PRESENTATIONS GIVEN BY R. T. ROCKAFELLAR

(some talk titles and events are missing from early records)

- Sep 2023: “Generalized Nash Equilibrium From a Variational Analysis Perspective,” Conference on Variational Analysis and Optimization, Messina, Italy (virtual)
- Aug 2023: “Progressive Decoupling and the Proximal Method of Multipliers,” Hong Kong Polytechnic University
- Jun 2023: “Variational Convexity and Local Duality in Nonconvex Optimization,” International Conference on Nonsmooth and Variational Analysis, Dijon, France
- Apr 2023: “Problem Decomposition in Convex Optimization: Advances beyond ADMM,” CMM, University of Chile, Santiago
- Jan 2023: “The Dynamics of Economic Equilibrium,” Workshop on Optimization, Learning and Games, Viña del Mar, Chile
- Nov 2022: “Optimization and Economic Equilibrium,” CMM, University of Chile, Santiago
- Sep 2022: “Convexity and Duality in Nonconvex Optimization,” SIAM Regional Meeting, Detroit
- Aug 2022: “Multiplier Methods and Splitting in Convex Optimization,” Workshop on Modern Variational Analysis, UW
- Aug 2022: “Robustness From the Perspective of Coherent Measures of Risk,” IFDS Conference on Machine Learning, UW


Feb 2022: “New Perspectives on Sufficient Conditions for Local Optimality,” SUSTech, Shenzhen, China (virtual).


Nov 2021: “Local Monotonicity of Subgradient Mappings,” Workshop on Optimization and Operators, the Technion, Haifa, Israel (virtual).


Oct 2020: “Augmented Lagrangians and Hidden Convexity in Sufficient Conditions for Local Optimality,” One World Optimization Seminar (virtual out of the University of Vienna, Austria).


Dec 2019: “Risk and Reliability in Optimization Under Uncertainty,” Science Faculty, SUS Tech, Shenzhen, China

Dec 2019: “A Variational Approach to Second-Order Optimality,” Hong Kong Polytechnic University

Nov 2019: “A Variational Approach to Second-Order Optimality,” CMM, University of Chile, Santiago

Nov 2019: “Progressive Decoupling of Linkages in Optimization with Elicitable Convexity,” Universidad Adolpho Ibañiz, Santiago, Chile

Nov 2019: “Risk and Robustness in Optimization Under Uncertainty,” Quantitative Finance Workshop, Stony Brook University, NY

• Sep 2019: “Progressive Hedging in Nonconvex Stochastic Programming,” BIRS conference, Oaxaca, Mexico
• Aug 2019: “Stochastic Variational Inequalities and Stochastic Decomposition,” NACA-ICOTA, Hakodate, Hokkaido, Japan
• Jul 2019: “Iterative Problem Decomposition in Nonconvex Optimization,” 13th ICFPITA, XinXiang, China
• May 2019: “Risk and Reliability in Optimization Under Uncertainty,” Lardner Award Lecture, Canadian O.R. Society, Saskatoon, Saskatchewan
• May 2019: “Managing Risk and Uncertainty in Optimization,” Central South University, Changsha, China
• Apr 2019: “Risk and Reliability in Optimization Under Uncertainty,” Spencer C. Schantz Lecture, Dept. of Industrial and Systems Engineering, Lehigh University
• Apr 2019: “Stochastic Variational Inequalities: Single-stage and Multistage,” School of Sciences, Sichuan University, Chengdu, China
• Apr 2019: “Risk and Reliability in Optimization Under Uncertainty,” School of Engineering, Sichuan University, Chengdu, China
• Apr 2019: “Variational Analysis, Variational Geometry and Optimization,” Dept. of Mathematics, Sichuan Normal University, Chengdu, China
• Mar 2019: “Problem Decomposition in Nonconvex Optimization,” SAMSI, Flatiron Institute, Manhattan
• Mar 2019: “Progressive Decoupling of Linkages in Optimization with Elicitable Convexity,” CMM, University of Chile, Santiago
• Jan 2019: “Decomposition Algorithms for Generalized Equation Problems with Elicitable Monotonicity,” Workshop on Nonsmooth and Variational Analysis, University of Vienna, Austria
• Jan 2019: “Achieving Economic Equilibrium as an Optimization Process,” CMM, University of Chile, Santiago
• Dec 2018: “Progressive Hedging in Nonconvex Stochastic Optimization,” University of Arizona, Tucson
• Nov 2018: “Progressive Hedging in Nonconvex Stochastic Optimization,” Hong Kong Polytechnic University
• Oct 2018: “Progressive Decoupling of Linkages in Optimization with Elicitable Convexity,” CERMICS, Paris
• Oct 2018: “The Role of Convex Analysis in Optimization,” CERMICS, Paris
- Oct 2018: “Local Convergence of the Proximal Point Algorithm in Optimization,” West Coast Optimization Meeting, UBCO, Kelowna, BC
- Jun 2018: “Progressive Hedging in Stochastic Optimization,” AMSI Optimise, Melbourne, Australia
- Jun 2018: “Risk and Reliability in Optimization Under Uncertainty,” AMSI Optimise, Melbourne, Australia
- May 2018: “Risk and Reliability in Optimization Under Uncertainty,” Poznan University of Technology, Poznan, Poland
- May 2018: “Variational Geometry and Optimization,” Adam Mickiewicz University, Poznan, Poland
- May 2018: “Progressive Decoupling in Convex and Nonconvex Optimization,” West Coast Optimization Meeting, Univ. of Washington, Seattle
- Apr 2018: “Risk and Failure in Optimization Under Uncertainty,” International Symposium on Stochastic Optimization with Applications, Guizhou Minzu University, Guiyang, China
- Mar 2018: “Progressive Decoupling of Linkages in Optimization with Elicitable Convexity,” Workshop on Operator Splitting Methods in Data Analysis, SAMSI, Raleigh, NC
- Feb 2018: “Progressive Decoupling of Linkages in Variational Inequalities and Optimization,” Federation University, Ballarat, Australia
- Jan 2018: “Mathematical Approaches to Risk and Uncertainty in Optimization,” CMM, University of Chile, Santiago
- Dec 2017: “Augmented Lagrangians and Problem Decomposition in Nonconvex Programming,” Hong Kong Polytechnic
• Nov 2017: “Mathematical Approaches to Risk and Uncertainty in Optimization,” CMM, University of Chile, Santiago
• Oct 2017: “Adapting the Progressive Hedging Algorithm to bPOE Minimization,” Workshop in Risk Management, Univ. of Florida, Gainesville
• May 2017: “Solving Stochastic Variational Inequalities by Progressive Hedging,” University of California, Davis
• Apr 2017: “Multistage Stochastic Optimization and Progressive Hedging,” University of Nagoya, Japan
• Apr 2017: “Risk and Uncertainty in Problems of Optimization,” University of Nagoya, Japan
• Apr 2017: “Solving Stochastic Variational Inequalities by Progressive Hedging,” Duke University, Durham, North Carolina
• Mar 2017: “Solving Stochastic Optimization Problems by Progressive Hedging with Risk Measures in the Objective,” Workshop on variational and Stochastic Analysis, University of Chile, Santiago
• Mar 2017: “Approaches to Risk and Uncertainty in Problems of Optimization,” Pontifical Catholic University, Santiago, Chile
• Mar 2017: “Risk, Optimization and Statistics,” University of Texas, Austin
• Feb 2017: “Stochastic Variational Inequalities in a Dynamical Setting,” Curtin University, Perth, Australia
• Jan 2017: “Variational Analysis of Equilibrium,” Workshop on Equilibria in Games, University of Chile, Santiago
• Dec 2016: “Solving Stochastic Variational Inequalities by Progressive Hedging,” The Polytechnic University, Hong Kong
• Dec 2016: “Decoupling of Linkages in Variational Inequality Problems with Elicitable Monotonicity,” Quy Nhơn, Vietnam
Nov 2016: “Risk-Averse Optimization in Engineering Design and Management,” Chile-Japan Forum, Punta Arenas/Puerto Natales, Chile

