

Room	Salle 47 - Build A - 3rd floor - Zone 1			
Th 8:30am-10:30am 4x30 min	Performance Analysis, Organizer: Charlotte Truchet LARS KOTTHOFF, The Shapley Value and the Temporal Shapley Value for Algorithm Analysis GUILHEM SEMERJIAN, Phase transitions in random constraint satisfaction problems CHARLOTTE TRUCHET, A probabilistic study of the propagation of the AllDifferent constraint ALEXANDER TESCH, Improving Energetic Propagations for Cumulative Scheduling			

Salle 42 - Build C - 3rd floor - Zone 1				
We 8:30am-10:30am 4x30 min	Primal Algorithms for Integer Programming Problems , <i>Organizer:</i> Daniel Aloise			
	ADIL TAHIR, Integral Column Generation Algorithm for Set Partitioning Type Problems	OMAR FOUTLANE, Distributed Integral Simplex Using Decomposition for Set Partitioning Problems	ILYAS HIMMICH, A Polyhedral Study of the Shortest Path Problem with Resource Constraints	DANIEL ALOISE, A scalable algorithm for the solution of large clustering problems
Th 3:15pm-4:45pm 3x30 min	Non-Standard IP Methods , <i>Chair:</i> Ulf Friedrich			
	TRI-DUNG NGUYEN, Algebraic Geometry and Integer Programmings in Cooperative Game Theory	WOLFGANG KELLER, A hierarchy of cutting plane operators based on lineality spaces	ULF FRIEDRICH, A power series algorithm for non-negative IP	
Th 5:00pm-6:30pm 3x30 min	Cutting Planes for Special Problems , <i>Chair:</i> Eleazar Madriz			
	RUSLAN SIMANCHEV, Separation problem for 2-partition inequalities	MARKÓ HORVÁTH, Polyhedral results for position based scheduling of chains on a single machine	ELEAZAR MADRIZ, A Benders procedure for the b-complementary multiset semigroup dual program.	
Fr 3:15pm-4:45pm 3x30 min	Extended Formulations , <i>Chair:</i> Bartosz Filipecki			
	BERND PERSCHIED, An Extended Formulation for the 1-Wheels of the Stable Set Polytope	MIRIAM FRIESEN, Extended formulations for higher-order spanning tree polytopes	BARTOSZ FILIPECKI, Stronger Path-based Extended Formulation for the Steiner Tree Problem	

Room					Salle 43 - Build C - 3rd floor - Zone 1				
Mo	3:15pm-4:45pm 3x30 min	Provable guarantees for Cut Generating Functions. <i>Organizer:</i> Amitabh Basu	JOSEPH PAAT, Using the geometry of S-free sets to find mixed-integer cut-generating functions	SRIRAM SANKARANARAYANAN, Can cut generating functions be good and efficient?	AMITABH BASU, Optimal cutting planes from the group relaxations				
Mo	5:00pm-6:30pm 4x20 min	Algorithms for matching markets. <i>Organizer:</i> Amin Saberi	ARASH ASADPOUR, Concise Bidding Through Dependent Randomized Rounding	BALASUBRAMAN SIVAN, ROBUST Repeated Auctions under Heterogeneous Buyer Behavior	VAHAB MIRROKNI, Proportional Allocation: Simple, Distributed, and Diverse Matching w High Entropy	AMIN SABERI, Matching in dynamic environments			
Tu	8:30am-10:30am 4x30 min	Extended formulations. <i>Organizer:</i> Stefan Weltge	MICHELE CONFORTI, Balas formulation for the union of polytopes is optimal	TONY HUYNH, Strengthening Convex Relaxations of 0/1-Sets Using Boolean Formulas	MAKRAND SINHA, Lower Bounds for Approximating the Matching Polytope	STEFAN WELTGE, Lifting Linear Extension Complexity Bounds to the Mixed-Integer Setting			
Tu	3:15pm-4:45pm 3x30 min	MIP under Uncertainty 2. <i>Organizer:</i> Simge Kucukyavuz	MANISH BANSAL, Two-stage stochastic p-order conic mixed integer programs	WARD ROMEINDERS, Inexact cutting plane techniques for two-stage stochastic mixed-integer programs	ANDREW SCHAEFER, Solving Stochastic and Bilevel Mixed-Integer Programs via a Generalized Value F.				
We	8:30am-10:30am 4x30 min	Determinantal structures of IPs. <i>Organizer:</i> Martin Henk	STEPHAN ARTMANN, Width in congruency-constrained TU-systems.	FRIEDRICH EISENBRAND, Faster algorithms for Integer Programming using the Steinitz Lemma	CHRISTOPH GLANZER, On the number of distinct rows of a matrix with bounded sub-determinants	ROBERT WEISMANTEL, Distances between LPs, IPs and MIPs			
We	3:15pm-4:45pm 3x30 min	Network Design and Routing. <i>Chair:</i> Yuko Kuroki	YUSA MATSUDA, A 4-approximation algorithm for k-prize collecting Steiner tree problems	YUKO KUROKI, Approximation algorithm for star-star hub-and-spoke network design problems	JEREMY OMER, Time-dependent shortest path with discounted waiting				
We	5:00pm-6:30pm 2x30 min	IP-Formulations. <i>Chair:</i> Temitayo Ajayi	WOLFGANG RIEDL, The quadratic assignment problem: a comparison of two linearizations	TEMITAYO AJAYI, Assessing Parametrized Linear Programming Relaxations With Superadditive Duality					
Th	8:30am-10:30am 4x30 min	Cycles and Trees. <i>Organizer:</i> Tobias Mömke	ALANTHA NEWMAN, Coloring and Dominating Set on Digraphs with Bounded Independence Number	ANTONIOS ANTONIADIS, A PTAS for TSP with Hyperplane Neighborhoods	LÁSZLÓ KOZMA, Maximum Scatter TSP in doubling metrics	RALF KLASING, Approximability of Hub Allocation Problems			
Th	3:15pm-4:45pm 3x30 min	Polynomial Time Solvable Problems and Complete Descriptions. <i>Chair:</i> Andreas Bärmann	A-E FALQ, Extreme points for scheduling around a common due date	LARS ROHWEDDER, On Integer Programming and Convolution	ANDREAS BÄRMANN, The Clique Problem with Multiple-Choice Constraints and Two Polynomial Subcases				
Th	5:00pm-6:30pm 4x20 min	Advances in Integer Programming. <i>Organizer:</i> Robert Hildebrand	LAURA SANTÀ, On the diameter of the fractional matching polytope	GONZALO MUÑOZ, Treewidth-based Extension Complexity Lower Bounds	IGOR MALINOVIC, On valid inequalities for knapsack polytopes	ROBERT HILDEBRAND, Polynomial Integer Programming in Fixed Dimension and Applications in FPT			
Fr	8:30am-10:30am 4x30 min	Recent advances in Integer Optimization. <i>Organizer:</i> Alberto Del Pia	JEAN-PHILIPP RICHARD, Computational evaluation of new MIP models for tree ensembles optimization	DIEGO MORAN, Strong duality for conic mixed-integer programs	GUSTAVO ANGULO, An affine bounding method for two-stage stochastic integer programs	MERVE BODUR, Aggregation-based cutting-planes for packing and covering integer programs			
Fr	3:15pm-4:45pm 3x30 min	Submodular and Incremental Maximization. <i>Organizer:</i> Martin Gross	RAJAN UDWANI, Multi-objective Maximization of Monotone Submodular Functions	TASUKU SOMA, A New Approximation Guarantee for Submodular Maximization via Discrete Convexity	MARTIN GROSS, General Bounds for Incremental Maximization				
Fr	5:00pm-6:30pm 3x30 min	Algorithmic Discrepancy. <i>Organizer:</i> Nikhil Bansal	ALEKSANDAR NIKOLOV, Balancing Vectors in Any Norm	DANIEL DADUSH, The Gram-Schmidt Walk: A cure to the Banaszczyk Blues	REBECCA HOBERG, A Fourier-Analytic Approach For Random Set systems				

Room		Salle 41 - Build C - 3rd floor - Zone 1			
Mo 3:15pm-4:45pm 3x30 min	Scheduling with setup, uncertainty and precedences. <i>Organizer:</i> Monaldo Mastrolilli				
	KIM-MANUEL KLEIN, Empowering the Configuration-IP	NICOLE MEGOW, Scheduling under Explorable Uncertainty	JOSE VERSCHAE, Min-sum scheduling under precedence constraints		
Mo 5:00pm-6:30pm 4x20 min	Practical aspects of network optimization. <i>Chair:</i> Kai Hoppmann				
	SONIA VANIER, Energy-Efficient in Multi-Hop Wireless Networks Problem	KEISUKE HOTTA, Optimal division for the multi-member constituency system	SAMAN ESKANDARZADEH, Maintenance Scheduling in a Railway Corridor	KAI HOPPMANN, Pushing a Network to its Limits - Finding Maximum Min-Cost-Flows	
Tu 8:30am-10:30am 4x30 min	Equilibrium Computation in Congestion Games. <i>Organizer:</i> Umang Bhaskar				
	IOANNIS PANAGEAS, Multiplicative Weights Update with Constant Step-Size in Congestion Games	TOBIAS HARKS, Equilibrium Computation in Resource Allocation Games	GUIDO SCHÄFER, Computing Efficient Nash Equilibria in Congestion Games	UMANG BHASKAR, Equilibrium Computation in Atomic Splittable Routing Games with Convex Costs	
Tu 3:15pm-4:45pm 3x30 min	New developments in prophet inequalities and related settings. <i>Organizer:</i> Ruben Hoeksma				
	ASHISH CHIPLUNKAR, Prophet Inequality and Prophet Secretary	BRENDAN LUCIER, Prophets, Secretaries, and Prices	TIM OOSTERWIJK, Posted Prices and Threshold Strategies for Random Arrivals		
We 8:30am-10:30am 4x30 min	Discrete Convex Analysis. <i>Organizer:</i> Akiyoshi Shioura				
	AKIYOSHI SHIOURA, M-convex Function Minimization under L1-distance Constraint	ERIC BALKANSKI, On the Construction of Substitutes	FABIO TARDELLA, Discrete Midpoint Convexity	SATOKO MORIGUCHI, Scaling, proximity, and optimization of integrally convex functions	
We 3:15pm-4:45pm 3x30 min	Variants of the Assignment problem. <i>Organizer:</i> Kavitha Telikepalli				
	TOBIAS MÖMKE, Approximating Airports and Railways	AMI PAZ, A (2+eps)-Approximation for Maximum Weight Matching in the Semi-Streaming Model	KAVITHA TELIKEPALLI, Popularity, Mixed Matchings, and Self-duality		
We 5:00pm-6:30pm 4x20 min	Connectivity problems and Steiner trees. <i>Chair:</i> Andreas E Feldmann				
	MARCUS BRAZIL, Computing minimum 2-connected Steiner networks in the Euclidean plane	YASUKO MATSUI, Enumerating All Spanning Subgraphs with Edge-Connectivity at Least k	MARK TURNER, The variable-cost node-weighted Steiner tree problem in the Euclidean plane.	ANDREAS FELDMANN, Parameterized Approximation Algorithms for Bidirected Steiner Network Problems	
Th 8:30am-10:30am 4x30 min	Graphs and clutters. <i>Organizer:</i> Gerard Cornuejols				
	GUOLI DING, Packing cycles in a tournament	SHARAT IBRAHIMPUR, Min-Max Theorems for Packing and Covering Odd (u,v)-trails	AHMAD ABDI, Cuboids, a class of clutters	DABEEN LEE, Deltas, extended odd holes and their blockers	
Th 5:00pm-6:30pm 3x30 min	Approximation algorithms for combinatorial optimization problems. <i>Organizer:</i> Thomas Rothvoss				
	MOHIT SINGH, Approximation Algorithms for Diverse Subset Selection Problems	ROY SCHWARTZ, Local Guarantees in Graph Cuts and Clustering	ANUPAM GUPTA, Scheduling Stochastic Jobs on Unrelated Machines		
Fr 8:30am-10:30am 4x30 min	Recent progress in graph cut problems. <i>Organizer:</i> Karthekeyan Chandrasekaran				
	TAMÁS KIRÁLY, Approximation of Linear 3-Cut and related problems	EUIWOONG LEE, An FPT Algorithm Beat-ing 2-Approximation for k-Cut	YURY MAKARYCHEV, An Integrality Gap for the Călinescu–Karloff–Rabani Relaxation for Multiway Cut	KARTHEKEYAN CHANDRASEKARAN, Hyper-graph k-cut in randomized polynomial time	
Fr 5:00pm-6:30pm 4x20 min	Optimization problems in graphs and related. <i>Chair:</i> Claudio Arbib				
	XIUCUI GUAN, Critical node problem based on connectivity index and properties of components	BINWU ZHANG, Inverse Obnoxious Spanning Tree Problems under Hamming Distance	PING ZHAN, The random assignment problem on a full preference domain with sub-modular	MATTEO TONELLI, On uncapacitated metric location and pricing	

Salle 44 - Build C - 3rd floor - Zone 1				
Mo 3:15pm-4:45pm 3x30 min	IP Practice I, Chair: Maurice Queyranne RAPHAEL HAUSER, IP models for dimensionality reduction and feature selection in categorical data	CARLOS CARDONHA, Network models for multiobjective discrete optimization	MAURICE QUEYRANNE, Optimum Turn-Restricted Paths, Nested Compatibility, and Optimum Convex Polygons	
Mo 5:00pm-6:30pm 4x20 min	Data Mining, Chair: Marcus V Poggi TAKAHIRO KAN, A weighting local search for huge assignment problems in item recommendation	ATSUSHI MIYAUCHI, Exact Clustering via Integer Programming and Maximum Satisfiability	DENNIS KREBER, The best subset selection problem in regression	MARCUS POGGI, Cut and Column Generation for Process Discovery
Tu 8:30am-10:30am 4x30 min	Machine Learning for Optimization, Organizer: Bistra Dilkina BISTRA DILKINA, Machine Learning for Branch and Bound	MARKUS KRUBER, Learning when to use a decomposition	ELIAS KHALIL, Learning Combinatorial Optimization Algorithms Over Graphs	ANDREA LODI, Learning Discrete Optimization
Tu 3:15pm-4:45pm 3x30 min	Symmetry Handling in Integer Programs, Organizer: Christopher Hojny CÉCILE ROTTNER, Breaking full-orbital symmetries and sub-symmetries	DOMENICO SALVAGNIN, Symmetry Breaking Inequalities from the Schreier-Sims table	CHRISTOPHER HOJNY, Symmetry Breaking Polytopes: A Framework for Symmetry Handling in Binary Program	
We 8:30am-10:30am 4x30 min	Benders Decomposition for Combinatorial and Bilevel Optimization, Organizer: Fabio Furini ARTHUR MAHÉO, A Framework for Benders with Integer Sub-Problem	PAOLO PARONUZZI, New ILP formulations for the k-Vertex Cut Problem	IVANA LJUBIC, Decomposition Approaches to Covering Location Problems	FABIO FURINI, The Maximum Clique Interdiction Game
We 3:15pm-4:45pm 3x30 min	Knapsack Problems, Organizer: Enrico Malaguti ASHWIN ARULSELVAN, Algorithms for bilevel knapsack problem	ORLANDO RIVERA-LETELIER, Cutting Planes for the Multi-Modal Precedence Constrained Problem	ENRICO MALAGUTI, The Fractional Knapsack Problem with Penalties	
We 5:00pm-6:30pm 3x30 min	Exact Approaches for Vehicle Routing and Variants, Organizer: Ricardo Fukasawa RICARDO FUKASAWA, The Capacitated Vehicle Routing Problem with Stochastic Demands	CLAUDIO CONTARDO, Efficient metaheuristic pricing in vehicle routing	RAFAEL MARTINELLI, Exact Solution of a Class of Vehicle Scheduling Problems	
Th 8:30am-10:30am 4x30 min	Advanced Linear(ized) MIP Formulations for Zero-One Programs, Organizer: Sven Mallach LEON EIFLER, Mixed-Integer Programming for Clustering in Non-reversible Markov Processes	ADALAT JABRAYLOV, A new ILP for the Steiner Tree Problem with Revenues, Budget and Hop Constraints	DANIEL SCHMIDT, An extended formulation for the Steiner Forest Problem	SVEN MALLACH, Compact Linearization for Zero-One Quadratic Programs
Th 3:15pm-4:45pm 3x30 min	Computational Issues in Integer Programming, Organizer: Ricardo Fukasawa LAURENT POIRRIER, Implementation and performance of the simplex method	GIULIA ZARPELLON, Learning MILP resolution outcomes before reaching time-limit	ALEKSANDR KAZACHKOV, Computational Results with V-Polyhedral Cuts and Strengthening Approaches	
Th 5:00pm-6:30pm 4x20 min	Cutting Planes, Chair: Fabrizio Marinelli EDVIN ABLAD, A tighter ILP model and an improved branching for a load-balancing problem	SÁVIO DIAS, A Branch-and-Cut Approach for the Car Renter Salesman Problem	GEORGIA SOULI, On Lifted Cover Inequalities: A New Lifting Procedure with Unusual Properties	FABRIZIO MARINELLI, Exploiting star inequalities for the maximum quasi-clique problem
Fr 8:30am-10:30am 4x30 min	Integer Programming and Crew Scheduling, Organizer: Francois Soumis FRANCOIS SOUMIS, Dynamic Constraints Aggregation for Crew Scheduling Problem	VAHID ZEIGHAMI, Integrated Crew Pairing and Personalized Crew Assignment Problems	FRÉDÉRIC QUESNEL, Considering preferences and language skills in the airline crew pairings problem	MOHAMMED SADDOUNE, Alternate Lagrangian Decomposition for Integrated Crew Scheduling Problem
Fr 3:15pm-4:45pm 3x30 min	Routing, Chair: Cole Smith IMKE JOORMANN, Solving the Time-Dependent TSP using Machine Learning Guidance	ANN-BRITH STRÖMBERG, Column generation for routing a fleet of plug-in hybrid vehicles	COLE SMITH, The consistent path problem and binary decision diagrams	
Fr 5:00pm-6:30pm 4x20 min	Decomposition II, Chair: Natasha Boland ANDRE CIRE, Discrete Nonlinear Optimization by State-Space Decompositions	JENS CLAUSEN, Strengthening of mixed integer linear program bounds using variable splitting	CRISTIAM GIL, A column generation based model to pickup and delivery problems with trans	NATASHIA BOLAND, Decomposition Branching for Mixed Integer Programming

