna-Zürich-Seminar, Freiburg, Germany (Invited Speaker)	Two filtrations in insurance
Hannes Leeb	Workshop Model Selection, Regularization, and Inference, Vienna, Austria	Prediction when fitting simple models to high-dimensional data
Markus Leitner	OR 2018: International Conference on Operations Research, Brussels, Belgium	The Electric Arc Routing Problem
Markus Leitner	EURO 2018: 29th European Conference, Valencia, Spain	Using Variables Aggregation and Benders Decomposition for Solving Large-Scale Extended Formulations

		& Robust StQP and community detection in social networks
Georg Pflug	VOCAL Optimization Conference: Advanced Algorithms, Esztergom, Hungary	Stochastic Optimization in Hilbert Spaces with Applications to Shape Optimization
Georg Pflug	Variational Analysis: Challenges in Energy, Castro Urdiales, Spain (Invited Speaker)	Valuation of a Power Plant by Stochastic Dynamic Optimization
Georg Pflug	Conference on Computational Management Science, Trondheim, Norway	Generation of Scenarios for Multistage Stochastic Optimization
Georg Pflug	EURO Working Group for Commodities and Financial Modelling, Kaunas, Lithuania (Invited speaker)	Measuring Systemic Risk
Georg Pflug	Distributionally Robust Optimization, Banff, Canada (Invited speaker)	Distributional Robustness for Multiperiod Stochastic Programs
Georg Pflug	Stochastic Optimization in Energy, Winter School "Stochastic Optimization in Energy" Geilo, Norway	Model uncertainty in energy and in financial optimization
Mathias Pohl	ISOR Colloquium, Vienna, Austria (Invited speaker)	Robust risk aggregation with neural networks
Mathias Pohl	Financial Econometrics Conference: Market Microstructure, Limit Order Books and Derivative Markets, Lancaster, Great Britain	Theoretical and empirical analysis of trading activity
Mathias Pohl	New Directions in Stochastic Optimisation, Oberwolfach, Germany	Ambiguity in stochastic optimization
Mathias Pohl	Model Uncertainty and Robust Finance: Second Edition, Milan, Italy	A review on ambiguity in stochastic portfolio optimization
Benedikt Pötscher	A Celebration of Peter Phillips Forty Years at Yale, USA (Invited speaker)	Controlling the Size of Autocorrelation Robust Tests
Mario Ruthmair	OR 2018: International Conference on Operations Research, Brussels, Belgium	Least Cost Influence Propagation in (Social) Networks
Mario Ruthmair	EURO 2018: 29th European Conference, Valencia, Spain	Least Cost Influence Propagation in (Social) Networks

Teresa Scarinci	International Workshop Analysis, Control and Inverse Problem on PDEs, Napoli, Italy (Invited speaker) (part of project LIA-COPDESC)	Some results about stability analysis, regularizations and applications to splitting
Teresa Scarinci	14-th International Workshop on Well-Posedness of Optimization Problems and Related Topics, Sofia, Bulgaria	On the Smoothness and the Singular Support of the Minimum Time Function under Bracket-Generating Co
Teresa Scarinci	14th Viennese Conference on Optimal Control and Dynamic Games, Vienna, Austria	Stability analysis for optimal control problems with bang-bang solutions
Teresa Scarinci	7th International Conference on High Performance Scientific Computing: Modeling, Simulation and Optimization of Complex Processes, Hanoi, Vietnam	On the Regularity and the Singular Support of the Minimum Time Function with Hörmander Vector Fields
Teresa Scarinci	Games, Dynamics and Optimization GDO2018 Conference, Vienna, Austria	On the solutions to a class of subelliptic eikonal equations arising in optimal control