Oct 2016: “Progressive Decoupling of Linkages in Variational Inequality Problems with Elicitable Monotonicity,” Banach Center, Warsaw, Poland

Oct 2016: “Stochastic Variational Inequalities in a Dynamical Framework,” West Coast Optimization Meeting, UBC, Vancouver


Jun 2016: “Stochastic Variational Inequalities in a Dynamical Framework,” IMPA, Rio de Janeiro, Brazil


Jun 2016: “Stochastic Variational Inequalities and Equilibrium,” ENPC Paris-Tech, France

Apr 2016: “Risk, Optimization and Statistics,” Univ. of Colorado, Boulder

Mar 2016: “Risk, Optimization and Statistics,” Univ. Adolpho Ibañiz, Santiago, Chile

Mar 2016: “Solving Stochastic Variational Inequalities with Monotonicity by Progressive Hedging,” CMM, University of Chile, Santiago

Feb 2016: “Solving Stochastic Variational Inequalities with Monotonicity by Progressive Hedging,” South Pacific Optimization Meeting, Noumea, New Caledonia—

Jan 2016: “General Economic Equilibrium with Financial Markets and Retainability,” CMM, Univity of Chile, Santiago

Dec 2015: “Risk Modeling in Management and Engineering,” Hong Kong Polytechnical University, Hong Kong

Nov 2015: “Stochastic Variational Inequalities,” Dept. Math., King Saud University, Riyadh, Saudi Arabia

Nov 2015: “Risk, Utility and Regret in Financial Optimization,”

ptConference on Equilibrium and Optimization Methodology in Finance and Economics, King Saud University, Riyadh, Saudi Arabia

Oct 2015: “Stochastic Variational Inequalities in a Dynamical Framework,” University of Southern California

Oct 2015: “Stochastic Variational Inequalities in a Dynamical Framework,” West Coast Optimization Meeting, University of British Columbia-Okanagan, Kelowna

Oct 2015: “Applying Variational Analysis to the Stability of Economic Equilibrium,” AMS meeting, Loyola University, Chicago

Sep 2015: “Stability and Control of Economic Equilibrium,” Imperial College, London
• Jul 2015: “Risk and Reliability in Stochastic Optimization,” EURO2015, Glasgow, Scotland
• Jun 2015: “Risk, Optimization and Statistics,” Dept. of Computer Science, University of Bergen, Norway
• May 2015: “Dynamics and Control of Economic Equilibrium,” Technical University of Vienna, Austria
• May 2015: “Stochastic Variational Inequalities: Single-stage to Multistage,” University of Vienna, Austria
• Apr 2015: “Risk-Averse Optimization in Engineering Design and Management,” College of Engineering, Univ. of Florida, Gainesville
• Mar 2015: “Stochastic Variational Inequalities: Single-stage to Multistage,” CMM, University of Chile, Santiago
• Feb 2015: “Risk, Utility and Regression,” Quantitative Finance Seminar, Fields Institute, University of Toronto, Canada
• Feb 2015: “Stochastic Variational Inequalities: Single-stage to Multistage,” South Pacific Continuous Optimization Meeting, University of Adelaide, Australia
• Jan 2015: “Variational Analysis, Variational Geometry, and Optimization,” King Mongkut’s University of Technology, Bangkok, Thailand
• Dec 2014: “General Economic Equilibrium with Financial Markets and Retainability,” Workshop: Economics Meets Optimization, CMM, University of Chile, Santiago
• Oct 2014: “The Fundamental Quadrangle of Risk in Optimization and Statistics,” Fudan University, Shanghai, China
• Sep 2014: “The Fundamental Quadrangle of Risk in Optimization and Statistics,” Tokyo Institute of Technology, Tokyo, Japan
- Jun 2014: “Variational Analysis, Variational Geometry and Optimization,” University of Groningen, Netherlands
- Jun 2014: “The Fundamental Quadrangle of Risk in Optimization and Statistics,” University of Groningen, Netherlands
- Mar 2014: “Variational Methodology in Formulating and Solving Problems of Equilibrium,” King Saud University, Riyadh, Saudi Arabia
- Jan 2014: “Solving Variational Inequalities by Newton’s Method,” CMM, University of Chile, Santiago
- Jan 2014: “Risk Measures, Utility and Regret in Financial Optimization,” Workshop on Finance, Santiago, Chile
- Oct 2013: “Convexity and Duality in the Economics of Financial Equilibrium,” CMM, University of Chile, Santiago
- Jun 2013: “The Fundamental Quadrangle of Risk in Optimization and Statistical Estimation,” International Conference on Optimization and Statistics, Beijing, China
- May 2013: “Risk, Optimization and Statistics,” Univ. Göttingen, Germany
• Feb 2013: “Variational Analysis, Solution Mappings and Equilibrium,” Saigon, Vietnam
• Feb 2013: “Random Variables, Monotone Relations and Convex Analysis,” South Pacific Optimization Meeting, Univ. Newcastle, Australia
• Dec 2012: “Risk and Regret in Stochastic Optimization,” NUS, Singapore
• Dec 2012: “The Modeling of Risk in Optimization Under Uncertainty,” 5th OCA, Beijing, China
• Dec 2012: “Risk and Optimization on Financial Decision-Making,” 3-hour course, Zhengzhou, China
• Oct 2012: “Random Variables, Monotone Relations and Convex Analysis,” CMM, Santiago, Chile
• Oct 2012: “Random Variables, Monotone Relations and Convex Analysis,” Hong Kong Polytechnic University, Hong Kong
• Sep 2012: “Random Variables, Monotone Relations and Convex Analysis,” Optimization seminar, University of Paris 6, Paris, France
• Sep 2012: “Random Variables, Monotone Relations and Convex Analysis,” Nonlinear Optimization and Applications 5, Matsue City, Shimane, Japan
• Jun 2012: “Risk Modeling in Decisions Under Uncertainty,” 4 hours
• Jun 2012: “Applying Variational Analysis to Stability Issues in Economics,” St. Petersburg, Russia
• ptBanking Institute, Higher School of Economics,” Moscow, Russia
• Jan 2012: “Applications of Variational Analysis to the Stability and Control of Economic Equilibrium,” Technion, Haifa, Israel
• Dec 2011: “Convex Analysis in Optimization and Economics,” Dept. of Economics, Chiang Mai, Thailand
• Nov 2011: “Optimization, Risk and Statistics,” Dept. of Agricultural Sciences, University of Florida, Gainesville
• Nov 2011: “Stability of Economic Equilibrium,” CMM, University of Chile, Santiago
• Oct 2011: “Stability of Economic Equilibrium,” Technical University, Vienna, Austria
• Oct 2011: “The Quadrangle of Risk in Optimization and Statistics,” University of Vienna, Austria
• Oct 2011: “Convexity, Duality and Risk,” 15 hour course, University of Vienna, Austria
• Sep 2011: “The Fundamental Quadrangle of Risk in Optimization and Statistical Estimation,” WCOM, UBC-Okanagan, Canada
• Jun 2011: “Optimization and Statistics,” Yunnan University, Kunming, China
• May 2011: “Variational Analysis and Economic Equilibrium,” Simon Fraser University, Vancouver, British Columbia, Canada
• Apr 2011: “Parametric Stability of Solutions to Problems of Equilibrium,” University of Illinois, Champaign-Urbana
• Apr 2011: “Optimization and Statistics,” University of Illinois, Champaign-Urbana
• Mar 2011: “Coherent Approaches to Risk and Reliability in Optimal Design,” CMM, University of Chile, Santiago
• Feb 2011: “Monotonicity and Fixed Points in Variational Inequalities,” Chiang Mai University, Thailand
• Feb 2011: “Convex Analysis in Optimization and Economics,” Chiang Mai University, Thailand
• Jan 2011: “Risk and Utility in Financial Optimization and Equilibrium,” Institute of Mathematical Sciences, Singapore
• Jan 2011: “Optimization and Statistics,” Risk Management Institute, Singapore
• Jan 2011: “Extended Nonlinear Programming as a Vehicle for Sensitivity Analysis and Nonsmoothness,” Business School, National University of Singapore
• Jan 2011: “Approaches to Risk in Optimization Under Uncertainty,” Business School, National University of Singapore
• Dec 2010: “Optimization and Statistics,” Curitiba, Brazil
• Sep 2010: “Implicit Functions and Solution Mappings in Variational Analysis,” Nonlinear Analysis and Optimization, Phuket, Thailand
• Jul 2010: “Recent Developments Connecting Statistics and Stochastic Optimization,” Dept. of Applied Math., Heidelberg University, Heidelberg, Germany
• Jul 2010: “Risk Modeling in Optimization Under Uncertainty,” SOCCER, Heidelberg University, Heidelberg, Germany
• Jun 2010: “Coherent Modeling of Risk in Optimization Under Uncertainty,” St. Petersburg State University, Russia
• Jun 2010: “The Fundamental Quadrangle of Risk,” Izmir Economics University, Izmir, Turkey
May 2010: “Large-Scale Models of Economic Equilibrium,” Fudan University, Shanghai, China