Salle 39 - Build E - 3rd floor - Zone 1			
Mo 3:15pm-4:45pm 3x30 min	Exact Optimization Algorithms for Compressed Sensing , <i>Organizer:</i> Marc E Pfetsch CHRISTOPH BRAUER, A primal-dual homotopy algorithm for sparse recovery with inf. norm constraints	ANDREAS TILLMANN, SparkMIP: Mixed-Integer Programming for the (Vector) Matroid Girth Problem	FREDERIC MATTER, Complex-valued ℓ_0 minimization problems with constant modulus constraints
Mo 5:00pm-6:30pm 3x30 min	Polynomial optimization in binary variables , <i>Organizer:</i> Elisabeth Rodriguez-Heck ARNAUD LAZARE, Unconstrained 0-1 polynomial optimization through convex quadratic reformulation	ANJA FISCHER, A study of specially structured polynomial matroid optimization problems	ELISABETH RODRIGUEZ-HECK, Linear and quadratic reformulations of nonlinear 0-1 optimization problems
Tu 8:30am-10:30am 4x30 min	Exact approaches for problems over lattices and graphs , <i>Chair:</i> Daniele Catanzaro AUSTIN BUCHANAN, Why is maximum clique often easy in practice?	MATTEO COSMI, Scheduling for Last-Mile Food Delivery	CATANZARO MARTIN FROHN, Optimizing over lattices of unrooted binary trees: Part I - Foundations DANIELE CATANZARO, Optimizing over lattices of unrooted binary trees: Part II - On the BMEP
Tu 3:15pm-4:45pm 3x30 min	Submodular optimization and beyond , <i>Chair:</i> Satoru Iwata MARTIN NÄGELE, Submodular Minimization Under Congruency Constraints	KENJIRO TAKAZAWA, The b -branching Problem: TDI System, Packing, and Discrete Convexity	SATORU IWATA, Index Reduction via Unimodular Transformations
We 8:30am-10:30am 4x30 min	Optimization under uncertainty , <i>Organizer:</i> Marco Molinaro WILLIAM UMBOH, Online Probabilistic Metric Embedding and its Applications	RAVISHANKAR KRISHNASWAMY, Online and Dynamic Algorithms for Set Cover	SAHIL SINGLA, Algorithms and Adaptivity Gaps for Stochastic Probing MARCO MOLINARO, Online and Random-order Load Balancing Simultaneously
We 3:15pm-4:45pm 3x30 min	Polyhedral aspects of combinatorial optimization problems , <i>Chair:</i> Guillaume Duval SHUNGO KOICHI, A polyhedral insight into covering a $2/3$ supermodular function by a graph	SERGEI CHUBANOV, Alternating contractions and their combinatorial applications	GUILLERME DUVAL, Comparison of some symmetry breaking techniques for graph coloring problem
We 5:00pm-6:30pm 4x20 min	Shortest paths and cutting stock , <i>Chair:</i> Arnaud Vandaele PEDRO DE LAS CASAS, Cost Projection Methods for the Shortest Path Problem with Crossing Costs	ADAM SCHIENLE, Solving the Time-Dependent Shortest Path Problem using Super-Optimal Wind	MIRIAM SCHLÖTER, Earliest Arrival Transshipments in Networks With Multiple Sinks ARNAUD VANDAELE, One-dimensional cutting stock instances for which few patterns are needed
Th 8:30am-10:30am 4x30 min	Graph theory , <i>Chair:</i> Thomas Bellitto ISABEL BECKENBACH, A Tight Cut Decomposition for Hypergraphs with Perfect Matchings	XUJIN CHEN, Densities, Matchings, and Fractional Edge-Colorings	YUTARO YAMAGUCHI, Making Bipartite Graphs DM-irreducible THOMAS BELLITTO, Optimal weighting to minimize the independence ratio of a graph
Th 3:15pm-4:45pm 3x30 min	Convexification and more (I) , <i>Organizer:</i> Jon Lee MARCIA FAMPA, Treating indefinite quadratic and bilinear forms in MINLP	AMÉLIE LAMBERT, Valid inequalities for QCQPs	LUZE XU, More Virtuous Smoothing
Th 5:00pm-6:30pm 4x20 min	Heuristics for combinatorial optimization problems , <i>Chair:</i> Evren Guney CID DE SOUZA, A Heuristic to the Fire-fighter Problem on Graphs	SHINSAKU SAKAUE, Accelerated Best-first Search for Monotone Submodular Function Maximization	KAZUYA FUKUOKA, A statistical stopping criterion for simulated annealing EVREN GUNEY, A Lagrangean Relaxation Based Heuristic For Efficient Influence Maximization
Fr 8:30am-10:30am 4x30 min	Algorithmic aspects of connectivity in network design , <i>Organizer:</i> Neil Olver BUNDIR LAEKHANUKIT, Beyond Metric Embedding: Approximating Group Steiner on Bounded Treewidth Graphs	MATEUSZ LEWANDOWSKI, Approximating Node-Weighted k -MST on Planar Graphs	ANDRE LINHARES, Improved Algorithms for MST and Metric-TSP Interdiction KANSTANTIN PASHKOVICH, On the Integrality Gap of the Prize-Collecting Steiner Forest LP
Fr 3:15pm-4:45pm 3x30 min	Outer Convexification and Mixed-Integer Optimal Control , <i>Organizer:</i> Sebastian Sager PAUL MANNS, Improved Regularity Assumptions for Partial Outer Convexification of MIPDECOs	CLEMENS ZEILE, Combinatorial Integral Approximation Decompositions for Mixed-Integer Control	SEBASTIAN SAGER OLIVER HABECK, Global optimization of ODE constrained network problems
Fr 5:00pm-6:30pm 3x30 min	Global Optimization for nonconvex MINLPs , <i>Organizer:</i> Hassan Hijazi ANYA CASTILLO, Global Optimization for AC Optimal Power Flow Applications	HARSHA NAGARAJAN, Tight Piecewise Formulations and Algorithms for Global Optimization of MINLPs	HASSAN HIJAZI, Semidefinite Programming Cuts in Gravity

Room				LEYTEIRE - Build E - 3rd floor - Zone 1			
Mo 3:15pm-4:45pm 3x30 min	Geometry of Polynomials and Applications in Approximate Counting. GUUS REGTS, On a conjecture of Sokal on the location of roots of the independence polynomial	PRYUSH SRIVASTAVA, Zeros of polynomials and Ising partition functions	Organizer: Shayan Oveis Gharan NIMA ANARI, A Deterministic Approximation Algorithm for Counting Bases of Matroids				
Mo 5:00pm-6:30pm 3x30 min	Scheduling and File Migration. LILLIANA GRIGORIU, Scheduling on Uniform Nonsimultaneous Parallel Machines	Chair: Asaf Levin MARCIN BIENKOWSKI, On phase-based algorithms for online file migration	ASAF LEVIN, A unified framework for designing EPTAS's for load balancing on parallel machine				
Tu 8:30am-10:30am 4x30 min	Streaming. Organizer: Michael Kapralov ERIC PRICE, Counting subgraphs in graph streams	DAVID WOODRUFF, Sublinear Time Low Rank Approximation of Positive Semidefinite Matrices	PAN PENG, Estimating Graph Parameters from Random Order Streams	MICHAEL KAPRALOV, $(1 + \Omega(1))$ -Approximation to MAX-CUT Requires Linear Space			
Tu 3:15pm-4:45pm 3x30 min	Algorithms in the Sharing Economy. ANTHONY KIM, Minimizing Latency in On-line Ride and Delivery Services	Organizer: David Shmoys ALICE PAUL, Broken Bike Docks and the Prize-Collecting Traveling Salesman Problem	DAVID SHMOYS, Allocating capacity in bike-sharing systems				
We 8:30am-10:30am 4x30 min	Approximation Algorithms for the Traveling Salesman Problem. Organizer: Anke van Zuylen STEPHAN HELD, Vehicle Routing with Subtours	KENT QUANRUD, Fast Approximations for Metric TSP	JENS VYGEN, The s - t -path TSP: past, present, and future	ANKE VAN ZUYLEN, The Salesman's Paths: Layered Christofides' Trees, Deletion and Matroids			
We 11:00am-12:00am 1x60 min	Model-Based Methods, Sampling Models, and A New Second-Order Model-Based Method. Organizer: Stefan M Wild LUIS NUNES VICENTE, Model-Based Methods, Sampling Models, and A New Second-Order Model-Based Method						
We 3:15pm-4:45pm 3x30 min	Clustering. Organizer: Mohammad ARAVINDAN VIJAYARAGHAVAN, Clustering Mixtures of Well-Separated Gaussians	R Salavatipour KONSTANTIN MAKARYCHEV, Correlation Clustering	MELANIE SCHMIDT, Analysis of Ward's method				
We 5:00pm-6:30pm 3x30 min	Approximation Algorithms for Geometric Packing Problems. Organizer: Fabrizio Grandoni FABRIZIO GRANDONI, Approximating Geometric Knapsack via L-Packings	ANDREAS WIESE, Parameterized $(1+\epsilon)$ -approximation algorithms for packing problems	KLAUS JANSEN, Closing the gap for pseudo-polynomial strip packing				
Th 8:30am-10:30am 4x30 min	Submodular Maximization. Organizer: Moran Feldman MORAN FELDMAN, Deterministic and Combinatorial Algorithms for Submodular Maximization	BARUCH SCHIEBER, Constrained Submodular Maximization via Greedy Local Search	SIMON BRUGGMANN, Submodular Maximization through the Lens of Linear Programming	NIV BUCHBINDER, Constrained Submodular Maximization via a Non-symmetric Technique			
Th 3:15pm-4:45pm 3x30 min	Approximation Algorithms for Clustering. Organizer: Deeparnab Chakrabarty JAROSLAW BYRKA, Constant-Factor Approximation for Ordered k -Median	AMIT JAYANT DESHPANDE, Sampling-based algorithms and clustering with outliers	DEEPARNAB CHAKRABARTY, Generalized Center Problems with Outliers				
Th 5:00pm-6:30pm 3x30 min	Approximation Algorithms for Optimization under Uncertainty. Organizer: Marc Uetz THOMAS KESSELHEIM, Prophet Inequalities Made Easy: Stochastic Opt. by Pricing Non-Stochastic Inputs	MAX KLIMM, Hiring Secretaries over Time: The Benefit of Concurrent Employment	MARC UETZ, Greed is Good - Online Algorithms for Stochastic Unrelated Machine Scheduling				
Fr 8:30am-10:30am 4x30 min	Data-Driven Revenue Management with Customer Choice. Organizer: Jacob Feldman ANTOINE DESIR, Constrained Assortment Optimization under the Markov Chain based Choice Model	DANNY SEGEV, Near-Optimal Approximations for Dynamic Assortment Planning under the MNL Model	ALI AOUAD, Near-Optimal Approximations for Display Optimization Under MNL Preferences	JACOB FELDMAN, New Results for Assortment Optimization under the Exponential Choice Model			
Fr 11:00am-12:00am 1x60 min	Majority judgment. Organizer: Martine Labbé MICHEL BALINSKI, Majority judgment						
Fr 3:15pm-4:45pm 3x30 min	Submodular Maximization. Organizer: Justin Ward ILIJIA BOGUNOVIC, Robust Maximization of Submodular Objs. in the Presence of Adversarial Removals	ALFREDO TORRICO, Robust submodular maximization under matroid constraints	AMIN KARBASI, Submodular Optimization: From Discrete to Continuous and Back				
Fr 5:00pm-6:30pm 4x20 min	Algorithmic Fairness and Optimization. Organizer: Nisheeth K Vishnoi KRISHNA GUMMADI, Measuring Algorithmic (Un)Fairness via Inequality Indices	ELISA CELIS, Controlling Bias in Bandit-based Personalization	OMER REINGOLD, Calibration for the (Computationally-Identifiable) Masses	NISHEETH VISHNOI, Fair and Diverse DPP-based Data Summarization			