## Outside Seminars

	Institution	Title of Presentation
Immanuel Bomze	Universidad de La Laguna, Spain (invited)	Robust clustering in social networks
Immanuel Bomze	Università della Calabria, Italy (invited)	First-order methods for the impatient: support identification in finite time with convergent Frank-Wolfe variants
Immanuel Bomze	Technische Universität München (invited)	Trust your data or not - Standard remains Standard (QP); implications for robust clustering in social networks
Immanuel Bomze	Università degli Studi di Padova (invited)	Trust your data or not - Standard remains Standard (QP); implications for robust clustering in social networks
Immanuel Bomze	Università Degli Studi di Siena (invited)	Trust your data or not - Standard

		remains Standard (QP); implications for robust clustering in social networks
Immanuel Bomze	Università degli Studi di Bergamo (invited)	Trust your data or not - Standard remains Standard (QP); implications for robust clustering in social networks
Nikolaus Hautsch	Karl-Franzens-Universität Graz (invited)	Limits to Arbitrage in (Blockchain- Based) Markets with Stochastic Latency
Nikolaus Hautsch	Erasmus University Rotterdam (invited)	Large Scale Portfolio Allocation Under Transaction Costs and Model Uncertainty
Nikolaus Hautsch	University of Oxford, Great Britain (invited)	Large Scale Portfolio Allocation Under Transaction Costs and Model Uncertainty
Hannes Leeb	Erasmus Research Institute of Management, Netherlands (invited)	Prediction when fitting simple models to high-dimensional data.
Georg Pflug	Humboldt-Universität zu Berlin, Germany (invited)	Stochastic Shape Optimization
Benedikt Pötscher	Université Libre de Bruxelles, Belgium (invited)	Further Results on Size and Power of Autocorrelation Robust Tests, with an Application to Trend Testing
Benedikt Pötscher	Queen Mary University of London, Great Britain (invited)	Controlling the Size of Autocorrelation Robust Tests
Teresa Scarinci	Università degli Studi di Roma "Tor Vergata", Italy	On the regularity and the singular support of the minimum time function with Hörmander vector fields
Mathias Pohl	Universität Konstanz, Konstanz, Germany	On the regularity and the singular support of the minimum time function with Hörmander vector fields

## Departmental Seminar (ISOR Colloquium)

January 15      Mikhail Solodov (IMPA Rio de Janeiro)      Newton-Type Methods: A Broader View

January 22	Jean-Michel Zakoian (CREST, Paris)	Estimation risk for the VaR of portfolios driven by semi-parametric multivariate models (with Christian Francq)
March 19	Joergen Weibull (HHS Sweden)	On the invariance of the maximum
April 9	Christoph Rothe (University of Mannheim )	Bounds on Treatment Effects in Regression Discontinuity Designs with a Manipulated Running Variable (with F. Gerard & M. Rokkanen)
April 16	Yarema Okhrin (Univ. of Augsburg)	Vine-based modelling of (multivariate) realized volatility time series
April 23	Roberto Cominetti (Univ. A. Ibanez, Santiago de Chile)	Rates of convergence for the Krasnoselskii-Mann fixed point iteration
May 07	Tobias Harks (Univ. Augsburg)	Sensitivity Analysis for Convex Separable Optimization over Integral Polymatroids
May 14	Francesco Rinaldi (Univ. Padova)	First order algorithms for constrained optimization problems in Machine Learning
May 28	Siegfried Hörmann (TU Graz)	On the prediction of stationary functional time series
June 04	Diethard Klatte (Berlin)	Some Extensions of the Frank-Wolfe Theorem
June 18	Dick den Hertog (Univ. Tilburg)	Robust Nonlinear Optimization with Convex Uncertainty
October 1	Moshe Haviv (HU Jerusalem)	Externalities, optimization and regulation in queues
October 8	Tatiana Tchemisova Cordeiro (Univ. Aveiro)	On phenomenon of Immobility in study of convex Optimization problems (with Olga Kostyukova)
October 15	Maria Grazia Scutellà (Univ. Pisa)	Robust network optimization against uncertain demands
October 22	Daniel Wilhelm (UCL)	Testing for the Presence of Measurement Error
October 29	Alois Kneip (University of Bonn)	On the Optimal Reconstruction of Partially Observed Functional Data
November 6	René Henrion (WIAS Berlin, Germany)	Probabilistic Constraints in infinite dimensions