Feb 2010: “Risk and Duality in Optimization Under Uncertainty,” series of three lectures, Newcastle, Australia

Jan 2010: “Risk and Uncertainty in Optimization” and “On Buffered Failure Probability in Design and Optimization of Structures,” Chiang Mai University, Thailand

Jan 2010: “Risk, Convex and Nonlinear Analysis,” 3-lecture course, Dept. of Math., Phitsanulok, Thailand

Jan 2010: “Composite Modeling Formats in Optimization,” Optimization Seminar, University of Washington, Seattle

Nov 2009: “Approaches to Risk in Optimization Under Uncertainty,” Kyoto University, Kyoto, Japan


Nov 2009: “Convex Analysis in Optimization and Economics,” series of five lectures, Keio University, Tokyo


Sep 2009: “Stability in Models of Economic Equilibrium,” 12th Workshop on Well-Posedness in Optimization and Related Topics, Levico Terme, Italy

Sep 2009: “Sensitivity Applications of Attouch’s Theorem on Subdifferential Convergence,” Conference on Variational Analysis and Optimization, Montpellier, France

Jul 2009: “Approaches to Risk in Optimization Under Uncertainty,” Workshop on Continuous Optimization, Mambucaba, Brazil

Jun 2009: “Second-Order Convex Analysis and Beyond,” Rome, Italy

May 2009: “Approaches to Risk in Optimization Under Uncertainty,” Institute of Industrial Engineering, annual meeting, Miami, Florida

May 2009: “Convex Analysis in the Theory of Risk,” Erice-Sicily, Italy


Jan 2009: “Risk and Uncertainty in Optimization,” 6-hour lecture series, Humboldt University, Berlin, Germany

Dec 2008: “Coherent Approaches to Risk in Optimization Under Uncertainty,” Univ. of Alberta, Edmonton, Canada
Nov 2008: “Variational Inequality Models in Multi-Agent Optimization,” CMM, Santiago, Chile
Sep 2008: “Hamiltonian Trajectories in Mathematical Economics.” Conference on Optimal Control, Bedlewo, Poland
Sep 2008: “Convex Analysis and Optimal Control in Macroeconomics,” WCOM, Kelowna, British Columbia, Canada
Jul 2008: “Approaches to Risk in Optimization Under Uncertainty,” Workshop on Long-Term Economic Risk, Univ. of British Columbia, Vancouver, Canada
Apr 2008: “Multi-Agent Optimization With Uncertainty,” Conference on Optimization, Beijing, China
Mar 2008: “Approaches to Risk in Optimization Under Uncertainty,” Simon Fraser University, Vancouver, Canada
Mar 2008: “Approaches to Risk in Optimization Under Uncertainty,” Conference on Risk, Santa Fe, New Mexico
Dec 2007: “Implicit Functions and Solution Mappings in Variational Analysis”, CMM, Santiago, Chile
Oct 2007: “Risk Tuning With Generalized Linear Regression,” Univ. of Florida, Gainesville
Sep 2007: “Risk Tuning With Generalized Linear Regression,” International Workshop on Models of Credit and Operational Risks in the Financial Sector, Univ. of Bolzano, Italy
• Sep 2007: “Implicit Functions and Solution Mappings in Variational Analysis,” Univ. of Alicante, Spain
• Jul 2007: “Safeguarding in Optimization Under Uncertainty,” Medellin, Colombia
• May 2007: “Risk Tuning With Generalized Linear Regression,” Polytechnical University, Hongkong
• May 2007: “Approaches to Risk in Optimization Under Uncertainty,” City University, Hongkong
• Apr 2007: “Risk Tuning With Generalized Linear Regression,” West Coast Optimization Meeting, Univ. of Washington, Seattle
• Apr 2007: “Risk Tuning With Generalized Linear Regression,” CMM, Santiago, Chile
• Mar 2007: “Risk Tuning With Generalized Linear Regression,” Stevens Institute of Technology, Hoboken, New Jersey
• Nov 2006: “Robinson’s Implicit Function Theorem and its Extensions,” Optimization Days, University of Ballarat, Australia
• Nov 2006: “Network Models in Optimization,” Univ. of Florida, Gainesville
• Oct 2006: “Approaches to Risk in Optimization Under Uncertainty,” Acadia University, Wolfville, Nova Scotia, Canada
• Jul 2006: “Safeguarding Against Risk in Optimization Under Uncertainty,” Univ. of British Columbia, Vancouver, Canada
• Jul 2006: “Convex Value Functions in Hamilton-Jacobi Theory,” Erice-Sicily, Italy
• May 2006: “Optimization and Economic Equilibrium,” International Conference on Nonlinear Programming with Applications, Shanghai, China
• May 2006: “Tilt perturbations of a local minimizer or stationary point,” Optimization Seminar, Univ. of Washington, Seattle
• Apr 2006: “Generalized Second-Derivatives of Convex and Nonconvex Functions,” Spring School, Paseky, Czech Republic
• Apr 2006: “Optimization and Economic Equilibrium,” Workshop on Mathematics of Optimization and Decision, Guadeloupe
• Jan 2006: “Safeguarding in Optimization Under Uncertainty,” Georgia Institute of Technology, Atlanta
• Nov 2005: “Safeguarding in Optimization Under Uncertainty,” Canada-Chile Meeting on Mathematics of Economic Geography and Natural Resource Management, Banff, Alberta, Canada
• Jun 2005: “Safeguarding in Optimization Under Uncertainty,” Workshop on Optimization in Finance, Univ. of Coimbra, Portugal
• May 2005: “Safeguarding in Optimization Under Uncertainty,” International Conference on Control and Optimization, Baku, Azerbaijan
• May 2005: “Robustness of Solutions in Nonlinear Programming,” Conference in Honor of Boris Polyak, Moscow, Russia
• Apr 2005: “Game Modeling of Competitive Equilibrium,” Optimization Seminar, Univ. of Washington, Seattle
• Mar 2005: “Variational Analysis and Economic Equilibrium,” University of Naples, Italy
• Dec 04: “Risk Measures and Safeguarding in Stochastic Optimization,” ICOTA, Ballarat, Australia
• Nov 2004: “Sensitivity of Optimal Values in Linear and Convex Optimization,” University of Florida, Gainesville
• May 2004: “Set-Valued Mappings and Their Role in Optimization,” National Center for Theoretical Science (South), Taiwan
• May 2004: “Variational Inequalities and Economic Equilibrium,” International Conference on Analysis and its Applications, Changhua, Taiwan