DURKHEIM - Build A - 3rd floor - Zone 1			
Mo 3:15pm-4:45pm 3x30 min	Global Optimization. <i>Organizer:</i> Hassan Hijazi ADAM OUGROU, A class of proximal algorithms based on Chebyshev centers for nonsmooth convex o	KAARTHIK SUNDAR, Convex relaxations for Mixed-Integer Multilinear Functions	TILLMANN WEISSER, Sparse Certificates for Polynomial Optimization
Mo 5:00pm-6:30pm 3x30 min	Mixed-Integer Conic Optimization. <i>Organizer:</i> Sven Wiese LUCAS LETOCART, Exact methods based on SDP for the k-item quadratic knapsack problem	TRISTAN GALLY, Knapsack Constraints over the Positive Semidefinite Cone	SVEN WIESE, The Mixed-integer Conic Optimizer in MOSEK
Tu 8:30am-10:30am 4x30 min	Graphical Optimization Model 1. <i>Organizer:</i> Joris Kinable DAVID BERGMAN, On the integrated last mile transportation problem	WILLEM-JAN VAN HOEVE, Cut Generation for Integer (Non-)Linear Programming via Decision Diagrams	JORIS KINABLE, Hybrid Optimization Methods for Time-Dependent Sequencing Problems JOHN HOOKER, Compact Representation of Near-Optimal Integer Programming Solutions
Tu 3:15pm-4:45pm 3x30 min	Applications in Mixed-Integer Quadratic Programming. <i>Organizer:</i> Boshi Yang BOSHI YANG, Improved Representations of the Quadratic Linear Ordering Problem	AREESH MITTAL, Robust QCQPs Under Mixed Integer Uncertainty	CHIARA LITI, Machine Learning and Optimization for Neuroscience
We 8:30am-10:30am 4x30 min	Learning in CP. <i>Organizer:</i> Arnaud Nadjib Laazar, Constraint acquisition	Lallouet ARNAUD LALLOUET, Reasoning with Learned Constraints	ARNAUD GOTLIEB, Boundary Estimation: Learning Boundaries for Constraint Optimization Problems MICHELA MILANO, Empirical Model Learning: boosting optimization through machine learning
We 3:15pm-4:45pm 3x30 min	Decomposition methods for MINLP. <i>Organizer:</i> Ivo Nowak IVO NOWAK, Decomposition-based Successive Approximation Methods for MINLP	PAVLO MUTS, Decogo - A new decomposition-based MINLP solver	ELIGIUS HENDRIX, On simplicial monotonicity and dimension reduction in MINLP
We 5:00pm-6:30pm 3x30 min	MINLP (III). <i>Organizer:</i> Daniel Bienstock ALBERTO DEL PIA, Cardinality-constrained linear regression with sparse matrices	GUANYI WANG, Computational evaluation of new dual bounding techniques for sparse PCA	JEFF LINDEROTH, Cutting Planes for Linear Programs with Complementarity Constraints
Th 8:30am-10:30am 4x30 min	Parallel Computing and Sustainability. <i>Organizer:</i> Bistra Dilkina FEI FANG, Designing the game to play in security and sustainability domains	NAHID JAFARI, A Robust Optimization Model for an Invasive Species Management Problem	SALVADOR ABREU, Parallel Hybridization for Simple Heuristics CIARAN MCCREESH, Parallel Search, Ordering, Reproducibility, and Scalability
Th 3:15pm-4:45pm 3x30 min	Applications of CP. <i>Organizer:</i> Louis-Martin Rousseau OLIVIER BACHOLLET, A Constraint Programming approach to a meal delivery problem	FLORIAN GRENOUILLEAU, A Decomposition Approach for the Home Health Care Routing and Scheduling Problem	LOUIS-MARTIN ROUSSEAU, A CP Approach to the Traveling Salesman Problem in the Postal Services
Th 5:00pm-6:30pm 3x30 min	Convexification and more (II). <i>Organizer:</i> Akshay Gupte CHRISTOPH BUCHHEIM, Binary Programming with Semilinear Elliptic PDE-constraints	CHRISTOPHER COEY, Using algebraic structure to accelerate polyhedral approximation	ANDRES GOMEZ, Quadratic optimization with M-matrices and semi-continuous variables
Fr 8:30am-10:30am 4x30 min	Graphical Optimization Model 2. <i>Organizer:</i> Maria I. Restrepo SIMON DE GIVRY, Recent algorithmic advances for combinatorial optimization in graphical models	THOMAS SCHIEX, Learning and using Graphical models to design new molecules	MARIA RESTREPO, Integrated staffing and scheduling for home healthcare DANIEL KOWALCZYK, Solving parallel machine scheduling problems with B and P and decision diagrams
Fr 3:15pm-4:45pm 3x30 min	Intersection cuts, disjunctions, and valid inequalities. <i>Organizer:</i> Eli Towle DANIEL BIENSTOCK, Outer-product-free Sets for Polynomial Optimization	EGON BALAS, Synthesizing branch-and-bound information into cutting planes	ELI TOWLE, Intersection disjunctions for reverse convex sets
Fr 5:00pm-6:30pm 3x30 min	Mixed-Integer PDE-Constrained Optimization. <i>Organizer:</i> Sven Leyffer MEENARLI SHARMA, Inversion of Convection-Diffusion PDE with Discrete Source	MARTIN SIEBENBORN, Shape optimization towards binary variables with PDE constraints	MIRKO HAHN, Set-valued steepest descent for binary topology and control optimization

SIGALAS - Build C - 2nd floor - Zone 2				
Mo 1:30pm-2:30pm 1x60 min	What's happening in nonconvex optimization? A couple of stories , <i>Organizer: Jean-Baptist Hiriart-Urruty</i>			
	EMMANUEL CANDES, What's happening in nonconvex optimization? A couple of stories			
Mo 3:15pm-4:45pm 3x30 min	On the Tree Augmentation Problem , <i>Organizer: Laura Sanità</i>			
	DAVID ADJASHVILI, Beating Approximation Factor 2 For Weighted Tree Augmentation With Bounded Costs	JOCHEN KOENEMANN, Improved Approximation for Tree Augmentation via Chvatal Gomory Cuts	RICO ZENKLUSEN, Improved Approximation for Tree Augmentation: Saving by Rewiring	
Mo 5:00pm-6:30pm 4x20 min	Combinatorial optimization and convexity , <i>Chair: Yu Yokoi</i>			
	YUNI IWAMASA, Discrete convexity in binary VCSPs	FEI WANG, Low matrix completion by a majorized penalty approach	GEORG LOHO, Abstract tropical linear programming	YU YOKOI, List Supermodular Coloring
Tu 8:30am-10:30am 4x30 min	Matching games and beyond , <i>Organizer: Jochen Koeneemann</i>			
	ZHUAN KHYE KOH, Stabilizing Weighted Graphs	JUSTIN TOTH, Computing the Nucleolus of Weighted Cooperative Matching Games in Poly Time	JANNIK MATUSCHKE, New and simple algorithms for stable flow problems	AGNES CSEH, The complexity of cake cutting with unequal shares
Tu 3:15pm-4:45pm	A.W. Tucker Prize Session , <i>Chair: Simge Kucukyavuz</i>			
We 8:30am-10:30am 4x30 min	Stochastic optimization , <i>Chair: Alexei A. Gaivoronski</i>			
	BERNARDO COSTA, Using disjunctive programming to represent Risk Aversion policies	ANTHONY DOWNWARD, SDDP with stage-wise-dependent objective coefficient uncertainty	ALEXEI GAIVORONSKI, Stochastic optimization of simulation models: management of	KAZEM ABBASZADEH, Demand Response To Electricity Prices In Flexible Manufacturing
We 3:15pm-4:45pm 3x30 min	Logistics , <i>Chair: Frieder Smolny</i>			
	KAJ HOLMBERG, Using OpenStreetMap data for route optimization: extraction and reduction	GWÉNAËL RAULT, Modeling the Periodic Vehicle Routing Problem in an industrial context	FRIEDER SMOLNY, Multiscale optimization of logistics networks	
We 5:00pm-6:30pm 4x20 min	Solvers and softwares , <i>Chair: François Clautiaux</i>			
	JULIEN DARLAY, Solving packing, routing and scheduling problems using Local-Solver	PAWEL LICHOCKI, Applied mixed integer programming: The why and how	ROBERT LUCE, Solving MIPs with Gurobi Instant Cloud	JOHANNES MÜLLER, Creating an optimization web app with FICO Xpress
Th 8:30am-10:30am 4x30 min	Energy , <i>Chair: Kazem Abbaszadeh</i>			
	RISHI ADIGA, Optimization Models for Geothermal Energy	RODOLPHE GRISET, Static robustness for EDF nuclear long term production planning	GABRIELA MASCHIETTO, Optimization of district heating production operations	MAHBUBEH HABIBIAN, Demand and reserve co-optimization for a price-making consumer of electricity
Th 3:15pm-4:45pm 3x30 min	Algorithms for TSP , <i>Organizer: Ola Svensson</i>			
	VERA TRAUB, Approaching $3/2$ for the s-t-path TSP	RAMAMOORTHY RAVI, Cut-Covering Decompositions for Connectivity Problems	OLA SVENSSON, A Constant-factor Approximation Algorithm for the Asymmetric Traveling Salesman	
Th 5:00pm-6:30pm 4x20 min	Planning , <i>Chair: Jeanjean Antoine</i>			
	JEANJEAN ANTOINE, Planning model for recommerce activities	BORIS GRIMM, A Propagation Approach for Railway Rolling Stock Optimization	ERIC BOURREAU, Real Size Exam Timetabling at Montpellier University (France)	MOHAMED BENKIRANE, An Hypergraph Model for the Rolling Stock Rotation Planning and Train Selection
Fr 8:30am-10:30am 4x30 min	Matching and scheduling , <i>Organizer: Seffi Naor</i>			
	DAVID WAJC, Online Matching in Regular Graphs (and Beyond)	SAMIR KHULLER, Coflow Scheduling and beyond	GUY EVEN, Best of Two Local Models: Centralized local and Distributed local Algorithms	SEFFI NAOR, Competitive Algorithms for Online Multi-level Aggregation
Fr 3:15pm-4:45pm 3x30 min	Combinatorial aspects of Linear Programming , <i>Organizer: Daniel Dadush</i>			
	SOPHIE HUIBERTS, A Friendly Smoothed Analysis of the Simplex Method	GIACOMO ZAMBELLI, Geometric Rescaling Algorithms for Submodular Function Minimization	NEIL OLVER, A Simpler and Faster Strongly Polynomial Algorithm for Generalized Max-Flow	
Fr 5:00pm-6:30pm 3x30 min	Packing Steiner Trees , <i>Organizer: Stephan Held</i>			
	DIRK MÜLLER, Global Routing with Timing Constraints	PIETRO SACCARDI, Steiner Tree Packing in Rhomboidal Tiles	TILMANN BIHLER, Reach- and Direction-Restricted Rectilinear Steiner Trees	

Salle 34 - Build B - 1st floor - Zone 3			
Mo 3:15pm-4:45pm 3x30 min	Tight relaxations in nonconvex MINLP , <i>Organizer:</i> Ambros Gleixner EMILY SPEAKMAN, Using mixed volume theory to compute convex hull volume for trilinear monomials	STEFAN VIGERSKE, Revising the handling of nonlinear constraints in SCIP	AMBROS GLEIXNER, Two-dimensional Projections for Separation and Propagation of Bilinear Terms
Mo 5:00pm-6:30pm 3x30 min	Lattice methods in Integer Optimisation , <i>Organizer:</i> Iskander Aliev GENNADIY AVERKOV, Approximation of corner polyhedra with intersection cuts	TIMM OERTEL, The Support of Integer Optimal Solutions	ISKANDER ALIEV, Distances to Lattice Points in Knapsack Polyhedra
Tu 8:30am-10:30am 3x30 min	MIP under Uncertainty I , <i>Organizer:</i> Fatma Kilinc-Karzan SHABBIR AHMED, Distributionally Robust Combinatorial Optimization	SIMGE KUCUKYAVUZ, Risk-Averse Set Covering Problems	RUIWEI JIANG, Mixed-Integer Recourse via Prioritization
Tu 3:15pm-4:45pm 3x30 min	Convex relaxations in MINLP , <i>Organizer:</i> Adam N Letchford BORZOU ROSTAMI, A convex reformulation and an outer approximation for a class of BQP	FELIPE SERRANO, Separating over the convex hull of MINL constraints	ADAM LETCHFORD, Bi-Perspective Cuts for Mixed-Integer Fractional Programs
We 8:30am-10:30am 3x30 min	MINLP (I) , <i>Organizer:</i> Daniel Bienstock BACHIR EL KHADIR, Time-Varying Semidefinite Programs	KURT ANSTREICHER, Strengthened Relaxations for Quadratic Optimization with Switching Variables	JAMES RENEGAR, A Simple Nearly-Optimal Restart Scheme For Speeding-Up First Order Methods
We 3:15pm-4:45pm 3x30 min	MINLP (II) , <i>Organizer:</i> Daniel Bienstock AKSHAY GUPTA, Polyhedral relaxations for nonconvex quadratic functions	MOHIT TAWARMALANI, Product convexification: A new relaxation framework for nonconvex programs	JAVAD LAVAEI, Sparse conic optimization: low-rank solutions and near-linear time algorithms
We 5:00pm-6:30pm 3x30 min	Robust Approaches for Challenging Uncertain Optimization Problems , <i>Organizer:</i> Frauke Liers TIMO GERSING, A New Approach for Extending Cover Inequalities for the Robust Knapsack Polytope	ANDREAS SCHMITT, An Interdiction Approach for the Design of High-Rise Water Supply Systems	SEBASTIAN TSCHUPPIK, Robust optimization with selected scenarios
Th 8:30am-10:30am 4x30 min	Integer linear programming, convex geometry, and lattices , <i>Organizer:</i> Achill Schürmann, Exploiting Linear Symmetries in Integer Convex Optimization	MATTHIAS SCHYMURA, On the reverse isodiametric problem	SINAI ROBINS, Fourier transforms of polytopes, solid angle sums, and discrete volumes
Th 3:15pm-4:45pm 3x30 min	Heuristics in MINLP , <i>Chair:</i> Bertrand Travacca JOÃO LAURO FACO, MINLP solutions using a Generalized-GRASP solver	CHRISTOPH NEUMANN, Feasible rounding ideas for mixed-integer optimization problems	BERTRAND TRAVACCA, Dual Hopfield Models for Large Scale Mixed Integer Programming
Th 5:00pm-6:30pm 3x30 min	Relaxations in MINLP , <i>Chair:</i> Jan Kronqvist RALF LENZ, Tight Convex Relaxations for Expansion Planning of Potential Driven Networks	JAN KRONQVIST, Using Regularization and Second Order Derivatives with Outer Approximation	ANDREAS LUNDELL, The Supporting Hyperplane Optimization Toolkit for Convex MINLP
Fr 8:30am-10:30am 3x30 min	Optimal Control Problems with Discrete Switches , <i>Organizer:</i> Christian Kirches ADRIAN BÜRGER, An Algorithm for Model-Predictive Control of Switched Nonlinear Dynamic Systems	FELIX BESTEHORN, Approximation algorithms for MIOCPs with discontinuous switch costs	MATTHIAS SCHLOEDER, Numerical Modeling of Switched Systems with Jumps in Optimal Control Problems
Fr 3:15pm-4:45pm 3x30 min	Polyhedral theory in practice , <i>Organizer:</i> Mourad Baiou RAFAEL COLARES, The Stop Number Minimization Problem: polyhedral analysis	FRANCISCO BARAHONA, On the nucleolus of shortest path and network disconnection games	MOURAD BAIYOU, On some network security games
Fr 5:00pm-6:30pm 4x20 min	Machine Learning and Discrete Optimization , <i>Organizer:</i> Sebastian Pokutta MATTEO FISCHETTI, Building adversarial examples in Neural Networks by Mixed Integer Optimization	ANIRBIT MUKHERJEE, Mathematics of Neural Networks	PAUL GRIGAS, Smart "Predict, then Optimize" SEBASTIAN POKUTTA, Lazy Conditional Gradients through Simpler Oracles