November 5	Ilya Archakov (ISOR)	On The Modeling of Covariance Matrices: A Generalized Fisher Transformation (with Peter Reinhard Hansen)
November 12	Jakub Marecek (IBM Dublin)	Recommender Systems and their Effects
November 19	Peter Filzmoser (TU Vienna)	Robust estimators of maximum association
December 3	Mathias Pohl (ISOR)	Robust risk aggregation with neural networks (Joint work with Stephan Eckstein and Michael Kupper)
December 10	Damian Kozbur (University of Zurich)	Inference for Dependent Data with Cluster Learning

## 7 Grants and Externally Funded Research Projects

Immanuel Bomze (Project-Coordinator, taken over from Ivana Ljubic in 09/2015) Research Associates: Ivana Ljubic, Christina Büsing, Markus Leitner, Mario Ruthmair, Markus Sinnl, Martin Luipersbeck, Georg Brandstätter	Title: Network Optimization in Bioinformatics and System Biology Funding: FWF Funding period: 2014-2019
Christa Cuchiero (Project-Coordinator), Irene Klein (Co-Investigator), Thorsten Schmidt (Co-Investigator) Research Associate: Lars Niemann	Title: Dynamic Uncertainty Modeling in Finance Funding: FWF Funding period: 2018-2021
Nikolaus Hautsch (Principal Investigator) Research Associate: Ilya Archakov	Title: Order Book Foundations of Price Risks and Liquidity: An Integrated Equity and Derivatives Markets Perspective Funding: FWF Funding period: 2017-2020
Hannes Leeb (Principal Investigator) Research Associate: Ivana Milovic	Title: Model selection and inference with sparse models when the true model need not be sparse Funding: FWF Funding period: 2015-2018
Hannes Leeb (Principal Investigator) Research Associate: Nina Senitschnig	Title: Shrinkage estimators for prediction out-of-sample Funding: FWF Funding period: 2014-2018
Markus Leitner (Principal Investigator) Research Associates: Mario Ruthmair, Michael Kahr	Title: Optimization and Analysis of Large-Scale Networks Funding: WWTF Funding period: 2015-2019

Georg Pflug (Project-Coordinator),  
 Immanuel Bomze (Co-Investigator),  
 Radu Ioan Bot (Co-Investigator),  
 Monika Henzinger (Co-Investigator),  
 Arnold Neumaier (Co-Investigator),  
 Günther Raidl (Co-Investigator)  
 Hermann Schichl (Co-Investigator),  
 Teresa Scarinci (Scientific Coordinator &  
 post-doc assistant)  
 Research Associates: Axel Böhm, Marko  
 Djukanovic, Markus Gabl, Caroline  
 Geiersbach, Mathias Horn, Morteza  
 Kimiaei, Stefan Neumann, Dang Khoa  
 Nguyen

Title: Vienna Graduate School on Computational  
 Optimization (VGSCO)  
 Funding: FWF  
 Funding period: 2016-2020

Georg Pflug (Project-Coordinator)  
 Research Associates: Daniela Escobar,  
 Martin Glanzer

Title: Incorporating Model Error in the Management of  
 Electricity Portfolios  
 Funding: Université de Paris Sud Mathématique – FMJH  
 Funding period: 2017-2019

C. Pignotti (Project Coordinator),  
 Teresa Scarinci (Co-Investigator)

Title: Analysis and control of nonlinear differential  
 models  
 Funding: INdAM (Italian National Institute of High  
 Mathematics)  
 Funding period: 2018

Walter Schachermayer (Project-  
 Coordinator), Nikolaus Hautsch (Co-  
 Investigator), Georg Pflug (Co-  
 Investigator)  
 Research Associates: Mathias Pohl,  
 Alexander Ristig, Ludovic Tangpi

Title: Portfolio Risk and Asset Allocation - Utilizing High-  
 Frequency Information in High Dimensions  
 Funding: WWTF  
 Funding period: 2015-2019

## 8 Research Stays at Other Institutions

	Institution	Weeks
Immanuel Bomze	Université Paris XIII, France	1
Immanuel Bomze	Kraków University of Economics, Poland	0,5
Immanuel Bomze	Université Paris XI - Paris-Sud	0,5
Marek Chudy	The University of Chicago, USA	24
Daniela Escobar	EDF R&D, Paris, France	1,5
Caroline Geiersbach	Regensburg University, Germany	0,5