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• Apr 2004: “Optimization in a Risky Environment,” West Coast Optimization Meeting, Univ. of Washington, Seattle
• Mar 2004: “Portfolio Optimization with Generalized Deviations,” University of Vienna, Austria
• Mar 2004: “Optimization in the Face of Risks,” University of Florida, Gainesville
• Feb 2004: “Chance Constraints in Optimization Under Uncertainty,” Optimization Seminar, Univ. of Washington, Seattle
• Sep 2003: “Regularity and Conditioning in Variational Analysis,” Conference on Well-Posedness, Luminy, France
• Jun 2003: “Metric Regularity and its Role in Variational Analysis,” IMPA, Rio de Janeiro, Brazil
• Jun 2003: “Optimization Pitfalls in Portfolio Analysis in Finance,” Optimization Seminar, Univ. of Washington
• Apr 2003: “Feedback and Cost-to-Go in Control Problems of Convex Type,” conference on control, Louisiana State University, Baton Rouge
• Feb 2003: “Approaches to Risk in Optimization Under Uncertainty,” University of South Australia, Adelaide
• Jan 2003: “Maximal Monotonicity and the Subgradients of Convex Functions,” Optimization Seminar, Univ. of Washington, Seattle
• Dec 2002: “Risk Measures in Stochastic Optimization,” Univ. of Arizona, Tucson
Nov 2002: “Variational Geometry and Optimization” and “Robustness in Second-Order Optimality,” National Univ. of Singapore

Nov 2002: “The Radius of Metric Regularity,” workshop in Ballarat, Victoria, Australia

Nov 2002: “Measures of Risk: Convex Analysis in Action,” West Coast Optimization Meeting, Univ. of Washington, Seattle


Sep 2002: “Measures of Risk: Convex Analysis in Action,” Midwest Optimization Seminar, Univ. of Michigan, Ann Arbor

Jun 2002: “Duality in Variational Problems and Hamilton-Jacobi Theory” AMS-UMI meeting, Pisa, Italy


Jun 2002: “Set-Valued Mappings and their Role in Optimization,” IMPA, Rio de Janeiro, Brazil


May 2002: “Convex Analysis in Optimization,” Chalmers Univ., Gothenburg, Sweden (a course of eight 45-minute lectures in two days)

Apr 2002: “An Overview of Optimization and its Uses” and “Applications of Optimization in Information Technology,” Microsoft Research Asia, Beijing, China


Feb 2002: “Feedback and Cost-to-Go in Control Problems of Convex Type” and “Dualizing Kernels and Hamilton-Jacobi Theory in Feedback Representations,” Center for Control Engineering and Computation, Univ. of California, Santa Barbara


Feb 2002: “Feedback and Cost-to-Go in Control Problems of Convex Type,” Optimization Seminar, Univ. of Washington, Seattle


Dec 2001: “Optimization with extended nonlinear programming,” ICOTA meeting, Hong Kong

Dec 2001: “Conditional Valute-at-Risk as an Alternative to Value-at-Risk,” GARP talk at Microsoft