Salle 36 - Build B - Intermediate - Zone 4			
Mo 3:15pm-4:45pm 3x30 min	Matching and Matroids, Organizer: José A Soto MAXIMILIEN BURQ, Maximizing Efficiency in Dynamic Matching Markets	MORTEZA ZADIMOGHADDAM, Online Weighted Matching: Beating the 1/2 Barrier	José Soto, Strong Algorithms for the Ordinal Matroid Secretary Problem
Mo 5:00pm-6:30pm 4x20 min	IP Practice II, Chair: Petra M. Bartmeyer GAEL GUILLLOT, Application of the SSSDP method to combinatorial optimisation problems	YI-SHUAI NIU, A Parallel Branch and Bound with DC Algorithm for Mixed Integer Optimization	QUENTIN VIAUD, Two-dimensional bin packing problem with defects on bins PETRA BARTMEYER, A new approach to relax the binary variables on binary quadratic problems
Tu 8:30am-10:30am 4x30 min	Approximation Algorithms for Clustering, Organizer: Chaitanya Swamy SARA AHMADIAN, Better Guarantees for k-Means Problem using Primal-Dual Algorithms	CHRIS SCHWIEGELSHOHN, On the Local Structure of Stable Clustering Instances	BENJAMIN MOSELEY, Approximation Bounds for Hierarchical Clustering CHAITANYA SWAMY, Unifying k-Median and k-Center: Approximation Algorithms for Ordered k-Median
Tu 3:15pm-4:45pm 3x30 min	Local Search and Facility Location, Organizer: Felix Willamowski NEELIMA GUPTA, Local Search based Approximation Algorithms for Capacitated k-median problems.	KRZYSZTOF SORNAT, Proportional Approval Voting, Harmonic k-median, and Negative Association	FELIX WILLAMOWSKI, Hard Instances for Local Search via Mixed Integer Programming
We 8:30am-10:30am 4x30 min	Approximation Algorithms for Scheduling Problems, Organizer: Nicole Megow RUBEN HOEKSMAS, The general scheduling problem with uniform release dates is not APX-hard	CLIFFORD STEIN, Minimizing Maximum Flow Time on Related Machines via Dynamic Pricing	SVEN JÄGER, Generalizing the Kawaguchi-Kyan Bound to Stochastic Parallel Machine Scheduling JULIAN MESTRE, Precedence-Constrained Min Sum Set Cover
We 3:15pm-4:45pm 3x30 min	Decomposition I, Chair: Dieter Wening KEREM BULBUL, Benders Decomposition and Column-and-Row Generation for LPs w/Column-Dependent Rows	PAUL STURSBURG, Improved Cut Selection for Benders Decomposition	DIETER WENIGER, A Penalty Alternating Direction Decomposition Framework for MIPs
We 5:00pm-6:30pm 3x30 min	Online Optimization, Organizer: Kevin Schewior VICTOR VERDUGO, How large is your graph?	ANDREAS TÖNNIS, Submodular Secretary Problems: Cardinality, Matching, and Linear Constraints	KEVIN SCHEWIOR, Tight Competitive Analysis for Online TSP on the Line
Th 8:30am-10:30am 4x30 min	Bin Packing, Chair: Frits CR Spieksma NADIA BRAUNER, Automatically computed bounds for the online bin stretching problem	LEAH EPSTEIN, Batched bin packing	SHLOMO KARHI, Online Packing of Arbitrary Size Items into Designated and Multipurpose Bins FRITS SPIEKSMAS, Partitioning Vectors into Quadruples
Th 3:15pm-4:45pm 3x30 min	Routing and Inventory, Organizer: Dorit Hochbaum ALEXANDER BIRX, Improved upper bound for online Dial-a-Ride on the line	JAN MARCINKOWSKI, A 4/5 - Approximation Algorithm for the Maximum Traveling Salesman Problem	DORIT HOCHBAUM, The gap between the continuous and discrete Replenishment Schedule problem
Th 5:00pm-6:30pm 4x20 min	Matching Problems, Organizer: Sergio García Quiles THANH NGUYEN, Stable Matching with Proportionality Constraints	MAXENCE DELORME, Mathematical models for stable marriage problems with ties	WILLIAM PETERSSON, Improvements in Kidney Exchange Programme Models for Large-Scale Programmes PETER BIRO, Stable project allocation under distributional constraints
Fr 8:30am-10:30am 4x30 min	Clustering, Organizer: Zac Friggstad ARNAUD DE MESMAY, A Near-Linear Approximation Scheme for Multicuts of Embedded Graphs	VINCENT COHEN-ADDAD, On local search for clustering	ZAC FRIGGSTAD, Approximation Schemes for Clustering With Outliers ASHKAN NOROUZI FARD, Dynamic Facility Location via Exponential Clocks
Fr 3:15pm-4:45pm 3x30 min	IP Practice III, Chair: Samuel S Brito FRANCO QUEZADA, Valid inequalities for solving a stochastic lot-sizing problem with returns	SAMUEL BRITO, Improving COIN-OR CBC MIP Solver Using Conflict Graphs	MAXIMILIAN JOHN, Two Lower Bound Approaches for the Keyboard Layout Problem
Fr 5:00pm-6:30pm 2x20 min	Dual Ascent, Chair: Sara Maqrot STEFANIA PAN, A dual ascent procedure for solving the generalized set partitioning model	SARA MAQROT, Improving Wedelin's Heuristic with Sensitivity Analysis for Set Partitioning	

Salle 35 - Build B - Intermediate - Zone 4			
Mo 3:15pm-4:45pm 3x30 min	MINLP methods in gas transport optimization (I), Organizer: Lars Schewe LARS SCHEWE, MIP techniques for instantaneous gas transport optimization and gas market models	NICK MERTENS, Solving MINLPs by Simultaneous Convexification with Application to Gas Networks	FALK HANTE, Complementarity-Based Nonlinear Programming Techniques for Optimal Mixing in Gas
Mo 5:00pm-6:30pm 3x30 min	MINLP methods in gas transport optimization (II), Organizer: Lars Schewe BENJAMIN HILLER, Exploiting acyclic orientations to solve nonlinear potential-based flow problems	KAI BECKER, ASTS-Orientations on Undirected Graphs - A tool for optimizing network flows	JOHANNES THÜRAUF, Robust Optimal Discrete Arc Sizing for Tree-Shaped Potential Networks
Tu 8:30am-10:30am 4x30 min	Cutting Planes for Integer Programs, Chair: Matthias Köppe JIawei WANG, Characterization and Approximation of General Dual-Feasible Functions	YUAN ZHOU, All finite group complexity in-jects	DANIEL PORUMBEL, Projective cutting-planes by projecting interior points onto polytope facets MATTHIAS KÖPPE, cutgeneratingfunctionology: Python software for CGFs and super-additive duality
Tu 3:15pm-4:45pm 3x30 min	Applications of MINLP, Organizer: Dolores Romero Morales CLAUDIA LÓPEZ, Packing problem as mixed integer non-linear model using formulation space search	STEFFEN REBENACK, Piecewise Linear Function Fitting via Mixed-Integer Linear Programming	DOLORES ROMERO MORALES, Feature Selection for Benchmarking
We 8:30am-10:30am 4x30 min	Advances in Integer Programming, Organizer: Santanu S Dey SANJEEB DASH, A generalization of Gomory-Chvatal cuts	BURAK KOCUK, Integer Programming Techniques for Optimal Transmission Switching Problems	ALEJANDRO TORIELLO, Time-indexed Relaxations for the Online Bipartite Matching Problem LAURENCE WOLSEY, Constant Capacity Flow Cover Inequalities on a Path or a Variant of Lot-Sizing
We 3:15pm-4:45pm 3x30 min	MINLP for Data Science, Organizer: Vanesa Guerrero SANDRA BENÍTEZ-PEÑA, Cost-sensitive SVM	CRISTINA MOLERO-RÍO, Optimizing classification trees via non-linear continuous programming	VANESA GUERRERO, MINLP to visualize dynamic proximities and frequencies
We 5:00pm-6:30pm 3x30 min	Advances in MINLP, Organizer: Laura Palagi MARIANNA DE SANTIS, An Active Set Algorithm for Robust Combinatorial Optimization	VERONICA PICCIAILLI, Membrane System Design Optimization	EMILIANO TRAVERSI, Dantzig Wolfe Decomposition for Binary Quadratic Programming
Th 8:30am-10:30am 4x30 min	Convexity and Polytopes, Chair: David Warme EMILIANO LANCINI, Box-Total Dual Integrality and k-Edge-Connectivity	TAMON STEPHEN, On the Circuit Diameter Conjecture	FILIFE CABRAL, The role of extreme points for convex hull operations. DAVID WARME, Metrics for Strength of Inequalities with Respect to a Polytope
Th 3:15pm-4:45pm 3x30 min	MINLP with quadratic terms, Chair: Enrico Bettiol FABRIGIO OLIVEIRA, The p -Lagrangian method for MIQCQPs	ETIENNE LECLERCQ, A dedicated version of BiqCrunch for solving the Max-Stable Set problem exactly	ENRICO BETTIOL, Simplicial Decomposition for quadratic convex 0-1 problems
Th 5:00pm-6:30pm 3x30 min	Applications in MINLP, Chair: Justo Puerto DO DUC LE, Modeling and optimization of traffic at traffic-light controlled intersections	MAXIMILIAN MERKERT, Flow-based extended formulations for feasible traffic light controls	JUSTO PUERTO, MINLP for pricing transaction costs in different models of portfolio selection
Fr 8:30am-10:30am 4x30 min	Mixed Integer Programming Representability, Organizer: Juan Pablo Vielma CHRIS RYAN, Mixed-integer linear representability, disjunctions, and Chvátal functions	JOEY HUCHETTE, A mixed-integer branching approach for very small formulations	MARC PFETSCH, On the Size of Integer Programs with Sparse Constraints or Bounded Coefficients JUAN PABLO VIELMA, Mixed-integer convex representability
Fr 3:15pm-4:45pm 3x30 min	Branch-and-cut techniques, Organizer: Teodora Dan TEODORA DAN, A branch-and-bound algorithm for a bilevel location-allocation model	LOVIS ANDERSON, Improving branching for disjunctive models via approximate convex decompositions	TU NGUYEN, Learning with Cutting Planes
Fr 5:00pm-6:30pm 3x30 min	Recent Advances and Applications of MINLP, Organizer: Jose M Ucha VICTOR BLANCO, Duality and multidimensional kernels in ℓ_p -Support Vector Machines	JOSE UCHA, An algebraic exact method for multi-objective RAP in series-parallel systems.	JEFFREY ZHANG, On Testing Attainment of the Optimal Value in Nonlinear Optimization

Room				Salle 37 - Build B - Intermediate - Zone 4			
Mo 5:00pm-6:30pm 3x20 min	New models in robust optimization. <i>Chair: Juan S Borrero</i>						
	JAEYOONG LIM, On using cardinality constrained uncertainty for objective coefficients	PHILIP KOLVENBACH, Robust optimization of PDE-constrained problems using second-order methods	JUAN BORRERO, Robust optimization with non-convex uncertainty sets				
Tu 8:30am-10:30am 3x30 min	Nonlinear Optimization with Uncertain Constraints. <i>Organizer: Charlie Vanaret</i>						
		ANDREAS WAECHTER, Nonlinear programming reformulations of chance constraints (Part 2)	ALEJANDRA PENA-ORDIERES, Nonlinear programming reformulations of chance constraints (Part 1)			SVEN LEYFFER, Sequential Linearization for Nonlinear Robust Optimization	
We 8:30am-10:30am 4x30 min	Interfaces of Applied Probability and Optimization. <i>Organizer: Omar El Housni</i>						
	JULIEN GRAND CLEMENT, Robust Markov Decision Process: Beyond (and back to) Rectangularity	OMAR EL HOUSNI, Beyond Worst-case: A Probabilistic Analysis of Affine Policies	OMID NOHADANI, Sustainable Inventory With Robust Periodic-affine Policies and Med. Supply Chains			KARTHIK NATARAJAN, Distributionally Robust Markovian Traffic Equilibrium	
We 3:15pm-4:45pm 3x30 min	Cursing the Dimensionality: Two-Stage and Multi-Stage Robust Optimization. <i>Organizer: Angelos Tsoukalas</i>						
	CHIN PANG HO, Efficient Algorithms for Robust MDPs with State Rectangularity	FRANS DE RUITER, Dual approach for two-stage robust nonlinear optimization models	ANGELOS TSOUKALAS, Robust Dual Dynamic Programming				
We 5:00pm-6:30pm 2x30 min	Robust Adaptive Control and Learning. <i>Organizer: Siqian Shen</i>						
	SIQIAN SHEN, Distributionally Robust Adaptive Control under Nonstationary Uncertainty	LAUREN STEIMLE, Leveraging stochastic programming to design robust policies for Markov decision					
Th 8:30am-10:30am 4x30 min	K-adaptability. <i>Organizer: Anirudh Subramanyam</i>						
	JANNIS KURTZ, Min-max-min Robust Optimization for the Capacitated Vehicle Routing Problem	MICHAEL POSS, Min-Max-Min Robustness for Combinatorial Problems with Budgeted Uncertainty	JONAS PRUENTE, K-Adaptability in Stochastic Programming			ANIRUDH SUBRAMANYAM, K-Adaptability in Two-Stage Mixed-Integer Robust Optimization	
Th 3:15pm-4:45pm 3x30 min	Non-linear robust optimization. <i>Chair: Laurent Alfandari</i>						
	DANIEL DE ROUX, Graph learning with the Wasserstein metric	LAURENT ALFANDARI, Robust optimization for non-linear impact of data variation	SUH-WEN CHIOU, A mathematical program for signal control with equilibrium constraints				
Th 5:00pm-6:30pm 4x20 min	Combinatorial robust optimization I. <i>Organizer: Marc Goerigk</i>						
	ARTUR PESSOA, Solving the Robust Capacitated Vehicle Routing Problem Under Demand Uncertainty	MARC GOERIGK, Approximating combinatorial optimization problems with the OWA criterion	OYKU NAZ ATTILA, Reformulations for Robust Lot-Sizing Problem with Remanufacturing			CHRISTOPH HANSKNECHT, Fast robust shortest path computations	
Fr 5:00pm-6:30pm 4x20 min	Robust Combinatorial Optimization II. <i>Organizer: Agostinho Agra</i>						
	AYSE ARSLAN, Robust Strategic Planning of Phytosanitary Treatments in Agriculture	MARCO SILVA, Exact Solution Algorithms for the Robust Total Tardiness Problem	AGOSTINHO AGRA, A Lagrangean dual model for the robust inventory problem			YASAMAN MOZAFARI, Robust Expansion Planning of Interdependent Electricity, Gas, and Heat	

Salle 30 - Build B - Ground Floor - Zone 5				
Room				
Mo 3:15pm-4:45pm 3x30 min	Risk and Energy Markets, Chair: Julio Deride OLIVIER HUBER, On solving risk-averse equilibrium problems via reformulations	HENRI GERARD, On risk averse competitive equilibrium	JULIO DERIDE, Stochastic General Equilibrium Model with Application to Energy Markets	
Mo 5:00pm-6:30pm 3x20 min	Differentiability, convexity, and modeling in stochastic optimization, Chair: Kai A. Spuerkel HOLGER HEITSCH, Stochastic optimization with probabilistic/robust (proburst) constraints	PEDRO PEREZ-AROS, Subdifferential characterization of probability functions	KAI SPUERKEL, Strong Convexity in Stochastic Programming with Deviation Risk Measures	
Tu 8:30am-10:30am 4x30 min	Algorithmic Game Theory I, Organizer: Luce Brotcorne VICTOR BUCAREY, Solving Strong Stackelberg Equilibrium in Stochastic Games	FRANK PLEIN, Models for the single-minded bundle pricing problem	CONCEPCION DOMINGUEZ, Branch-and-cut algorithm for the Rank Pricing problem	YURY KOCHETOV, A matheuristic for the bilevel 0-1 public-private partnership problem
Tu 3:15pm-4:45pm 3x30 min	Game Theory and Energy Markets, Chair: Didier Ausseil ANTON SVENSSON, Constraint qualifications for parametrized optimization problems and applications	LÉONARD VONNIEDERHÄUSERN, TrEMa: A Trilevel Energy Market Model	DIDIER AUSSSEL, Electricity market model with elastic demand	
We 8:30am-10:30am 4x30 min	Risk and Financial Markets, Chair: Markku J Kallio STEFANO NASINI, Bilevel programming approach for investment strategies under intermediation	YANG ZHAN, A smooth path-following method for computing equilibria in incomplete markets	MARKKU KALLIO, Cooperative Mitigation of Contagion in Financial Networks	ZHENYU HU, Stable Risk Sharing and Its Monotonicity
We 3:15pm-4:45pm 3x30 min	Nonconvex and Complex Problems in Multiobjective Optimization, Chair: Gabriele Eichfelder GABRIELE EICHFELDER, A Trust Region Method for Heterogeneous Multiobjective Optimization	ELIZABETH KARAS, Multiobjective programming via bundle methods	TOMMASO LEVATO, Sparse multiobjective optimization via concave approximations	
We 5:00pm-6:30pm 3x30 min	Aspects of Multiobjective Combinatorial Optimization, Organizer: Matthias Ehrgott SERPIL SAYIN, Generating Representative Sets for Multiobjective Discrete Optimization Problems	KIM ANDERSEN, A multi-objective approach to sensitivity analysis of MILP	FRITZ BÖKLER, Approximating the Multiobjective Shortest Path Problem in Practice	
Th 8:30am-10:30am 4x30 min	Stackelberg Games, Chair: Stefano Coniglio JEAN-BERNARD EYTARD, Tropical geometry applied to bilevel programming	STEFAN WALDHERR, Bilevel Programming for Combinatorial Exchanges with Budget Constraints	STEFANO CONIGLIO, Computing Pessimistic Leader-Follower Equilibria with Multiple Followers	FRANCESCO CARUSO, A learning approach for selection of subgame perfect Nash equilibria
Th 3:15pm-4:45pm 3x30 min	Generation and Representation Algorithms in Multiobjective Optimization, Organizer: Michael Stiglmayr BRITTA SCHULZE, On a Polynomial Bound in Multiobjective Unconstrained Combinatorial Optimization	KATHRIN KLAMROTH, Efficient Representation of the Search Region and Generic Algorithms in MOCO	MICHAEL STIGLMAYR, Representation of the non-dominated set of multiobjective optimization problems	
Th 5:00pm-6:30pm 3x20 min	Topics in multistage stochastic optimization, Chair: Felipe Beltrán MIN ZHANG, Risk Minimization, Regret Minimization and the Progressive Hedging Algorithm	DAVID HEMMI, Recursive Evaluate and Cut for combinatorial Multistage Programs	FELIPE BELTRÁN, Stochastic dual dynamic programming with Chebyshev centers	
Fr 8:30am-10:30am 4x30 min	Algorithmic Game Theory II, Chair: Margarida Carvalho ANIA HUBER, Efficient Black-Box Reductions for Separable Cost Sharing	MARTON BENEDEK, Finding and verifying the nucleolus of cooperative games	CHUANGYIN DANG, Perfect d-Proper Equilibrium and Its Determination	MARGARIDA CARVALHO, Kidney Exchange Game
Fr 3:15pm-4:45pm 3x30 min	Scalarization, representation and the comparison of methods in Multiobjective Optimization, Chair: Tyler Perini KENZA OUFASKA, New scalarization technique for solving multi-objective problems	TYLER PERINI, Approximation of the frontier for a biobjective MIP: comparison between methods	KATERYNA MUTS, Multi-Objective Optimization for the Compiler of Hard Real-Time Systems	
Fr 5:00pm-6:30pm 3x20 min	Topics in stochastic optimization, Chair: Quentin Mercier SAKINA MELLOUL, Flexible Multi-choice Goal Programming with Fuzzy Data	KERSTIN LUX, Optimal inflow control in supply systems with uncertain demands	QUENTIN MERCIER, A descent algorithm for stochastic multiobjective optimization problems	