Caroline Geiersbach	TU Darmstadt, Germany	0,5
Caroline Geiersbach	Trier University, Germany	1
Martin Glanzer	EDF R&D, Paris, France	1,5
Markus Leitner	ESSEC Business School of Paris, France	1
Markus Leitner	Université Libre de Bruxelles, Belgium	1
Markus Leitner	Universidade de Lisboa, Portugal	0,5
Georg Pflug	Università degli studi di Bergamo, Italy	1
Georg Pflug	Freie Universität Bozen, Italy	1
Mario Ruthmair	ESSEC Business School, France	0,5
Mario Ruthmair	Universidade de Lisboa, Portugal	0,5
Teresa Scarinci	Institut Fourier, Université Grenoble Alpes – CNRS, France	0,5

## 9 Other Faculty Activities

### Editorial Work

Immanuel Bomze	Editor
	<ul style="list-style-type: none"> <li>▪ European Journal of Operational Research</li> </ul>
	Associate Editor
	<ul style="list-style-type: none"> <li>▪ Central European Journal of Operations Research</li> </ul>
	Member of Editorial Board
	<ul style="list-style-type: none"> <li>▪ Advances in Data Analysis and Classification</li> <li>▪ Journal of Global Optimization</li> <li>▪ Optimization Letters</li> <li>▪ Operations Research Perspectives</li> </ul>
Walter Gutjahr	Co-Editor
	<ul style="list-style-type: none"> <li>▪ OR Spectrum</li> </ul>
	Associate Editor
	<ul style="list-style-type: none"> <li>▪ Central European Journal of Operations Research</li> </ul>
	Member of Editorial Board
	<ul style="list-style-type: none"> <li>▪ Production and Operations Management</li> <li>▪ EURO Journal on Decision Processes</li> </ul>



- Nikolaus Hautsch
- Associate Editor
- Journal of Applied Econometrics
  - Journal of Business & Economic Statistics
  - International Journal of Forecasting
  - Empirical Economics
  - Journal of Financial Econometrics
  - Market Microstructure and Liquidity
- Member of Editorial Board
- Econometrics
- Hannes Leeb
- Associate Editor
- Sankhya: Indian Journal of Statistics
- Georg Pflug
- Associate Editor
- Computational Optimization and Applications
  - Computational Management Science
  - Central European Journal of OR
  - Austrian Journal of Statistics
  - Energy Systems: Optimization, Modeling, Simulation and Economic Aspects
  - Operations Research
  - Journal of Stochastic Analysis
  - Stochastic Programming Electronic Publication Series
  - Statistics and Risk Modeling
- Member of Editorial Board
- Financial Mathematics and Applications
- Guest editor
- Cejor special volume "Modelling and management of commodities and financial markets"
- Benedikt M. Pötscher
- Co-Editor of
- Econometric Theory
- Associate Editor of
- Journal of Statistical Planning and Inference

## Refereeing

- Immanuel Bomze
- Linear and Multilinear Algebra
  - Numerical Algorithms
  - Journal of Global Optimization
  - Optimization Letters
  - Journal of Optimization Theory and Applications
  - Mathematics of Operations Research

- Martin Glanzer
- Central Optimization: a journal of mathematical programming and operations research
- Walter J. Gutjahr
- Annals of Operations Research (1)
  - Central European J. of Operations Research (1)
  - European J. of Operational Research (1)
  - IEEE Trans. on Systems, Man and Cybernetics (1)
  - IISE Transactions (1)
  - International J. of Disaster Risk Reduction (1)
  - International J. of Logistics (1)
  - International Transactions in Operations Research (1)
  - International Journal of Production Research (1)
  - J. of Humanitarian Logistics and Supply Chain Management (1)
  - OR Spectrum (2)
  - Production and Operations Management (2)
  - Transportation Research Part B (1)
  - Transportation Research Part E (2)
- Nikolaus Hautsch
- Econometrica
  - Journal of Applied Econometrics (2)
  - Annals of Statistics
  - Journal of Econometrics (2)
  - DFG
- Reviewer for Workshops
- 5<sup>th</sup> Annual conference of the International Association of Applied Econometrics (Montreal, Canada)
  - Finance Down Under Conference (Melbourne, Australia)
  - 11<sup>th</sup> Annual Society for Financial Econometrics (SoFIE) (Lugano, Switzerland)
- Irene Klein
- Finance & Stochastics (1)
  - Mathematics and Financial Economics (1)
  - Stochastic processes and their applications (1)
- Markus Leitner
- Computers and Operations Research
  - INFORMS Journal on Computing
  - Networks
  - SIAM Journal on Optimization
  - Transportation Research Part B: Methodological
  - Transportation Science
- Benedikt M. Pötscher
- Econometric Theory
  - Quantitative Economics
- Mario Ruthmair
- Transportation Research Part B: Methodological
  - EURO Journal on Transportation and Logistics
  - Discrete Optimization