Nov 2001: “Optimization modeling with equilibrium constraints,” West Coast Optimization Meeting, Seattle
• Sep 2001: “The radius of metric regularity,” 7th European Workshop on Well-Posedness in Optimization and Related Topics, Warsaw, Poland
• Aug 2001: “Solution perturbations and duality in convex optimization,” Second International Conf. on Nonlinear Analysis and Convex Analysis, Hirosaki, Japan
• Jul 2001: “Dynamic splitting in discrete-time optimal control,” SIAM Conf. on Control, San Diego, California
• Jul 2001: “Cost-to-go and feedback in optimal control,” SIAM Conf. on Control, San Diego, California
• Jul 2001: “Simulation, scenarios and uncertainty in optimization,” International Conf. on Optimization and Industry, Queensland, Australia
• May 2001: “Variational analysis and equilibrium,” West Coast Optimization Meeting, Vancouver, Canada
• Apr 2001: “Variational analysis and equilibrium,” Univ. of Chile, Santiago
• Mar 2001: “Variational analysis and equilibrium,” Conference on Approximation and Optimization, Guatemala City
• Feb 2001: “Taxes and transaction costs in cash stream valuation,” Univ. of Florida, Gainesville
• Jan 2001: “Generalized Lagrange multipliers in optimization,” Polytechnical Univ., Hong Kong
• Jan 2001: “Optimization: why it is different,” International Symposium on Teaching Applications in Engineering Mathematics, Hong Kong
• Jan 2001: “Variational geometry and equilibrium,” Optimization Seminar, Univ. of Washington, Seattle
• Dec 2000: “Conditional value-at-risk in stochastic optimization,” Univ. of Chile, Santiago
• Nov 2000: “Convex analysis in the calculus of variations,” Optimization Seminar, Univ. of Washington, Seattle
• Oct 2000: “Linear programming in the valuation of cash streams,” Optimization Seminar, Univ. of Washington, Seattle
• Sep 2000: “Duality in Hamilton-Jacobi Theory,” French-German-Italian Conf. on Optimization 2000, Montpellier, France
• Jun 2000: “Variational Inequalities with Ample Parameterization,” Erice-Sicily, Italy
• Jun 2000: “Convex Analysis in the Calculus of Variations,” Conf. on Convexity and Global Optimization, Samos, Greece
• May 2000: “Ample Parameterization of Variational Inclusions,” Optimization Seminar, Univ. of Washington, Seattle
• May 2000: “Variational Analysis and Optimization,” Univ. of Alicante, Spain
• Apr 2000: “Integral Functionals and Subgradients,” four-lecture series at the Spring School on Functional Analysis, Paseky, Czech Republic
• Mar 2000: “——,” Dept. of Engineering Math., Univ. of Chile, Santiago
• Feb 2000: “——,” Conference on Stochastic Optimization, Univ. of Florida, Gainesville
• Jan 2000: “Variational Analysis and Optimization” International Conference on Nonlinear Analysis, Kaohsiung, Taiwan
• Dec 1999: “——,” Dept. of Engineering Math., Univ. of Chile, Santiago
• Nov 1999: “Risk Measures in Optimization,” Chalmers Univ., Gothenburg, Sweden
• Sep 1999: “Primal-Dual Solution Perturbations in Convex Optimization,” Workshop on Well-Posed Problems, Gagnarno, Italy
• Jul 1999: “Extended Nonlinear Programming,” Optimization Days at Univ. of Ballarat, Victoria, Australia
• Jun 1999: “Forward-Backward Splitting Algorithms in Optimization,” IMPA, Rio de Janeiro, Brazil
• May 1999: “Stochastic Programming,” ten-hour course, Chalmers Institute of Technology, Gothenburg, Sweden
• May 1999: “The Hamilton-Jacobi Equation and Variational Analysis,” PDE Seminar, Univ. of Washington, Seattle
• Apr 1999: “Second Derivatives of Convex Functions,” Optimization Seminar, Univ. of Washington, Seattle
• Mar 1999: “——,” IIASA, Vienna, Austria
• Feb 1999: “Envelope Representations of Value Functions in Hamilton-Jacobi Theory,” Workshop on Variational Analysis, University of California, Davis
• Feb 1999: “Primal-Dual Solution Perturbations in Convex Optimization,” Optimization Seminar, Univ. of Washington, Seattle
• Jan 1999: “Composite Modeling in Optimization,” Center for Applied Optimization, University of Florida, Gainesville
• Jan 1999: “Extended Nonlinear Programming,” Optimization Seminar, Univ. of Washington, Seattle
• Dec 1998: “Set-Valued Solution Mappings,” International Conference on Nonlinear Programming and Variational Inequalities, City University of Hong Kong
• Dec 1998: “Optimization and its Applications”), honoris causa lecture, University of Chile, Santiago
• Oct 1998: “Optimality and Robustness in Extended Nonlinear Programming” and “Graphical Approximation of Solution Mappings,” INFORMS meeting, Seattle
• Sep 1998: “Regularization in a Primal-Dual Framework,” Workshop on Ill-Posed Variational Problems and Regularization Techniques, Trier, Germany
• Sep 1998: “Robustness in Optimality,” Belgian-French-German Conference on Optimization, Namur, Belgium
• Jul 1998: “Uncertainty in Dynamical Systems,” IIASA, Vienna, Austria
• Jun 1998: “Optimality and Robustness in Extended Nonlinear Programming,” Erice-Sicily, Italy
• Jul 1998: “Price and Optimality in Dynamical Systems over Continuous Time,” IIASA, Vienna
• May 1998: “Convexity and Duality in Hamilton-Jacobi theory,” University of Lund, Sweden
• May 1998: “Modeling Issues in Optimization,” University of Östersund, Sweden
• Mar 1998: “Convexity and Duality in Hamilton-Jacobi theory,” Conference on Calculus of Variations and Related Topics, Haifa, Israel
• Feb 1998: “Convexity and Duality in Hamilton-Jacobi Theory,” Workshop on Variational Analysis, University of California, Davis
• Jan 1998: “Subgradients of cost-to-go functions in optimal control,” Weierstrass Institute, Berlin
• Jan 1998: “The Hidden Lipschitz Properties of Subgradient Mappings,” colloquium at Humboldt University, Berlin
• Jan 1998: “Metric Regularity and Error Estimates From Polyhedral Convexity,” Optimization Seminar, Univ. of Washington, Seattle
• Dec 1997: “——,” Dept. of Engineering Math., Univ. of Chile, Santiago
• Nov 1997: “Envelope Representations of Value Functions in Optimal Control Problems with Convexity,” West Coast Optimization Meeting, Seattle
• Oct 1997: “Graphical Derivatives andCoderivatives in the Variational Analysis of Solution Mappings,” International Conference on Parametric Optimization and Related Topics, Science University of Tokyo, Japan
• Sep 1997: “Variational Geometry and Optimization,” Subgradients and Subderivatives, and “Lipschitz Properties of Functions and Set-Valued Mappings,” Tokyo Institute of Technology, Tokyo, Japan
• Jul 1997: “Composite modeling in optimization,” IFIP Conference on Modeling and Optimization, Detroit, Michigan
• Jun 1997: “Second-order Nonsmooth Analysis,” Applied Analysis Days, Univ. of Limoges, France
• Jun 1997: “Coderivatives of Subgradient Mappings,” Conference on Convex Functional Analysis, Univ. of Toulouse, France
• Jun 1997: “Hamilton-Jacobi Equations with Convexity,” two lectures, Dept. of Math., Univ. of Pau, France
• May 1997: “Envelope Representations of Value Functions in Optimal Control, Optimization Seminar, Univ. of Washington, Seattle
• Apr 1997: “Variational Analysis and Optimization,” Fulkerson Lecture, plus “Taxes and Nonlinearity in Cash Stream Valuation” and “Convergence Rates in forward-
• Apr 1997: “Prices and Dynamics in Optimization Modeling,” Optimization Seminar, Univ. of Washington, Seattle
• Mar 1997: “Variational Geometry,” Univ. of Chile, Santiago
• Mar 1997: “Variational Geometry and Optimization,” Dept. of Statistics, Univ. of Vienna, Austria
• Feb 1997: “Prices and Dynamics in Optimization Modeling,” IIASA, Vienna, Austria
• Feb 1997: “Parabolic Derivatives and Second-Order Optimality,” Optimization Seminar, Univ. of Washington, Seattle
• Jan 1997: “Nonsmooth Analysis,” 2-week course, Federal Univ. of Paraná, Curitiba, Brazil
• Jan 1997, “Subgradients and Subderivatives” and “Lagrange Multipliers and their Generalization,” Applied Analysis Conference, Kaohsiung, Taiwan
• Jan 1997, “Convergence and its Applications,” NCKU, Tainan, Taiwan
• Jan 1997, “Convexity and Duality in Optimization,” NTHU, Hsinchu, Taiwan
• Jan 1997, “Variational Geometry and Optimization,” Academia Sinica, Taipei, Taiwan
• Dec 1996: “Numerical Optimization,” 4-lecture course, Eafit University, Medellin, Columbia
• Nov 1996: “Nonconvex Duality in Optimization,” Optimization Seminar, Univ. of Washington, Seattle
• Jun 1996: “Valuation of Cash Streams,” Business School, Univ. of Glasgow, Scotland
• May 1996: “,” SIAM Conference on Optimization, Victoria, British Columbia, Canada
• May 1996: “Generalized Differentiability of Set-Valued Mappings in optimization,” Univ. California-Davis
• Apr 1996: “——,” Dept. of Math., the Technion, Haifa, Israel
• Apr 1996: “Scenarios and Price Decomposition in Optimization Under Uncertainty,” Univ. of Paris VI-Dauphine, Paris, France
• Mar 1996: “Nonlinearity of Valuation in the Mathematics of Finance,” Univ. of Paris VI-Dauphine, Paris, France
• Jan 1996: “Optimality Conditions in Multistage Stochastic Programming,” Winter Institute on Stochastic Optimization, Semmering, Austria

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• Oct 1995: “Convexity in Nonconvex Analysis,” Univ. of Montpellier, France
• Sep 1995: “——,” Symposium on Operations Research, Passau, Germany
• Jun 1995: “——,” International Conference on Stochastic Programming, Nahariya, Israel
• May 1995: “Generalizations of the Hamiltonian and Euler-Lagrange Equations in Variational Analysis,” Euler Institute, St. Petersburg, Russia
• May 1995: “Prox-Regular Functions in Second-order Nonsmooth Analysis,” Conference on Set-valued Calculus and Nonsmooth Analysis, Workshop on Set-valued Calculus and Nonsmooth Analysis, St. Petersburg, Russia
• Apr 1995: “Euler-Lagrange and Hamiltonian conditions in Optimal Control,” SIAM Conference on Control, St. Louis, Missouri
• Aug 1994: “Nonsmooth Optimization,” Symposium on Mathematical Programming, Univ. of Michigan, Ann Arbor
• Jun 1994: “Primal-Dual Decomposition Methods Based on Generalized Lagrangian Representations,” Workshop on Decomposition and Parallel Computing Techniques for Large-Scale Systems, IIASA, Vienna, Austria
• May 1994: “Nonsmooth Analysis and Optimization,” Dept. of Math., Univ. of Malaysia, Kuala Lumpur, Malaysia
• May 1994: “Scenarios and Recourse in Optimization Under Uncertainty,” Faculty of Business Administration, National University of Singapore
• Mar 1994: “Lagrange Multipliers and Optimality,” Institute of Research in Applied Mathematics and Systems, National University of Mexico, Mexico City
• Jan 1994: “Cost-to-go in Multistage Stochastic Programming,” Minisymposium on Stochastic Programming, Humboldt Univ., Berlin, Germany

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Sep 1993: “——,” Linköping Institute of Technology, Linköping, Sweden

Sep 1993: “——,” Dept. of Mathematics, Optimization and Systems Theory, Royal Institute of Technology, Stockholm, Sweden


Mar 1993: “Nonsmooth Calculus,” Conference on Convex and Nonsmooth Analysis, the Technion, Haifa, Israel

Jan 1993: “Generalized Hamiltonian Dynamics and Optimization” and “Convexity in Hamilton-Jacobi Theory,” Dept. of Math., Univ. of Cape Town, South Africa