Room				Salle 31 - Build B - Ground Floor - Zone 5			
Mo	3:15pm-4:45pm 3x30 min	Approximate dynamic programming. <i>Organizer:</i> David Brown					
		MARTIN HAUGH, Information Relaxation Bounds for Partially Observed Markov Decision Processes	HUSEVIN TOPALOGLU, Approximate Dynamic Programming for Dynamic Assortment Optimization	DAVID BROWN, Approximations to Stochastic Dynamic Programs via Information Relaxation Duality			
Mo	5:00pm-6:30pm 2x30 min	Learning and dynamic programming. <i>Chair:</i> Boxiao Chen					
		MANU GUPTA, A unifying computation of Whittle's Index for Markovian bandits	JOSE NINO-MORA, A verification theorem for indexability of real-state restless bandits				
Tu	8:30am-10:30am 4x30 min	Algorithms for stochastic games : new approaches. <i>Organizer:</i> Hugo Gimbert					
		MARCIN JURDZINSKI, Quasi-polynomial algorithms for solving parity games	ANTONIN KUCERA, One-Counter Stochastic Games with Zero-Reachability Objectives	MARCELLO MAMINO, Around tropically convex constraint satisfaction problems.	MATEUSZ SKOMRA, The condition number of stochastic mean payoff games		
Tu	3:15pm-4:45pm 3x30 min	Market places and dynamic programming. <i>Chair:</i> Dan A Iancu					
		GONZALO ROMERO, Revenue Management with Repeated Customer Interactions	BOXIAO CHEN, Dynamic Inventory Control with Stockout Substitution and Demand Learning	DAN IANCU, Revenue Losses From Income Guarantees in Centralized Allocation Systems			
We	3:15pm-4:45pm 2x30 min	Dynamic programming applications. <i>Chair:</i> Susanne Hoffmeister					
		SUSANNE HOFFMEISTER, Markov Decision Processes for Sport Strategy Optimization	PAOLO SERAFINI, A Model to evaluate the cost-effectiveness trade-off for urologic treatments				
Th	5:00pm-6:30pm 3x30 min	Approximation in dynamic programming. <i>Chair:</i> Philip C Placek					
		WOLF KOHN, Dynamic Programming via a State Abstract Machine and Implementation	PHILIP PLACEK, An Incremental Probability Model for Dynamic Systems	BENOÎT TRAN, A Stochastic Min-plus Algorithm for Deterministic Optimal Control			
Fr	8:30am-10:30am 4x30 min	Advances in theory of dynamic programming. <i>Chair:</i> Stephane L Gaubert					
		MAURICIO JUNCA, On controllability of Markov chains: A Markov Decision Processes approach	ANGELIKI KAMOUTSI, Stochastic Convex Optimization and Regret Bounds for Apprenticeship Learning	NABIL KAHALE, Randomized Dimension Reduction for Monte Carlo Simulations	NIKOLAS STOTT, Dynamic programming over noncommutative spaces applied to switched systems		
Fr	3:15pm-4:45pm 3x30 min	Discrete stochastic dynamic programming. <i>Chair:</i> Adam Narkiewicz					
		VICTOR COHEN, MILP formulations for discrete stochastic optimization (LIMIDs)	AXEL PARMENTIER, LP relaxations for discrete stochastic optimization with variational inference	ADAM NARKIEWICZ, A sequential decision process with stochastic action sets			
Fr	5:00pm-6:30pm 3x30 min	Tractability and approximation algorithms in dynamic programming. <i>Chair:</i> Alexander V. Hopp					
		YANN DUJARDIN, Sample-Based Approximate GMDP Solution with Theoretical Guarantees	GIACOMO NANNICINI, An FPTAS for stochastic DPs with multidimensional action and scalar state	ALEXANDER HOPP, On Friedmann's subexponential lower bound for Zadeh's pivot rule			

Salle 32 - Build B - Ground Floor - Zone 5			
Room			
Mo 3:15pm-4:45pm 3x30 min	Scenario discretization techniques in stochastic optimization. <i>Organizer:</i> Fabian Bastin THUY ANH TA, On a two-stage stochastic optimization problem with stochastic constraints	JULIEN KEUTCHAYAN, Multistage stochastic optimization: discretization of probability distributions	MICHEL GENDREAU, Effective Heuristics for the Short-Term Hydro-Generation Planning Problem
Mo 5:00pm-6:30pm 3x30 min	Distributionally Robust Stochastic Programming: Theory and Applications. <i>Organizer:</i> Ran Ji YILING ZHANG, Ambiguous Chance-constrained Binary Programs Under Mean-covariance Information		
Tu 3:15pm-4:45pm 3x30 min	Distributionally Robust and Stochastic Optimization: A Sampling/Scenario Perspective. <i>Organizer:</i> Guzin Bayraksan ALEXANDER ZOLAN, Optimizing the Design of a Latin Hypercube Sampling Estimator for SAA		
We 8:30am-10:30am 3x30 min	Sampling and stability in stochastic optimization. <i>Chair:</i> Harsha Honnappa EDWARD ANDERSON, Distributional Robustness and Sample Average Approximation	JUN-YA GOTOH, Out-of-sample analysis of distributionally robust optimization	MATTHIAS CLAUS, On stability of stochastic bilevel programs with risk aversion GERARD CORNUEJOLS, From Estimation to Optimization via Shrinkage
We 3:15pm-4:45pm 3x30 min	Learning and Stochastic Programming. <i>Organizer:</i> Matthias Poloczek JUNYI LIU, Asymptotic Results For Two-stage Stochastic Quadratic Programming		
We 5:00pm-6:30pm 4x20 min	Stochastic optimization models and applications. <i>Chair:</i> F-Javier Heredia GEOFFREY OXBERRY, Design optimization under uncertainty	GISLAINE PERICARO, Optimal non-anticipative scenarios for nonlinear hydrothermal power systems	ALEXANDER VINEL, A Generalized Risk Parity Model with Application for Hazmat Transportation F-JAVIER HEREDIA, A multistage stochastic programming model for the optimal bid of a wind producer
Th 8:30am-10:30am 4x30 min	Topics in multistage and integer stochastic optimization. <i>Organizer:</i> Jim Luedtke OZGE SAFAK, Three-Stage Stochastic Airline Scheduling Problem		
Th 3:15pm-4:45pm 3x30 min	Theoretical and practical aspects of decomposition algorithms for multistage stochastic problems: 1. <i>Organizer:</i> Vincent Leclère DAVID WOZABAL, Computing parameter sensitivities for discrete time Markov decision processes		
Th 5:00pm-6:30pm 4x20 min	Theoretical and practical aspects of decomposition algorithms for multistage stochastic problems: 2. <i>Organizer:</i> Vincent Leclère OSCAR DOWSON, The practitioners guide to SDDP: lessons from SDDP.jl		
Fr 8:30am-10:30am 4x30 min	New methods for stochastic optimization and variational inequalities. <i>Chair:</i> Yunxiao Deng ALFREDO IUSEM, Extragradients method for pseudomonotone stochastic variational inequalities		
Fr 3:15pm-4:45pm 3x30 min	Risk-aware decision making. <i>Organizer:</i> Minseok Ryu HIDEAKI NAKAO, Medical Homecare Delivery with Time-dependent Stochastic Travel Time		

Room				Salle 33 - Build B - Ground Floor - Zone 5			
Mo 3:15pm-4:45pm 3x30 min	Distributionally Robust Optimization - New Theory and Applications , <i>Organizer: Zhichao Zheng</i> YINI GAO, Data-Driven Bounded Rationality in Games- A Robust Framework		CAGIL KOCYIGIT, Distributionally Robust Mechanism Design	ZHICHAO ZHENG, Schedule Reliability in Liner Shipping by Distributionally Robust Optimization			
Tu 8:30am-10:30am 3x30 min	Robust Optimization and Operations Mangement , <i>Organizer: Chaithanya Bandi</i> NIKOS TRICHAKIS, Robustness of Static Pricing Policies in the Face of Strategic Customers		VELIBOR MISIC, Interpretable Optimal Stopping	OMAR BESBES, Prior-Independent Optimal Auctions	CHAITHANYA BANDI, Design and Control of Multi-class Queueing Networks via Robust Optimization		
Tu 3:15pm-4:45pm 3x30 min	Recent Advances in Robust Optimization I , <i>Organizer: Phebe Vayanos</i> VISHAL GUPTA, Optimization in the Small-Data, Large-Scale Regime		VELIBOR MISIC, Interpretable Optimal Stopping	PHEBE VAYANOS, Fair, Efficient, and Interpretable Policies for Allocating Scarce Resources			
We 8:30am-10:30am 4x30 min	Robust combinatorial optimization IV , <i>Chair: Arie Koster</i> PEDRO MUNARI, The vehicle routing problem under uncertainty via robust optimization		MARINA LEAL, A time-dependent version of the robust TSP and SPP.	ARIE KOSTER, Scheduling Jobs under Uncertainty: A Customer-oriented Approach	ROBERTO WOLFLER CALVO, Optimizing the electricity production planning with stochastic outage durations		
We 5:00pm-6:30pm 4x20 min	Robust combinatorial optimization III , <i>Organizer: Moritz Mühenthaler</i> MORITZ MÜHLENTHALER, Robust Matching Augmentation		VIKTOR BINDEWALD, Solving Bulk-Robust Assignment Problems to Optimality	FELIX HOMMELSHEIM, Assignment Problems with few Failure Resources	JAEHYEON RYU, Distributionally Robust Chance-Constrained Binary Knapsack Problem		
Th 8:30am-10:30am 3x30 min	New applications of robust optimizations , <i>Chair: Mirjam Duer</i> JORGE VERA, Condition and geometric measures for consistency in intertemporal optimization		ALEC KOPPEL, Compositional Stochastic Optimization with Kernels for Robust Online Learning	MIRJAM DUER, Robust Approach for Stratified Sampling Allocation Problems			
Fr 8:30am-10:30am 3x30 min	New Horizons in Robust Optimization , <i>Organizer: Angelos Georghiou</i> ZHI CHEN, Data-driven Chance Constrained Programs over Wasserstein Balls		KILIAN SCHINDLER, Cardinality-Constrained Clustering and Outlier Detection via Conic Optimization	ANGELOS GEORGHIOU, A robust optimization prospective to decentralized decision making			
Fr 3:15pm-4:45pm 3x30 min	Distributionally Robust Optimization: Models and Applications , <i>Organizer: Selin D Ahipasaoglu</i> BIKRAMIT DAS, Heavy tails in a moment-constrained robust newsvendor model		HENRY LAM, Robust Extreme Event Analysis	SELIN AHIPASAOGLU, Concentration versus Diversification in Portfolio Selection			
Fr 5:00pm-6:30pm 3x30 min	Wasserstein Distributionally Robust Optimization , <i>Organizer: Peyman Mohajerin Esfaha</i> VIET ANH NGUYEN, Risk-Averse Optimization over Structured Wasserstein Ambiguity Set		JOSE BLANCHET, Wasserstein DRO: Modeling and Optimal Choice of Uncertainty Size	PEYMAN MOHAJERIN ESFAHA, Data-driven Inverse Optimization with Imperfect Information			