Reviewer for Conferences

- 20th Conference on Integer Programming and Combinatorial Optimization
  - ICCL2018 - 9th International Conference on Computational Logistics
- Teresa Scarinci
  - ESAIM-COCV
  - AMS-American Mathematical Society
- Werner Schachinger
  - Mathematical Programming

## Other Professional Activities

- Immanuel Bomze
  - Deputy Director of Studies Program Statistics, University of Vienna, Austria (1.10.2018– 31.12.2018)
  - Director of Studies PhD Program, University of Vienna, Austria (1.1.2018-30.09.2018)
  - Organizer of the Vienna Graduate School on Computational Optimization 17.12.-19.12.2018
  - EURO President Elect
- Walter J. Gutjahr
  - Program Committee Member EvoCOP 2018
  - Panel Chair at Workshop on Optimization, Game Theory, and Data Analysis, Vienna Austria
- Nikolaus Hautsch
  - Dean of the Faculty
  - Interim Head of Department of Business Administration
  - Scientific Advisory Board Forschungsdateninfrastruktur für Finanzdaten, SAFE Frankfurt
  - Deputy Head of Research Platform „Data Science @ Uni Vienna“
- Irene Klein
  - Co-Organizer Freiburg-Vienna-Zurich-Workshop, Strobl, Austria 01.-07-04.07.2018
  - Co-Organizer Freiburg-Vienna-Zurich-Seminar, Vienna, Austria, 03.10.-05.10.2018
  - Co-Organizer Workshop on Optimization, Game Theory and Data Analysis, Vienna, Austria, 20.12.-21.12.2018
- Hannes Leeb
  - Co-organizer of Workshop “Model Selection, Regularization and Inference”
- Markus Leitner
  - Co-Organizer Workshop on Optimization, Game Theory and Data Analysis, Vienna, Austria, 20.12.-21.12.2018
- Georg Pflug
  - Speaker of the Vienna Graduate School on Computational Optimization
  - Director of Studies PhD Program, University of Vienna, Austria
  - Member FWF-Kuratorium (Applied Mathematics)
  - Scientific Advisory Board Member at IMPA - Instituto Nacional de Matemática Pura e Aplicada, Brasil

- Co-organizer of the Oberwolfach conference “New directions in stochastic optimization” 19.08.-24.08.2018
  - Organizer of the Vienna Graduate School on Computational Optimization 17.12.-19.12.2018
  - Member of the panel for a transregio research theme of the German Forschungsgemeinschaft DFG
  - External reviewer of a PHD Thesis for Islamabad U, Pakistan
  - External member of a PHD committee in HEC, Montreal, Canada
  - Member of a Habilitation Committee in Paris, France
  - External reviewer of a habilitation thesis at the University of Singapore
  - Member of a Habilitation Committee at the University of St. Gallen, Switzerland
- Benedikt M. Pötscher
- Co-organizer of Workshop “Model Selection, Regularization and Inference”
  - Head of Department: Statistics and Operations Research
- Erhard Reschenhofer
- Vice Directorate of Studies Program Statistics (University of Vienna)
  - Deputy Head of Department: Statistics and Operations Research
- Mario Ruthmair
- Co-organizer of the Workshop on Optimization, Game Theory, and Data Analysis, Vienna, Austria, 20.12.-21.12.2018
- Werner Schachinger
- Co-organizer of the Workshop on Optimization, Game Theory, and Data Analysis, Vienna, Austria, 20.12.-21.12.2018