Jan 1993: “Hamiltonian Equations and Nonsmoothness in Optimal Control,” Institute for Mathematics and its Applications, Univ. of Minnesota, Minneapolis

Oct 1992: “Generalized Differentiation Through Set Convergence,” Dept. of Math., Univ. of Montreal, Quebec, Canada


Sep 1992: “Generalized Differentiation Through Set Convergence, École Polytechnique, Montreal, Canada

Sep 1992: “The Hamilton-Jacobi Equation in Convex Optimal Control,” SIAM CONFERENCE ON CONTROL AND ITS APPLICATIONS, Minneapolis, Minnesota

Aug 1992: “Extended Linear-Quadratic Programming: Deterministic and Stochastic,” four-lecture course, Workshop on Optimization, Univ. of Chile, Santiago


Aug 1992: “Extended Linear-Quadratic Programming: Deterministic and Stochastic,” Workshop on Optimization, Univ. of Chile, Santiago


Jun 1992: “Proto-differentiability of Subgradient Mappings,” Conference on Convergences in Multivalued and Unilateral Analysis, CIRM, Marseille-Luminy, France

Jun 1992: “Generalized Second Derivatives of Nonsmooth Functions,” Univ. of Paris VI-Dauphine, France

May 1992: “Generalized Derivatives of Set-Valued Mappings,” Conference on Variational Analysis and Related Topics, Univ. of California-Davis

Apr 1992: “——,” IIASA, Vienna, Austria

Apr 1992: “Neoclassical Conditions for Optimality in Variational Problems and Control,” Univ. of Alberta, Edmonton, Canada


Dec 1991: “Recent Problems in Nonsmooth Analysis,” Dept. of Math., Univ. of Delhi, India

Dec 1991: “Subgradients and Variational Analysis,” Conference of the Indian Mathematical Society, Aligarh Muslim University, India

Oct 1991: “Stochastic Networks in Optimization,” West Coast Optimization Meeting, Vancouver, Canada


Jun 1991: “Generalized Differentiation of Set-Valued Mappings, Dept. of Math., Univ. of Pisa, Italy


Jun 1991: “Prices and Valuation in Nonconvex Optimization,” 4-lecture course, Summer school in Economic Theory, Jerusalem, Israel

May 1991: “Differentiation of Set-Valued Mappings,” Canadian Math. Soc. Summer Meeting, Université de Sherbrooke, Quebec, Canada

Mar 1991: “Variational Analysis and Control” and “Monotone Operators,” Dept. of Math., Univ. of Cape Town, South Africa