Room					DENIGES - Build C - Ground Floor - Zone 5				
Mo 1:30pm-2:30pm 1x60 min	Theoretical Analysis of Cutting-Planes in IP Solvers. , <i>Organizer:</i> Gerard Cornuejols SANTANU DEY, Theoretical Analysis of Cutting-Plane Selection in IP Solvers.								
Mo 3:15pm-4:45pm 3x30 min	Preference robust optimization , <i>Organizer:</i> Erick Delage WILLIAM HASKELL, Robust choice with multi-attribute quasi-concave choice functions				JONATHAN LI, Optimizing aspirational preferences when the choice of a measure is ambiguous	ERICK DELAGE, Utility-based Shortfall Risk Models when Preference Information is Incomplete			
Mo 5:00pm-6:30pm 3x30 min	Advances in Adjustable Robust Optimization , <i>Organizer:</i> Do Young Yoon DICK DEN HERTOEG, Robust optimization for models with uncertain SOC and SDP constraints				ERNST ROOS, Approximation of uncertain convex inequalities	DO YOUNG YOON, Monitoring with Limited Information			
Tu 8:30am-10:30am 4x30 min	Risk-averse stochastic programming , <i>Organizer:</i> Andrzej Ruszczyński DARINKA DENTCHEVA, Asymptotics of stochastic optimization problems with composite risk functionals				OZLEM CAVUS, Multi-objective risk-averse two-stage stochastic programming problems	ALEXANDER SHAPIRO, Distributionally robust stochastic programming	ANDRZEJ RUSZCZYNSKI, Risk Disintegration with Application to Partially Observable Systems		
Tu 11:00am-12:00am 1x60 min	Asymptotic Lagrangian duality for nonsmooth optimization , <i>Organizer:</i> Xiaojun Chen REGINA BURACHIK, Asymptotic Lagrangian duality for nonsmooth optimization								
Tu 3:15pm-4:45pm 3x30 min	Recent Advances in Robust Optimization II , <i>Organizer:</i> Wolfram Wiesemann JIANZHE ZHEN, A Robust Optimization Perspective on Bilinear Programming				HUAJIE QIAN, Calibrating Optimization under Uncertainty	WOLFRAM WIESEMANN, The Distributionally Robust Chance Constrained Vehicle Routing Problem			
We 8:30am-10:30am 4x30 min	Chance Constraint and Its Applications , <i>Organizer:</i> Jianqiang Cheng ABDEL LISSER, Joint chance constrained general sum games				JIA LIU, Distributionally robust geometric programs with chance constraints	FRANCESCA MAGGIONI, Bounds for probabilistic constrained problems	JIANQIANG CHENG, Partial Sample Average Approximation Method for Chance Constrained Problems		
We 11:00am-12:00am 1x60 min	Online Competitive Algorithms for Resource Allocation , <i>Organizer:</i> Frank E. Curtis MARYAM FAZEL, Online Competitive Algorithms for Resource Allocation								
We 3:15pm-4:45pm 3x30 min	Dynamic Optimization: Theory and Algorithms , <i>Organizer:</i> Vineet Goyal SHIMRIT SHTERN, A Scalable Algorithm for Two-Stage Adaptive Linear Optimization				BRADLEY STURT, Data-Driven Multi-Stage Adaptive Optimization	VINEET GOYAL, Optimal Approximation via Affine Policies for Two-stage Robust Optimization			
We 5:00pm-6:30pm 3x30 min	Stochastic Programming and Distributionally Robust Optimization Models with Endogenous Uncertainty , <i>Organizer:</i> Miguel Lejeune NILAY NOYAN, Distributionally Robust Optimization with Decision-Dependent Ambiguity Set				KARTIKEY SHARMA, Optimization Under Decision-dependent Uncertainty	MIGUEL LEJEUNE, Chance-Constrained Optimization Models with Endogenous and Exogenous Uncertainty			
Th 8:30am-10:30am 4x30 min	New results in chance-constrained optimization , <i>Chair:</i> Bismark Singh ABEBE GELETU, Smoothing Methods for Chance Constrained Optimization of Elliptic PDE Systems				RENÉ HENRION, Dynamic chance constraints under random distribution	ARMIN HOFFMANN, Differentiability of joint chance constraints under weakened LICQ	BISMARK SINGH, Approximating Chance Constrained Programs using Classical Inequalities		
Th 11:00am-12:00am 1x60 min	Effective Scenarios and Scenario Reduction for Risk-Averse Stochastic Programs , <i>Organizer:</i> Jim Luedtke TITO HOMEM-DE-MELLO, Effective Scenarios and Scenario Reduction for Risk-Averse Stochastic Programs								
Th 3:15pm-4:45pm 3x30 min	Distributionally Robust Optimization With Marginals and Cones , <i>Organizer:</i> Divya Padmanabhan LOUIS CHEN, Distributionally Robust Linear and Discrete Optimization with Marginals				GUANGLIN XU, A Copositive Approach for Decision Rule Approximations of Multi-Stage RO	DIVYA PADMANABHAN, Tractable Solutions to Distributionally Robust Optimisation			
Th 5:00pm-6:30pm 3x30 min	Robust Optimization under Data Uncertainty , <i>Organizer:</i> Omid Nohadani MATTHIAS EHRGOTT, Uncertain Data Envelopment Analysis				SOROOSH SHAFIEEZADEH, Wasserstein Distributionally Robust Kalman Filtering	ZHENZHEN YAN, Appointment Scheduling Under Time-Dependent Patient No-Show Behavior			
Fr 8:30am-10:30am 4x30 min	Theoretical and practical aspects of decomposition algorithms for multistage stochastic problems: 3 , <i>Organizer:</i> Vincent Leclère DAVID MORTON, Distributionally Robust Dual Dynamic Programming				ANDY SUN, Stochastic dual dynamic integer programming	REGAN BAUCKE, A deterministic algorithm for solving stochastic minimax dynamic programmes	VINCENT LECLÈRE, Exact converging bounds for Stochastic Dual Dynamic Programming		
Fr 11:00am-12:00am 1x60 min	Submodularity in mixed-integer quadratic and conic quadratic optimization , <i>Organizer:</i> Daniel Bienstock ALPER ATAMTURK, Submodularity in mixed-integer quadratic and conic quadratic optimization								
Fr 3:15pm-4:45pm 3x30 min	Distributionally Robust Optimization , <i>Organizer:</i> Daniel Kuhn NAPAT RUJEERAPAIBOON, Chebyshev Inequalities for Products of Random Variables				JOHANNES ROYSET, Variational Theory for Optimization under Stochastic Ambiguity	DANIEL KUHN, Distributionally Robust Inverse Covariance Estimation			

Salle 22 - Build G - 2nd floor - Zone 6				
Room				
Mo 3:15pm-4:45pm 2x30 min	Implementation of interior-point methods for large-scale problems and applications I , <i>Organizer:</i> Jordi Castro JOSE HERSKOVITS, A feasible direction interior point algorithm for linear programming			
	STEFANO NASINI, A specialized interior-point algorithm for very large minimum cost flows in bipa			
Mo 5:00pm-6:30pm 4x20 min	Sparsity, variable selection and efficient algorithms , <i>Chair:</i> Alex Sholokhov SAM TAJBAKHSH, Distributed algorithms for statistical learning with structured sparsity			
	JEAN PAUPHILET, Sparse regression: Scalable algorithms and empirical performance	ALEX SHOLOKHOV, Sparsified Huge-Scale Optimization for Regularized Regression Problems	ZIXIN SHEN, Forward stepwise variable selection based on relative weights	
Tu 8:30am-10:30am 4x30 min	Pricing , <i>Chair:</i> Anastasiya Ivanova ANASTASIYA IVANOVA, Distributed price adjustment for the resource allocation problem			
	YESMINE ROUIS, Price forecasting with machine learning algorithms for recommerce activities	SARA CALLEJA, Volume forecasting with machine learning algorithms for recommerce activities	SPYROS ZOUMPOULIS, Optimal Pricing and Introduction Timing of New Virtual Machines	
Tu 3:15pm-4:45pm 2x30 min	Learning for mixed integer optimization , <i>Chair:</i> Hari Bandi HARI BANDI, Learning a Mixture of Gaussians via Mixed Integer Optimization			
	TAKANORI MAEHARA, Learning for Tuning Parameters of NUOPT MILP Solver			
We 8:30am-10:30am 4x30 min	Numerically Efficient Methods for Piecewise Algorithmic Differentiation I , <i>Organizer:</i> Torsten F Bosse SRI HARI NARAYANAN, Study of the numerical efficiency of structured abs-normal forms			
	TORSTEN BOSSE, (Almost) Matrix-free solver for piecewise linear functions in Abs-Normal form	ANDREAS GRIEWANK, An active signature method for piecewise differentiable/linear optimization.	ANGEL ROJAS, Solving l_1 regularized min-max problems by successive piecewise linearization	
We 3:15pm-4:45pm 3x30 min	Structure Detection in Integer Programming , <i>Organizer:</i> Taghi Khaniyev TAGHI KHANIYEV, Automatic structure detection in mixed integer programs			
	MICHAEL BASTUBBE, Modular Detection of Model Structure in Integer Programming	JONAS WITT, A Computational Investigation on Generic Cutting Planes in Branch-Price-and-Cut		
We 5:00pm-6:30pm 2x20 min	Large-scale convex optimization , <i>Chair:</i> Alexander V. Rogozin ALEXANDER ROGOZIN, Optimal distributed convex optimization on slowly time-varying graphs			
	TOMMASO COLOMBO, Leverage data structure to improve Stochastic Gradient Descent algorithm			
Th 8:30am-10:30am 4x30 min	Numerically Efficient Methods for Piecewise Algorithmic Differentiation II , <i>Organizer:</i> Torsten F Bosse LAURENT HASCOET, Pushing the Algorithmic Differentiation tool Tapenade towards new languages			
	PETER STECHLINSKI, Generalized Sensitivity Analysis of Nonlinear Programs	KAMIL KHAN, Evaluating generalized derivatives efficiently for nonsmooth composite functions	LISA HEGERHORST, Optimality Conditions for Nonsmooth Constrained Optimization Problems	
Th 3:15pm-4:45pm 3x30 min	High-Performance Computing in Optimization II , <i>Chair:</i> Joaquim Dias TIMOTEJ HRGA, High-Performance Solver for Binary Quadratic Problems			
	BRIAN DANDURAND, Bilevel optimization approaches for power system security	JOAQUIM DIAS GARCIA, Genesys: Simulating Power Systems by Solving Millions of MIPs		
Th 5:00pm-6:30pm 4x20 min	Ranking and recommendation , <i>Chair:</i> Aleksandra Burashnikova ALEKSANDRA BURASHNIKOVA, Learning Online Ranking Models with a Sequential Optimization Algorithm			
	IBRAHIM MUTER, Integrating Individual and Aggregate Diversity in Top-N Recommendation	ENGIN TAS, A stochastic gradient descent algorithm for learning to rank	JOSE DULA, The Recommender Problem with Convex Hulls	
Fr 8:30am-10:30am 4x30 min	New Developments in Optimization , <i>Organizer:</i> Robert Fourer STEVEN DIRKSE, Enhanced Model Deployment and Solution in GAMS			
	DAVID GAY, Adding Functions to AMPL	PAUL KERR-DELWORTH, Optimization Modeling in MATLAB	YOUNGDAE KIM, Efficient model generation for decomposition methods in modeling languages	
Fr 3:15pm-4:45pm 3x30 min	Optimization in Energy , <i>Chair:</i> Andrea Simonetto CHRISTIANO LYRA, Upstream-downstream dynamic programming for optimization of tree-shaped flows			
	MILENA PETKOVIC, Mathematical Programming for Forecasting Supplies and Demands in Gas Networks	ANDREA SIMONETTO, Time-varying optimization: algorithms and engineering applications		

Room				Salle AURIAC - Build G - 1st floor - Zone 6			
Mo 3:15pm-4:45pm 3x30 min	Theory and Methods for ODE- and PDE-Constrained Optimization 1 , <i>Chair: Carl M Greiff</i> BEHZAD AZMI, On the Barzilai-Borwein step-sizes in Hilbert spaces	BENJAMIN HORN, Shape Optimization with Stress Constraints for Frictional Contact Problems	CARL GREIFF, Quadratic programming for time-optimal control in differentially flat systems				
Mo 5:00pm-6:30pm 4x20 min	Advances in optimization methods for time dependent problems:I , <i>Organizer: Matthias Heinkenschloss</i> MIHAI ANITESCU, Exponentially convergent receding horizon constrained optimal control	CARL LAIRD, Parallel strategies for DAE optimization with direct Schur-complement decomp.	JOHANNES HAUBNER, Shape optimization for unsteady fluid-structure interaction	MATTHIAS HEINKENSCHLOSS, A parallel-in-time gradient-type method for optimal control problems			
Tu 8:30am-10:30am 4x30 min	Optimization Methods for PDE Constrained Problems , <i>Organizer: Michael Ulbrich</i> ANTON SCHIELA, An affine covariant composite step method with inexact step computations	SEBASTIAN GARREIS, Optimal Control under Uncertainty: Adaptive Solution with Low-rank Tensors	CARLOS RAUTENBERG, On the optimal control of quasi-variational inequalities	MICHAEL ULBRICH, Inexact bundle methods for nonconvex problems in Hilbert space with applications			
Tu 3:15pm-4:45pm 3x30 min	Optimal Control and PDE Constrained Optimization , <i>Organizer: Hasnaa Zidani</i> DAMIEN ALLONSIUS, Control of semi discretized (in space) systems of parabolic equations.	FRANCESCA CHITTARO, Strong local optimality for generalised L^1 optimal control problems	ZHENG CHEN, Shortest Dubins Paths through Three Points				
We 8:30am-10:30am 4x30 min	Recent Advances in Conic Programming II , <i>Organizer: Sena Safarina</i> RUJUN JIANG, Convex Relaxations for Nonconvex Quadratically Constrained Quadratic Program	SENA SAFARINA, Cone Decomposition Method for Mixed-Integer SOCP arising from tree breeding	GORAN BANJAC, Infeasibility detection in ADMM for convex optimization	MARTA CAVALEIRO, A Simplex-like algorithm for the infimum point w.r.t. the second order cone			
We 3:15pm-4:45pm 3x30 min	Risk-Averse PDE-Constrained Optimization-Methods and Applications , <i>Organizer: Harbir Antil</i> RUEDIGER SCHULTZ, Stochastic Dominance in Elastic Shape Optimization	HARBIR ANTIL, Weighted Sobolev Spaces with Application to Image Processing	DREW KOURI, Smoothing Techniques for Risk-Averse PDE-Constrained Optimization				
We 5:00pm-6:30pm 4x20 min	Advances in optimization methods for time dependent problems II , <i>Organizer: Denis Ridzal</i> STEFAN ULBRICH, Preconditioners for unsteady PDE-constrained optimization and parallel variants	SEBASTIAN GOETSCHEL, Parallel-in-time PDE-constrained optimization using PFASST	ANDREAS POTSCCHKA, Direct Multiple Shooting for parabolic PDE constrained optimization	DENIS RIDZAL, Multigrid-in-time methods for optimization with nonlinear PDE/DAE constraints			
Th 8:30am-10:30am 4x30 min	Optimal Control of Variational Inequalities and Complementarity Systems , <i>Chair: Alexandre Vieira</i> ALEXANDRE VIEIRA, Optimal control of Linear Complementarity Systems	ANNE-THERESE RAULS, Computing a Sub-gradient for the Solution Operator of the Obstacle Problem	AILYN STÖTZNER, Optimal Control of Thermoviscoplasticity	ANNA WALTER, Optimal Control of Elastoplasticity Problems with Finite Deformations			
Th 3:15pm-4:45pm 2x30 min	Theory and Methods for ODE- and PDE-Constrained Optimization 2 , <i>Chair: Johann Schmitt</i> JOHANN SCHMITT, Optimal boundary control of hyperbolic balance laws with state constraints	PALOMA SCHÄFER AGUILAR, Numerical approximation of optimal control problems for conservation laws					
Th 5:00pm-6:30pm 4x20 min	Recent Advances in Conic Programming III , <i>Organizer: Masakazu Muramatsu</i> MAKOTO YAMASHITA, A path-following method for semidefinite programming without Slater condition	TANG PEIPEI, A Majorized Newton-CG ALM for Linearly Constrained Convex Programming	YOSHIO EBIHARA, Analysis of Positive Systems by Semidefinite and Copositive Programming	YUZHU WANG, Acceleration of the Lagrangian-DNN method for a class of QOPs			
Fr 8:30am-10:30am 3x30 min	Optimal Control in Engineering Applications , <i>Chair: Maxime Grangereau</i>	MASOUMEH MOHAMMADI, A Priori Error Estimates for a Linearized Fracture Control Problem	MAXIME GRANGEREAU, Stochastic optimal control of a battery : resolution with McKean-FBSDE	JOHANNA BIEHL, Adaptive Multilevel Optimization of Fluid-Structure Interaction			
Fr 5:00pm-6:30pm 3x30 min	Computer-assisted analyses of optimization algorithms II , <i>Organizer: Adrien Taylor</i> ETIENNE DE KLERK, SDP performance analysis of inexact Newton-type methods for self-concordant func	RILEY BADENBROEK, A Universal Interior Point Method Using Hit-and-Run Sampling	ADRIEN TAYLOR, Worst-case analyses of stochastic gradient-based methods using SDPs				