Feb 1991: “——,” Dept. of Math., Univ. of New South Wales, Australia
• Nov 1990: “Generalized Differentiation of Set-Valued Mappings,” Dept. of Math., Univ. of British Columbia, Canada
• Jul 1990: “——,” Conference on Optimization and Optimal Control, Sydney, Australia
• Jul 1990: “Monotone Mappings in Numerical Optimisation and the Solution of Variational Inequalities,” Dept. of Applied Math., Univ. of New South Wales, Australia
• Apr 1990: “——,” IIASA, Vienna, Austria
• Mar 1990: “——,” IIASA, Vienna, Austria
• Mar 1990: “Nonsmooth Analysis and Parametric Optimization,” Binational Workshop on Optimization and Nonlinear Analysis, Technion City, Haifa, Israel
• Feb 1990: “Variational Problems and Duality,” lecture course Dept. of Applied Math., Univ. of Cape Town, South Africa
• Jan 1990: “Extended Linear-Quadratic Modeling in Dynamical Optimization,” College of Engineering Control Seminar, Univ. of Michigan, Ann Arbor
• Jan 1990: “Networks and Duality in Optimization,” plus a 3-lecture course on “Variational Analysis,” Dept. of Math., Wayne State University, Detroit, Michigan
• Jan 1990: “——,” Dept. of Industrial Engrg. and Management Science, Northwestern University, Evanston, Illinois
• Jan 1990: “——,” Dept. of Finance, Univ. of Illinois-Chicago
• Dec 1989: “Optimality Conditions,” Workshop on the Mathematics of Operations Research, Maastricht, the Netherlands
• Jul 1989: “Calculus for Set-Valued Mappings,” Dept. of Math., Univ. of British Columbia, Vancouver, Canada
• Jun 1989: “Perturbations of Solutions to Variational Problems,” four-lecture course, Summer School on Nonconvex Methods in Variational Problems, Varenna, Italy
• Jun 1989: “——,” IIASA, Vienna, Austria
• May 1989: “Numerical Approaches to Optimal Control” and “Nonsmooth Analysis in Optimal Control,” SIAM Meeting on Control, San Francisco, California
• Apr 1989: “Duality in Optimal Control” and “Recent Developments in Nonsmooth Analysis,” Dept. of Math., Univ. of Alberta, Edmonton, Canada
• Mar 1989: “——,” IIASA, Vienna, Austria
• Mar 1989: “Perturbation Analysis in Optimization” and “Large-Scale Quadratic Programming,” Laboratory for Decision Systems, Massachusetts Institute of Technology, Boston
Mar 1989: “——,” T.J. Watson; Research Center (IBM), Yorktown Heights, New York
Mar 1989: “Nonsmooth Analysis,” Dept. of Math., Univ. of Calgary, Alberta, Canada
Feb 1989: “Hamiltonian Systems in Optimal Control,” Mathematics Research Center, Univ. of Montreal, Quebec, Canada
Dec 1988: “Current Developments in Optimization,” four lectures, Dept. of Math., Univ. of Puerto Rico, San Juan
Oct 1988: “——,” French-German Symposium on Mathematical Programming, Limoges, France
Aug 1988: “——,” Workshop on Multivalued Calculus, IIASA, Vienna, Austria
Jun 1988: “——,” Summer School on Nonsmooth Analysis, Erice-Sicily, Italy
Mar 1988: “——,” IIASA, Vienna, Austria
Mar 1988: “——,” Dept. of Math., Univ. of British Columbia, Vancouver, Canada
Feb 1988: “——,” Univ. of Cape Town, South Africa
Feb 1988: “——,” Univ. of Pretoria, South Africa
Nov 1987: “——,” Princeton University
Jun 1987: “——,” Symposium on Operations Research, Univ. of Passau, Germany
Jun 1987: “——,” Conference on Nonsmooth Analysis, Univ. of Perpignan, France
Jun 1987: “——,” Conference on Applied Nonlinear Analysis, Univ. of Clairemout-Ferrand, France
Mar 1987: “——,” IIASA, Vienna, Austria
Feb 1987: “——,” Dept. of Finance, Arizona State Univ., Phoenix
Dec 1986: “——,” IEEE Conference on Control, Athens, Greece
Dec 1986: “——,” School of Aeronautical Engineering, Madrid, Spain
Sep 1986: “——,” International Conference on Stochastic Programming, Prague, Czechoslovakia
Sep 1986: “——,” IIASA, Vienna, Austria
Aug 1986: “——,” Operations Research Conference, University of Chile, Santiago
• Jun 1986: “——,” Conference on Numerical Optimization, Xi’an, China
• Jun 1986: “——,” six lectures, Tsing-hua University, Beijing, China
• Apr 1986: “——,” NSF Regional Conference, Atlanta, Georgia
• Mar 1986: “——,” IIASA, Vienna, Austria
• Jan 1986: “——,” two talks, Univ. of British Columbia, Vancouver, Canada
• Nov 1985: “——,” ORSA meeting, Atlanta, Georgia
• Aug 1985: “——,” International Symposium on Mathematical Programming, Massachusetts Institute of Technology
• Jun 1985: “——,” Conference on Infinite Horizon Theory, Univ. of Tromso, Norway
• May 1985: “Clarke Normal Cones to the Graph of a Subdifferential Mapping,” Conference on Optimization, Univ. of Toulouse, France
• Apr 1985: “——,” Dept. of Math., Univ. of California-Davis
• Mar 1985: “——,” IIASA, Vienna, Austria
• Dec 1984: “——,” Univ. of Paris VI-Dauphine, France
• Nov 1983: “——,” Workshop on Numerical Methods for Stochastic Optimization, Vienna
• Aug 1983: “——,” several lectures, Univ. of Linköping, Sweden
• Jun 1983: “——,” IIASA, Vienna, Austria
• Jun 1983: “——,” four lectures, International Conference on Multifunctions and Integrals, Catania, Sicily, Italy
• Jun 1983: “——,” Canadian Math. Soc. Meeting, Vancouver
• Apr 1983: “——,” Workshop on Operations Research and Systems Theory, Massachusetts Institute of Technology, Cambridge, Massachusetts
• Mar 1983: “——,” IIASA, Vienna, Austria
• Nov 1982: “——,” Optimization Seminar, Univ. of British Columbia, Vancouver, Canada
• Sep 1982: “——,” IIASA, Vienna, Austria
• Aug 1982: “——,” lecture in connection with receiving the Dantzig Prize, Symposium on Mathematical Programming, Univ. of Bonn, Germany
• Feb 1982: “Generalized Subgradients and the Interpretation of Lagrange Multipliers as Marginal Values” and “Directional Differentiability of the Optimal Value Function in Nonlinear Programming,” Dept. of Math. and Faculty of Commerce, Univ. of British Columbia, Vancouver, Canada
• Nov 1981: “On the Interchange of Subdifferentiation and Conditional Expectation for Convex Functionals,” AMS session on Convexity in Functional Analysis, Univ. of California, Santa Barbara, California
• Jun 1981: “——,” Univ. of Paris VI Dauphine, Paris, France
• Jun 1981: “Subdifferential Analysis and Optimization,” Dept. of Cybernetics and Operations Analysis, Univ. of Prague, Czechoslovakia
• May 1981: “—,” Institute for Econometrics and Operations Research, Univ. of Bonn, Germany
• May 1981: “The Role of Convexity in Nonlinear Analysis,” Technical University of Vienna, Austria
• May 1981: “Subdifferential Analysis and Optimization,” Dept. of Math., Humboldt University, Berlin, East Germany
• Apr 1981: “Monotropic Optimization: Qualitative Description,” International Congress on Mathematical Programming, Rio de Janeiro, Brazil
• Dec 1980: “Stochastic Optimization Problems of Bolza Type in Discrete Time,” Task Force Meeting on Stochastic Optimization, IIASA, Vienna, Austria
• Nov 1980: “—,” Task Force Meeting on General Equilibrium Modeling, IIASA, Vienna, Austria
• Sep 1980: “—,” meeting of the Austrian-Swiss Operations Research Society, Technical Univ. of Vienna, Austria
• Aug 1980: “Monotropic Programming: Descent Algorithms and Duality,” Symposium on Operations Research, Univ. of Cologne, Germany
• Aug 1980: “Lagrange Multipliers and Duality in Nonlinear Optimization,” lecture course, V ELAM, Mar del Plata, Argentina
• Apr 1980: “Subgradients of Value Functions in Optimization,” Dept. of Math., University of British Columbia, Vancouver, Canada
• Mar 1980: “Subgradients of Value Functions in Optimization,” Univ. of Grenoble, France
• Mar 1980: “Subgradients of Value Functions in Optimization,” Univ. of Montpellier, France
• Mar 1980: “Monotropic Programming,” Univ. of Clermont-Ferrand, France
• Mar 1980: “Existence of Optimal Arcs in Control Problems over Infinite Intervals,” Conference on Optimization and Optimal Control, Oberwolfach, Germany
• Nov 1979: “An Existence Theorem for Infinite-horizon Problems in Optimal Control,” Dept. of Economics, Univ. of Southern California, Los Angeles
• Sep 1979: “Continuous Optimization,” 6-lecture course, Symposium on Operations Research, Saarbrücken, Germany
• Aug 1979: “Separable Programming, Nonlinear Networks and Duality,” Symposium on Mathematical Programming, Montreal, Quebec, Canada
• Jun 1979: “Augmented Lagrangians and Quadratic Approximations in Nonlinear Programming,” TIMS Meeting, Honolulu, Hawaii
• May 1979: “Augmented Lagrangians and Quadratic Approximations in Nonlinear Programming,” Meeting on Mathematical Optimization, Oberwolfach, Germany
• Apr 1979: “Special Classes of Nondifferentiable Functions in Subgradient Optimization,” Institute of Applied Math. and Statistics, Univ. of British Columbia, Vancouver, Canada
• Feb 1979: “Properties of Nondifferentiable Functions in Subgradient Optimization,” Dept. of Industrial Engrg., Univ. Wisconsin, Madison
• Feb 1979: “Duality in Network Programming,” Dept. Math., Georgia Institute of Technology, Atlanta, Georgia
• Dec 1978: “Subgradients of Nondifferentiable Functions,” Conference on Nondifferentiable Optimization, IIASA, Vienna, Austria
• Dec 1978: “Subdifferential Calculus,” Dept. of Math., Univ. of Colorado, Boulder
• Nov 1978: “Duality in Network Programming,” Dept. of Math., Georgia Institute of Technology, Atlanta
• Aug 1978: Arrived to stay until Dec 1978 as Ulam Visiting Professor in the Dept. of Math., University of Colorado, Boulder
• Jun 1978: “Lagrange Multilier Method in the Solution of Variational Inequalities,” and “Monotone Operators in Optimization,” Conference on Variational Inequalities and
Complementarity Problems in Mathematical Physics and Economics, Erice-Sicily, Italy