Salle 23 - Build G - 3rd floor - Zone 6			
Mo 3:15pm-4:45pm 3x30 min	Combinatorial Optimization in Chip Design , <i>Organizer:</i> Stefan Hougardy ULRICH BRENNER, Faster Adder Circuits for Inputs with Prescribed Arrival Times	PASCAL CREMER, BonnCell: Automatic Cell Layout for 7nm Processors	SIAD DABOUL, Provably Fast and Near-Optimum Gate Sizing
Mo 5:00pm-6:30pm 3x30 min	Novel data-driven OR techniques for power system operations and planning , <i>Organizer:</i> Juan M. Morales SALVADOR PINEDA MORENTE, Chronological Time-Period Clustering for Optimal Capacity Expansion Planning	CHRISTOS ORDLOUDIS, Energy and Reserve Dispatch with Distributionally Robust Joint Chance Constraints	JUAN MORALES, Predicting the electricity demand response via data-driven inverse optimization
Tu 8:30am-10:30am 4x30 min	Electric Vehicles and Decarbonization , <i>Chair:</i> Martim Joyce-Moniz PAOLO PISCIELLA, A techno-economic analysis of the impact of decarbonization	FRANCISCO MUNOZ, Equilibrium Analysis of a Carbon Tax With Pass-through Restrictions	DANIEL OLIVARES, Management of EV Charging Stations under Advance Reservations Schemes MARTIM JOYCE-MONIZ, Increasing electric vehicle adoption via strategic siting of charging stations
Tu 3:15pm-4:45pm 3x30 min	Supply Chain and Lot Sizing , <i>Chair:</i> Simon Thevenin SIXIANG ZHAO, Decision Rule-based Method for Flexible Multi-Facility Capacity Planning Problem	KEREM AKARTUNALI, Two-Period Relaxations for Big-Bucket Lot-Sizing: Polyhedra and Algorithms	SIMON THEVENIN, Scenario based stochastic optimization for the multi-echelon lot-sizing problem
We 8:30am-10:30am 4x30 min	Energy-aware planning and scheduling 1 , <i>Organizer:</i> Sandra U. Ngueveu SOPHIE DEMASSEY, Robust optimisation of storage in a power generation expansion planning problem	PETER PFLAUM, Microgrid Energy Flexibility Optimization – 3 use cases	PAOLO GIANESSI, ILP models for the job-shop scheduling problem with energy consideration SANDRA U. NGUEVEU, Decomposition method in a scheduling problem with energy storage and costs
We 3:15pm-4:45pm 3x30 min	Conic Optimization and Power Systems , <i>Organizer:</i> Jakub Marecek ARVIND RAGHUNATHAN, Degeneracy in Chordal Decomposition of Semidefinite Programs	JAKUB MARECEK, When to switch from a convex relaxation to Newton's method on the non-convex POP	KONSTANTIN TURITSYN, Convex restrictions of power flow feasibility sets
We 5:00pm-6:30pm 3x30 min	Energy Market Models , <i>Chair:</i> Sauleh A Siddiqui THOMAS KLEINERT, Global Optimization of Multilevel Electricity Market Models	EMRE CELEBI, Co-optimization Models with Market-Clearing Equilibrium: A Robust Approach	SAULEH SIDDIQUI, Solving Problems with Equilibrium Constraints Applied to Energy Markets
Th 8:30am-10:30am 4x30 min	Unit Commitment Problem and Applications , <i>Organizer:</i> Tiziano Parriani ALLEGRA DE FILIPPO, Off-line/on-line optimization under uncertainty on energy management	DIMITRI THOMOPULOS, A Constrained Shortest Path formulation for the Hydro Unit Commitment Problem	RAFAEL LOBATO, Stochastic Hydrothermal Unit Commitment via Multi-level Scenario Trees TIZIANO PARRIANI, CHP Systems Optimization in Presence of Time Binding Constraints
Th 3:15pm-4:45pm 3x30 min	Progress in Algorithms for Optimal Power Flow Problems II , <i>Chair:</i> Miguel F Anjos ALVARO LORCA, Robust Optimization for the Alternating Current Optimal Power Flow Problem	KSENIA BESTUZHEVA, Global Optimization for Alternating Current Optimal Power Flow	ANDREAS GROTHEY, Optimal Power Flow solver based on HELM
Th 5:00pm-6:30pm 3x30 min	Gas Network and Market Optimization , <i>Organizer:</i> Jonas Schweiger JONAS SCHWEIGER, Foresighted decision support for gas network operation	FELIX HENNINGS, Controlling complex network elements by target values	JULIA GRÜBEL, Nonconvex Equilibrium Models for Gas Market Analysis
Fr 8:30am-10:30am 3x30 min	Scheduling Applications , <i>Chair:</i> Mauricio C. de Souza ATSUKO Ikegami, Generating many optimal solutions in nurse scheduling		DAVAATSEREN BAATAR, Mixed Integer Programming Based Merge Search for Open Pit Block Scheduling MAURICIO DE SOUZA, Surgical scheduling under uncertainty by approximate dynamic programming
Fr 3:15pm-4:45pm 3x30 min	Optimization for Energy System Planning , <i>Chair:</i> Andrew Lu Liu LUIGI BOFFINO, Expansion Planning of a Small Size Electric Energy System	MARION LEMERY, Regaining tractability in SDDP algorithms for large energy planning problems	ANDREW LIU, Capacity Expansion through Decentralized Optimization
Fr 5:00pm-6:30pm 3x30 min	Energy-aware planning and scheduling 2 , <i>Organizer:</i> Christian Artigues PAUL JAVAL, Modelling uncertainties in short-term operational planning optimization	AURÉLIEN FROGER, Solving an electric vehicle routing problem with capacitated charging stations	CHRISTIAN ARTIGUES, Polyhedral approach for a continuous energy-constrained scheduling problem

Salle 21 - Build G - Intermediate - Zone 6			
Mo 3:15pm-4:45pm 3x30 min	Mixed-integer derivative-free optimization , <i>Chair</i> : Clément Royer ANDREW CONN, Underlying algorithms and theory to our approach to MINLP without derivatives	DELPHINE SINOQUET, Benchmark of a trust-region method for solving black-box mixed-integer problems	UBALDO GARCIA PALOMARES, A unified approach for solving mixed integer Box-Constrained optimization
Mo 5:00pm-6:30pm 3x30 min	Advances in DFO I , <i>Chair</i> : Sébastien Le Digabel WARREN HARE, Calculus Rules of the Simplex Gradient	MIGUEL MUNOZ ZUNIGA, Derivative free global Optimization with categorical-continuous variables	STEFAN WILD, A Taxonomy of Constraints for Blackbox-Based Optimization
Tu 8:30am-10:30am 4x30 min	Bayesian and Randomized Optimization II , <i>Chair</i> : Youssef Diouane NATHALIE BARTOLI, Adaptive modeling strategy for high-dimensional constrained global optimization	ROBERT GRAMACY, Modeling an Augmented Lagrangian for Blackbox Constrained Optimization	VICTOR PICHENY, Bayesian optimization under mixed constraints Zi WANG, Bayesian Optimization Guided by Max-values
Tu 3:15pm-4:45pm 3x30 min	Advances in DFO II , <i>Chair</i> : Warren Hare YVES LUCET, Variable-fidelity derivative-free algorithms for road design	MATT MENICKELLY, Derivative-Free Robust Optimization by Outer Approximations	SÉBASTIEN LE DIGABEL, The Mesh Adaptive Direct Search algorithm for granular and discrete variables
We 8:30am-10:30am 4x30 min	New derivative-free algorithms , <i>Chair</i> : Margherita Porcelli MARGHERITA PORCELLI, Gray-box optimization of structured problems and other new developments in BFO	FRANCESCO RINALDI, Model-based derivative-free methods for nonsmooth black-box functions	LINDON ROBERTS, A flexible, robust and efficient derivative-free solver for least squares ANA CUSTODIO, MultiGLODS: Clever Multistart in Multiobjective Directional Direct Search
We 3:15pm-4:45pm 3x30 min	Surrogate-based algorithms for constrained derivative-free problems , <i>Chair</i> : Phillipe R. Sampaio MANUEL RAMOS-CASTILLO, Optimal agricultural scheduling through MINLP surrogate-based optimization	PHILLIPE SAMPAIO, A global optimization algorithm for derivative-free constrained problems	GEOVANI GRAPIGLIA, Derivative-Free Trust-Region Algorithms for LI, Minimax and Bi-Objective Optimiz
We 5:00pm-6:30pm 3x30 min	Progress in methods and theory of derivative-free optimization , <i>Chair</i> : Serge Gratton CHARLES AUDET, Mesh-based Nelder-Mead algorithm for inequality constrained optimization	JEFFREY LARSON, Manifold Sampling for Nonconvex Optimization of Piecewise Linear Compositions	MORTEZA KIMIAEL, Competitive derivative-free optimization with optimal complexity
Th 8:30am-10:30am 4x30 min	Bayesian and Randomized Optimization I , <i>Chair</i> : Stefan M Wild MICKAEL BINOIS, Improving Bayesian optimization via random embeddings	SAUL TOSCANO-PALMERIN, Bayesian Optimization of Expensive Integrands	CLÉMENT ROYER, Using Models in Allocation and Partition Algorithms YOUSSEF DIOUANE, A Rigorous Framework for Efficient Global Optimization
Th 5:00pm-6:30pm 3x30 min	Advances in DFO III , <i>Chair</i> : Juan C Meza JAN FEILING, Utilizing Non-Commutative Maps in Derivative-Free Optimization	RICHARD CARTER, Generalization of DIRECT algorithm supporting interactive problem redefinition	JUAN MEZA, Pattern Search Methods With Surrogates for Surface Structure Determination
Fr 8:30am-10:30am 4x30 min	Challenging applications in DFO , <i>Chair</i> : Francesco Rinaldi A ISMAEL VAZ, Global Direct Search and an application to Additive Manufacturing (3D Printing)	STEFANO LUCIDI, Derivative-free methods for complex black-box problems	STEVEN GARDNER, Parallel Hybrid Multi-objective Derivative-Free Optimization for Machine Learning LUKAS ADAM, Robust multi-objective optimization: Application to the recycling of plastics
Fr 3:15pm-4:45pm 3x30 min	Advances in DFO IV , <i>Chair</i> : Katya Scheinberg KRZYSZTOF CHOROMANSKI, New methods for blackbox optimization via structured gradient estimation	KATYA SCHEINBERG, Scaling up and Randomizing Derivative Free Optimization for Machine Learning	PRASHANT PALKAR, Globally Convergent Simulation-Based Optimization with Integer Variables
Fr 5:00pm-6:30pm 2x30 min	Derivative-free global optimization algorithms , <i>Chair</i> : Zaikun Zhang LIMENG LIU, Optimization with global surrogate and trust-region assisted local search	ANNE AUGER, Benchmarking Bayesian, Derivative-Free, and Stochastic Blackbox Algorithms	

Salle 20 - Build G - 1st floor - Zone 6			
Mo 3:15pm-4:45pm 3x30 min	Using SDP relaxations and solving them faster , <i>Organizer: Elisabeth Gaar</i> SAMUEL BURER, Exact SDPs for a Class of (Random and Non-Random) Nonconvex QCQPs	NICOLO GUSMEROLI, SDP Based Solution Methods for Binary Quadratic Problems	YUZIXUAN ZHU, Sieve-SDP: A simple facial reduction algorithm to preprocess SDPs
Mo 5:00pm-6:30pm 3x30 min	Solving large scale convex composite programming , <i>Organizer: Kim-Chuan Toh</i> KIM-CHUAN TOH, A block symmetric Gauss-Seidel decomposition theorem for convex composite QP	XIN YEE LAM, Fast algorithms for large scale generalized distance weighted discrimination	YANGHENG YUAN, An Efficient Semismooth Newton Based Algorithm for Convex Clustering
Tu 8:30am-10:30am 4x30 min	Algebraic and geometric aspects of semidefinite programming , <i>Organizer: Hamza Fawzi</i> JAMES SAUNDERSON, Certificates of polynomial nonnegativity via hyperbolic optimization	XAVIER ALLAMIGEON, Log-barrier interior point methods are not strongly polynomial	AMY WIEBE, Slack ideals of polytopes DOGYOON SONG, Measuring Optimality Gap in Conic Programming Approximations with Gaussian Width
Tu 3:15pm-4:45pm 3x30 min	Recent Advances in Conic Programming I , <i>Organizer: Makoto Yamashita</i> BISSAN GHADDAR, Strong and Cheap SDP and SOCP Hierarchies for Polynomial Optimization	SUNYOUNG KIM, BP: a Matlab package based on the Bisection and Projection method for POPS	DAVID PAPP, Sum-of-squares optimization with and without semidefinite programming
We 8:30am-10:30am 4x30 min	Theory and algorithms in conic linear programming 2 , <i>Organizer: Gabor Pataki</i> MASAKAZU MURAMATSU, An extension of Chubanov's algorithm to symmetric cone programming	JOACHIM DAHL, Extending MOSEK with exponential cones	STEFAN SREMAC, Primal Facial Reduction in Semidefinite Programming and Matrix Completions BRUNO LOURENCO, Amenable cones: bridging error bounds and facial reduction
We 3:15pm-4:45pm 3x30 min	SDP approaches to combinatorial and global optimization problems , <i>Organizer: Etienne De Klerk</i> SAMUEL GUTEKUNST, Semidefinite Programming Relaxations of the Traveling Salesman Problem	HAO HU, On Solving the Quadratic Shortest Path Problem.	AHMADREZA MARANDI, SDP relaxations of polynomial optimization problems with chordal structure
We 5:00pm-6:30pm 3x30 min	Noncommutative polynomial optimization: semidefinite relaxations, free convexity and applications to quantum information I , <i>Organizer: Monique Laurent</i> MARKUS SCHWEIGHOFER, Inclusion of spectrahedra, free spectrahedra and coin tossing	TOM-LUKAS KRIEL, Matrix convex sets and matrix extreme points	JANEZ POVH, Extracting optimisers by non-commutative GNS construction is robust
Th 8:30am-10:30am 4x30 min	Computer-assisted analyses of optimization algorithms I , <i>Organizer: Adrien Taylor</i> YOEL DRORI, Efficient First-order Methods for Convex Minimization: A Constructive Approach	DONGHWAN KIM, Optimized first-order method for decreasing gradient of smooth convex functions	BRYAN VAN SCOY, The Fastest Known First-Order Method for Smooth Strongly Convex Minimization LAURENT LESSARD, Analysis of First-Order Algorithms for Distributed Optimization
Th 5:00pm-6:30pm 4x20 min	Global Optimization 3 , <i>Chair: Jean-Baptist Hiriart-Urruty</i> JAROMIL NAJMAN, Tighter McCormick relaxations through subgradient propagation in a BaB framework	SIMON BOULMIER, Nonlinear branch-and-bound improvements for global optimization	MESTER ABIGÉL, JAVA implementation of a modular, population based global optimizer package TIAGO MONTANHER, A rigorous MINLP solver using interval unions
Fr 8:30am-10:30am 4x30 min	Copositive and completely positive optimization , <i>Organizer: Olga Kuryatnikova</i> PETER DICKINSON, A New Certificate For Copositivity	MARKUS GABL, Copositive Approach to adjustable robust optimization	JUAN VERA, Using Binary Programming to solve Copositive Optimization Problems OLGA KURYATNIKOVA, Copositive certificates of non-negativity for polynomials on unbounded sets
Fr 3:15pm-4:45pm 3x30 min	Global Optimization 2 , <i>Chair: Mirjam Duer</i> CHRISTIAN FÜLLNER, Deterministic upper bounds in global minimization with equality constraints	ANDREI ORLOV, Nonconvex Optimization Approach to Equilibrium and Bilevel Problems	TATIANA GRUZDEVA, On Solving the General Fractional Problem via D.C. Optimization
Fr 5:00pm-6:30pm 3x30 min	Global Optimization 1 , <i>Chair: Jean-Baptist Hiriart-Urruty</i> FABIO SCHOEN, New clustering methods for large scale global optimization	SERGIY BUTENKO, Continuous Approaches to Cluster-Detection Problems in Networks	JULIO GONZÁLEZ-DÍAZ, Computational advances in the RLT algorithms: A freely available implementation