- Apr 1978: “——,” AMS-SIAM meeting, San Francisco, California
- Feb 1978: “The Theory of Subgradients and its Applications to Problems of Optimization,” ten-lecture course, given as Aisenstadt Lecturer, University of Montreal, Quebec, Canada
- Feb 1978: “Convex Processes and Hamiltonian Dynamical Systems in Economics,” Symposium on Convex Analysis and Mathematical Economics, Univ. of Tilburg, Netherlands
- Jan 1978: “Clarke’s Tangent Cones and the Boundaries of Closed Sets in $\mathbb{R}^n$,” San Francisco State University, San Francisco
- Nov 1977: “Convex Functions, Subgradients and Duality,” 4-lecture course, Dept. of Math., Queen’s University, Kingston, Ontario, Canada
- Nov 1977: “Equilibrium and Optimality in Multicommodity Networks,” Faculty of Commerce, Univ. of British Columbia, Vancouver, Canada
- Aug 1977: “Duality in Optimal Control,” 6-lecture course, Instructional Conference on Mathematical Control Theory, Australian National University, Canberra, Australia
- Feb 1977: “Subdifferential Mappings and Monotone Operators” and “Variational Inequalities,” Dept. of Math., Univ. of Maryland, College Park, Maryland
- Jan 1977: “Monotone Operators and Clarke’s Generalized Gradients,” AMS Meeting, St. Louis, Missouri
• Mar 1976: “Monotone Operators and the Proximal Point Algorithm,” Univ. of Pavia, Italy
• Mar 1976: “Calculus of Variations and Optimal Control with Convexity,” lecture course, Univ. of Genova, Italy
• Dec 1975: “The Augmented Lagrangian Function in Nonlinear Programming,” Conference on Mathematical Programming, Univ. of British Columbia, Vancouver, Canada
• Sep 1975: “The Theory of Convex Integrals with Applications to the Calculus of Variations and Optimal Control,” 6-hour course, Dept. of Math., Free University of Brussels, Belgium
• Jul 1975: “Convex Analysis and Generalized Hamiltonian Functions in Optimal Control,” Workshop on Singular Perturbations and Control, University of Calgary, Canada
• Jun 1975: “Relatively Complete Recourse and Nonanticipativity in N-stage Stochastic Programming,” Symposium on Stochastic Systems, Univ. of Kentucky, Lexington
• Mar 1975: “Augmented Lagrangians and the Proximal Point Algorithm in Convex Programming,” Dept. of Electrical Engrg., Massachusetts Institute of Technology, Cambridge, Massachusetts
• Dec 1974: “——,” Dept. of Applied Math., Univ. of Grenoble, France
• Dec 1974: “Convex Functions and the Calculus of Variations,” Mathematics Institute, Univ. of Bonn, Germany
• Dec 1974: “Duality in Variational Problems,” Mathematics Institute, Univ. of Cologne, Germany
• Dec 1974: “Clarke Subgradients of Optimal Value Functions,” Cybernetics Institute, Kiev, USSR
• Dec 1974: “Modified Lagrange Functions and Duality in Nonconvex Programming,” Central Economic-Mathematical Institute, Moscow
• Oct 1974: “Augmented Lagrangians and a Proximal Saddlepoint Algorithm for Convex Programming,” Conference on Circuit and System Theory, Univ. of Illinois, Urbana-Champaign
• May 1974: “Fonctions Convexes et Problèmes Variationelles,” Dept. of Math., Univ. of Bordeaux, France
• May 1974: “Penalisation et Dualité en Programmation Nonlinéaire,” Dept. of Math., Univ. of Toulouse, France
• May 1974: “Penalisation et Dualité en Programmation Nonlinéaire,” Dept. of Math., Univ. of Clermont-Ferrand, France
• Apr 1974: “Convex Functions in the Calculus of Variations,” and Solving a Nonlinear Programming Problem by Way of a Dual Problem,” Univ. of Rome, Italy
• Mar 1974: “——,” Univ. of Venice, Italy
• Mar 1974: “——,” Univ. of Turin, Italy
• Mar 1974: “Les applications ‘prox’ en programmation convexe,” Institute of Mathematics, Univ. of Montpellier, France
• Mar 1974: “Penalisation et Dualité en Programmation Nonconvexe,” Univ. of Paris VI
• Feb 1974: “Penalisation et Dualité en Programmation Nonlinéaire,” University of Marseille, France
• Dec 1973: “Duality and Convexity in Stochastic Optimization,” Institute for Operations Analysis, Univ. of Aarhus, Denmark
• Dec 1973: “Convex Functions and Generalized Lagrange Multipliers,” Math. Institute, Univ. of Copenhagen, Denmark
• Nov 1973: “——,” Univ. of Paris IX, France
• Nov 1973: “Generalized Problems of Bolza in Optimal Control,” double lecture, Banach Center, Polish Academy of Sciences, Warsaw, Poland
• Sep 1973: Arrived in Grenoble, France, spend the academic year until Jun 1974 as Visiting Professor; taught a course on optimization of network flows.

Jun 1973: “Conjugate Duality,” multiday course for NSF Regional Conference, Dept. of Math. Sciences, Johns Hopkins, University, Baltimore

May 1973: “Augmented Lagrange Multiplier Functions and Duality in Nonconvex Programming,” IFIP Conference on Optimization Techniques, Rome, Italy


Oct 1972: “——,” 5th IFIP Conference on Optimization Techniques, Los Angeles, California

Mar 1972: “Convex Functions and Duality,” Math. Institute, Polish Academy of Sciences


Dec 1971: “Convex Functions and Stochastic Optimization,” Institut für Angewandte Mathematik und Informatik, University of Bonn, Germany


Sep 1971: “Existence and Duality Theorems for Convex Problems of Bolza,” Journées d’Analyse Convexe, University of Grenoble, France


May 1971: “Conjugate Convex Functions and Duality,” Texas A&M University

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• Apr 1971: “Convex Integral Functionals and Duality,” Symposium on Nonlinear Functional Analysis, University of Wisconsin–Madison
• Nov 1970: “Duality in Separable Convex Programming,” School of Commerce, Univ. of British Columbia, Vancouver
• Sep 1970: “Convex Integral Functionals,” and “Dual Extremum Problems in Banach Spaces,” IRIA, Paris
• Sep 1970: “Convex Integral Functionals in Optimization Problems,” Institute for Optimization and Systems Theory, the Royal Institute of Technology, Stockholm, Sweden
• Sep 1970: “Convex Integral Functionals,” Math. Institute, Univ. of Copenhagen, Denmark
• Sep 1970: “Weak Compactness of Level Sets of Convex Integral Functionals,” Colloquium on Functional Analysis, Univ. of Liège, Belgium
• Jun 1970: “Saddle Points and Convex Analysis,” NATO Advanced Study Institute on Differential Games and Mathematical Economics, Varenna, Italy
• May 1970: “New Applications of Duality in Convex Programming,” Mathematical Programming Symposium, the Hague, the Netherlands
• May 1970: “Some Convex Programs Whose Duals are Linearly Constrained,” Nonlinear Programming Symposium, Univ. of Wisconsin, Madison
• May 1970: “——,” SIAM regional meeting, Portland, Oregon
• Nov 1969: “Duality in Separable Convex Programming with Linear Constraints,” ORSA meeting, Miami, Florida
• Sep 1969: “Conjugate Convex Functions in Optimal Control and the Calculus of Variations,” Conference on Optimal Control and Minimal Surfaces, Tbilisi State University, Tbilisi, Georgia
• Nov 1968: “Convex Functions in Extremum Problems,” Univ. of Bonn, Germany
• Nov 1968: “——,” Dept. of Math., Univ. of Montpellier, France
Nov 1968: “——,” Dept. of Math., Univ. of Toulouse, France


Jul 1968: “——,” Air Force Institute of Technology, Dayton, Ohio

Jun 1968: “Conjugate Convex Functions in the Calculus of Variations,” SIAM annual meeting, Toronto, Canada


May 1968: “Extremum Problems Involving Flows in Networks,” seminar talk, Computer Science Colloquium, Univ. of Washington


Feb 1968: “——,” Marquette Univ., Milwaukee, Wisconsin

Feb 1968: “——,” Dept. of Math., Univ. of Wisconsin-Milwaukee


Jun 1967: “——,” Dept. of Math., Univ. of Montpellier, France


Jan 1967: “Convex Functions and Duality in Optimal Control,” Conference on the Mathematical Theory of Control, Univ. of Southern California, Los Angeles


• Mar 1966: “——,” Dept. of Math., Univ. of Chicago
• Nov 1965: “Convex Functions and Dual Extremum Problems,” Dept. of Math., Univ. of Washington, Seattle
• Aug 1965: “Monotone Processes of Convex and Concave Type,” Colloquium on Convexity, Math. Institute, Univ. of Copenhagen, Denmark
• May 1965: “Duality Theory of Convex Functions,” Dept. of Math., Univ. of Southern California, Los Angeles
• Apr 1965: “Mathematical Foundations of Quantum Mechanics,” seminar talk, Dept. of Physics, Univ. of Texas, Austin
• Jan 1965: “Minimax Theorems and Conjugate Saddle-functions,” American Math. Soc. meeting, Denver, Colorado
• Jan 1965: “——,” Dept. of Math., Univ. of Los Angeles, California
• Aug 1964: “The Subdifferentials of Convex Functions,” Scandinavian Congress of Mathematicians, Copenhagen, Denmark
• Mar 1964, “——,” Mathematics Institute, Univ. of Copenhagen, Denmark
• Aug 1963: “——,” Boeing Scientific Research Labs., Seattle
• Aug 1963: “Convex Functions and Dual Extremum Problems,” Dept. of Math., Univ. of Washington, Seattle