Salle 24 - Build G - 3rd floor - Zone 6			
Mo 3:15pm-4:45pm 3x30 min	Topics in power systems, Organizer: Alberto J Lamadrid GIULIA DE ZOTTI, Consumers Flexibility Estimation at the TSO Level for Balancing Services	JOSHUA TAYLOR, Decentralized control of DC-segmented power systems	ALBERTO LAMADRID, Response to Disruptions in Electricity with Stochastic Microgrids
Mo 5:00pm-6:30pm 3x30 min	Structure and Learning in Power Grid Optimization, Organizer: Deepjyoti Deka GAL DALAL, Chance-Constrained Outage Scheduling using a Machine Learning Proxy	SIDHANT MISRA, Statistical Learning For DC Optimal Power Flow	APURV SHUKLA, Non-Stationary Streaming PCA
Tu 8:30am-10:30am 4x30 min	Risk Models for Electricity Markets, Chair: Michael C Ferris DANIEL RALPH, Risky Capacity Equilibrium Models for risk averse investment equilibria	RYAN CORY-WRIGHT, Payment mechanisms, efficiency savings and risk-aversion in electricity markets	FABIO MORET, Risk and Information Sharing in Peer-to-Peer Electricity Markets MICHAEL FERRIS, Dynamic Risked Equilibrium for Energy Planning
Tu 3:15pm-4:45pm 3x30 min	Optimization Models for Renewable Energy Integration 2, Chair: Michel Denault CRISTINA CORCHERO, A MIP formulation of a Hybrid AC-DC offshore wind power plant topology	KRISTINA JANZEN, Optimal Design of a Decentralized Energy Network including Renewable Energies	MICHEL DENAULT, Approximate dynamic programming for hydropower optimization
We 8:30am-10:30am 4x30 min	Distribution and Demand Flexibility, Chair: Golbon Zakari ALEJANDRO ANGULO, A Data-Driven Robust Power Management in Active Distribution Systems	ANJA HÄHLE, Exploiting Flexibility in Loads for Balancing Power in Electrical Grids	PAULIN JACQUOT, Analysis of a Routing Game Model for Demand Side Management GOLBON ZAKERI, Demand response in electricity markets
We 3:15pm-4:45pm 2x30 min	Emerging Energy Markets, Organizer: Dennice F. Gayme MARYAM KAMGARPOUR, Designing coalition-proof mechanisms - the case of electricity markets	SEAN MEYN, Irrational Agents and the Power Grid	
We 5:00pm-6:30pm 4x20 min	Location and Routing, Chair: Mustapha Oudani IMEN BEN MOHAMED, Stochastic Two-echelon Location-Routing	RASUL ESMAELBEIGI, Benders decomposition for a hierarchical facility location problem	NICOLAS KÄMMERLING, Benders Decomposition for Uncertain Hub Location with Variable Allocation MUSTAPHA OUDANI, The Incomplete Hub Location and Routing Problem
Th 8:30am-10:30am 4x30 min	Mining Applications, Organizer: Alexandra M Newman MARCOS GOYCOOLEA, Lane's Algorithm Revisited	PETER MALKIN, A MILP-based approach for loader assignment in open pit scheduling	LEVENTE SIPEKI, Optimal Selection of Support Pillars in an Underground Mine ALEXANDRA NEWMAN, Mathematical Methods for Complex Underground Design and Scheduling Problems
Th 3:15pm-4:45pm 3x30 min	Electricity Generation Scheduling and Dispatch, Chair: Christophe Duhamel BESTE BASCIFTCI, Data-Driven Generator Maintenance and Operations Scheduling under Uncertainty	DIEGO JIMENEZ, A Network Flow-Based MILP Formulation for the Thermal Unit Commitment Problem	CHRISTOPHE DUHAMEL, solving the Short-term Hydrothermal Scheduling problem with linearizations
Th 5:00pm-6:30pm 3x20 min	Vehicle Routing III, Chair: Raquel Bernardino RAQUEL BERNARDINO, A hybrid algorithm for the family traveling salesman problem	ROGHAYEH HAJZADEH, Snow removal: Modeling and bounds by relaxation, heuristic and branch-and-bound	VITOR NESELLO, Column Generation Based Local Search for Pickup-and-Delivery problems
Fr 8:30am-10:30am 3x30 min	Power Systems Models with Discrete Decision Variables, Organizer: Adolfo R Escobedo KAI PAN, Co-optimizing Energy and Ancillary Services	HARSHA GANGAMMANAVAR, Stochastic Framework for Coordinated Operation of Multiple Microgrids	ADOLFO ESCOBEDO, Generation of Angular Valid Inequalities for Transmission Expansion Planning
Fr 3:15pm-4:45pm 3x30 min	Vehicle Routing II, Chair: Chris N Potts EDUARDO UCHOA, A Branch-Cut-and-Price Algorithm for the TSP with Hotel Selection	CHRIS POTTS, Models and Algorithms for Dynamic Workforce Scheduling and Routing	STEFAN SCHAUDT, Delivery robots, a transport innovation for the last mile
Fr 5:00pm-6:30pm 3x20 min	Stochastic Methods for Energy Optimization, Chair: Tristan Rigaut CLARA LAGE, Stabilization of Price Signals in Energy Optimization	GUILHERME MATUSSI RAMALHO, Stochastic Unit Commitment Problem: an Exact Probabilistic Constrained Approach	TRISTAN RIGAUT, Long term management of energy storage using stochastic optimization

Salle 18 - Build I - 1st floor - Zone 7			
Mo 3:15pm-4:45pm 3x30 min	Advances in Linear, Non Linear and Mixed-Integer Optimization, Chair: Hiroshige Dan ERIK MÜHMER, Computational Experiments with Nested Dantzig-Wolfe Decompositions XAVIER SCHEPLER, Restrict-and-fix: a constructive heuristic for mixed-integer programs HIROSHIGE DAN, Automatic Differentiation Software for Indexed Optimization Problems		
Mo 5:00pm-6:30pm 4x20 min	Manufacturing, Chair: Younsoo Lee SÉBASTIEN BERAUDY, Detailed production planning models for semiconductor manufacturing with profit TEUN JANSSEN, Scheduling in the Photolithography Bay HUGO HARRY KRAMER, Column generation and fix-and-optimize for the lot-sizing with remanufacturing YOUNSOO LEE, On the discrete lot-sizing and scheduling problem with sequence-dependent setup		
Tu 8:30am-10:30am 4x30 min	Path and tree problems, Chair: Arthur J Delarue ANDREAS KARRENBauer, Approximate Shortest Paths and Transshipment in Distributed and Streaming Models DMYTRO MATSYPURA, Exact IP-based approaches for the longest induced path problem. KIYOSHI SAWADA, Adding Edges of Short Lengths Incident with the Root to Complete K-ary Tree ARTHUR DELARUE, Travel Time Estimation in the Age of Big Data		
Tu 3:15pm-4:45pm 3x30 min	Optimization software and applications, Chair: Bartolomeo Stellato BARTOLOMEO STELLATO, OSQP: An Operator Splitting Solver for Quadratic Programs NAVJOT KUKREJA, High-level abstractions for checkpointing in PDE-constrained optimisation IVET GALABOVA, A quadratic penalty algorithm for linear programming		
We 8:30am-10:30am 4x30 min	Robust network optimization, Organizer: Dimitri Papadimitriou JOE NAOUM-SAWAYA, Decomposition Approach for Robust Network Interdiction VARUN REDDY, Robust network slice design under correlated demand uncertainties XUDONG HU, Equilibria for Robust Routing of Atomic Players DIMITRI PAPANIMITRIOU, Reliable Multi-level Facility Location Problem (MFLP)		
We 3:15pm-4:45pm 3x30 min	Scheduling in Networks, Chair: Hamish Waterer GRATIEN BONVIN, Global optimization for the pump scheduling problem in drinking water networks AMADEU COCO, Addressing a scheduling problem for planned disruptions on urban road networks HAMISH WATERER, Scheduling of maintenance windows in a mining supply chain railway network		
We 5:00pm-6:30pm 3x20 min	Machine Scheduling 2, Chair: Guopeng Song CRISTIANE FERREIRA, Human-Robot Scheduling in Collaborative Environments MARGAUX NATTAFF, Parallel machine scheduling with time constraints on machine qualifications GUOPENG SONG, The robust machine availability problem		
Th 8:30am-10:30am 3x30 min	High-Performance Computing in Optimization I, Organizer: Kibaek Kim TED RALPHS, Performance Assessment for Parallel MILP Solvers YUI SHINANO, Ubiquity Generator Framework to parallelize state-of-the-art B and B based solvers KIBAEC KIM, Branching Strategies on Decomposition Methods for Mixed-Integer Programming		
Th 3:15pm-4:45pm 3x30 min	Production Planning, Chair: Michel Siemon TOBIAS HOFMANN, ISO-PESP - A PESP Variant for Minimizing the Cycle Time of Production Lines JULIA LANGE, A matheuristic for the blocking job shop problem with a tardiness objective MICHEL SIEMON, Value-based End-to-End Production Planning in Non-Ferrous Metal Industry		
Th 5:00pm-6:30pm 4x20 min	Supply Chain, Chair: Daniel Ramón-Lumbierres WEI HUANG, Using SAP Integrated Business Planning to Optimize Supply Chain FLORIAN FONTAN, Complexity of processing-time dependent profit maximization scheduling problems ABDESSAMAD OUZIDAN, Modelization and optimization of inventory management for palletization DANIEL RAMÓN-LUMBIERRES, A multistage stochastic programming model for the strategic supply chain design		
Fr 8:30am-10:30am 4x30 min	Telecommunications, Organizer: Edoardo Amaldi MICHAL PIORO, An Optimization Model for Quadratic Flow Thinning MATTHIAS ROST, Approximating the Virtual Network Embedding Problem: Theory and Practice CHAFIQ TITOUNA, DDRA: Distributed Detection and Recovery Algorithm for Wireless Sensor Networks EDOARDO AMALDI, On the Virtual Network Embedding problem with substrate network expansion		
Fr 3:15pm-4:45pm 3x30 min	Machine Scheduling 1, Chair: Renan S. Trindade NOAM GOLDBERG, Maximum Probabilistic All-or-Nothing Paths and Critical Chains VITALY STRUSEVICH, Max-Cost Scheduling with Controllable Processing Times and a Common Deadline RENAN TRINDADE, An arc-flow formulation for minimizing makespan on a batch processing machine		
Fr 5:00pm-6:30pm 4x20 min	Transportation networks, Chair: Bernard Gendron PARISA CHARKHGARD, The network maintenance problem YASUFUMI SARUWATARI, Airspace sectorization by set-partitioning approach BIN LI, Joint Transceiver Optimization for Wireless Information and Energy Transfer BERNARD GENDRON, Node-Based Lagrangian Relaxations for Multicommodity Network Design		

Salle 16 - Build I - 2nd floor - Zone 7			
Room			
Mo 3:15pm-4:45pm 3x30 min	Decisions and learning from data. <i>Chair:</i> Christopher McCord CÉDRIC ROMMEL, Gaussian mixture penalization for trajectory optimization problems	CHRISTOPHER MCCORD, Optimization over Continuous Decisions with Observational Data	OSKAR SCHNEIDER, Combining Machine Learning and Optimization: Learning to emulate an expert
Mo 5:00pm-6:30pm 3x20 min	Packing and Capacity Management. <i>Chair:</i> Eugene Zak MARINA ANDRETTA, Solving Irregular Strip Packing Problems with free rotations	ALEXANDRE LE JEAN, A 3D-knapsack problem with truncated pyramids and static stability constraint	EUGENE ZAK, Minimization of sum of inverse sawtooth functions
Tu 8:30am-10:30am 3x30 min	Facility Location. <i>Chair:</i> Ivan Contreras	IVAN CONTRERAS, Exact solution of single source quadratic capacitated location problems	BLAS PELEGRIN, Optimal multi-facility location for competing firms under quantity competition DANIEL SANTOS, A new formulation for the Hamiltonian p-median problem
Tu 3:15pm-4:45pm 3x30 min	Distributed and Asynchronous Learning. <i>Organizer:</i> Ion Necoara ADITYA DEVARAKONDA, Avoiding communication in first-order methods for convex optimization	MARTEN VAN DIJK, On the Expected Convergence of SGD with Large Stepsizes	PUYA LATAFAT, Asynchronous primal-dual proximal algorithms for large-scale optimization
We 8:30am-10:30am 3x30 min	First-Order Methods for Machine Learning. <i>Organizer:</i> Fabian Pedregosa NICOLAS FLAMMARION, Stochastic Composite Least-Squares Regression with convergence rate $O(1/n)$	FABIAN PEDREGOSA, Adaptive Three Operator Splitting	SEBASTIAN STICH, Approximate Composite Minimization: Convergence Rates and Examples
We 3:15pm-4:45pm 3x30 min	Rail and Maritime Transportation. <i>Chair:</i> Kazuhiro Kobayashi KAZUHIRO KOBAYASHI, Accelerated column generation for a ship routing problem with speed optimization	STANLEY SCHADE, Column Generation in Railway Optimization	TATSUKI YAMAUCHI, Optimizing Train Stopping Patterns for Congestion Management
We 5:00pm-6:30pm 3x20 min	Production-Routing. <i>Chair:</i> Feng Gao FENG GAO, Models and Algorithms for Robust Production Routing Under Demand Uncertainty	SARANTHORN PHUSINGHA, Meta-Heuristics for Multi-Period Sales Districting Problem	YUZHUO QIU, Models and Algorithms for Stochastic and Robust Production Routing with Time Win
Th 8:30am-10:30am 4x30 min	Dynamical systems, control and optimization. <i>Chair:</i> Benjamin Recht FREDRIK BAGGE CARLSON, Tangent Space Regularization for Neural-Networks Models of Dynamical Systems	BENJAMIN RECHT, The sample complexity of iteratively learning to control	NIKOLAI MATNI, Optimization-based adaptive control using a system level approach. ASHIA WILSON, Lyapunov arguments in optimization
Th 3:15pm-4:45pm 3x30 min	Robust first order methods. <i>Organizer:</i> Fatma Kilinc-Karzan DIMITRIS PAPALIOPOULOS, Robust distributed learning in the face of adversity	SURIYA GUNASEKAR, Characterizing implicit bias of optimization and its role in generalization	NAM HO-NGUYEN, First-order Framework for Robust Convex Optimization
Th 5:00pm-6:30pm 4x20 min	Advances in Reinforcement Learning Algorithms. <i>Organizer:</i> Lin Xiao MENGDI WANG, Compressive Learning for Sequential Decision Process	SHIPRA AGRAWAL, Posterior sampling for reinforcement learning	LIHONG LI, SBEED learning: Convergent control with nonlinear function approximation ADITHYA M DEVRAJ, Zap Q-Learning: Fastest Convergent Q-learning
Fr 8:30am-10:30am 4x30 min	Dealing with non-convexity. <i>Chair:</i> Leonard Berrada LEONARD BERRADA, Smoothing Piecewise Linear Loss Functions for Deep Learning	DAMEK DAVIS, Convergence rates of stochastic methods for nonsmooth non-convex problems	CONG MA, Implicit Regularization in Non-convex Statistical Estimation NAOKI MARUMO, Provable Convex Minimization under Non-convex Submodular-structured Sparsity
Fr 3:15pm-4:45pm 3x30 min	Discrete methods for data centers and graphs. <i>Organizer:</i> Aaron Archer PHILIPP KELLER, Overcommitment in Cloud Services - Bin Packing with Chance Constraints	AARON ARCHER, Cache-aware load balancing of data center applications via balanced partitioning	SERGEY PUPYREV, Compressing Graphs and Indexes with Recursive Graph Bisection
Fr 5:00pm-6:30pm 2x20 min	Logistics Networks. <i>Chair:</i> El Hassan Laaziz YASUSHI NARUSHIMA, Robust supply chain network equilibrium model with random demands	GUILAUME MARQUES, Method Benchmarking for Two-Echelon Capacitated Vehicle Routing	

Room				
Salle LA4 - Build L - Basement - Zone 8				
Mo 3:15pm-4:45pm 3x30 min	Portfolio Optimization, Chair: Bernardo K. Pagnoncelli LUCA MENCARELLI, A Multiplicative Weights Update Algorithm for Portfolio Selection Problems	BERNARDO PAGNONCELLI, Regularized portfolio optimization with risk measures	SINA YANSORI, Log-optimal portfolios under random horizon	
Mo 5:00pm-6:30pm 3x30 min	Structure from evidence, Organizer: Peter Gritzmann DOUGLAS GONÇALVES, Mathematical Programming in Quantum Information and Computation	JORGE BARRERAS, Detection of Uninformed Experts	PETER GRITZMANN, On constrained flow and multi assignment problems for plasma particle tracking	
Tu 8:30am-10:30am 4x30 min	Interval Global Optimization, Organizer: Frederic Messine TIBOR CSENDES, Nonlinear Symbolic Transformations for Simplifying Functions – Interval Methods	BERTRAND NEVEU, An Interval Branch and Bound Algorithm for Parameter Estimation	DOMINIQUE MONNET, Interval Branch-and-Bound Algorithm for semi-infinite programming	FREDERIC MESSINE, Reliable convex relaxation techniques for interval global optimization codes
Tu 3:15pm-4:45pm 3x30 min	Optimization in Medicine, Organizer: Sebastian Sager MANUEL TETSCHKE, Optimizing the individual treatment of patients with polycythemia vera	NELSON MACULAN, Combinatorial Problems and Models to Help Prevention and Combat Arboviruses	SEBASTIAN SAGER, Towards optimized consolidation (chemo)therapy for acute myeloid leukemia	
We 8:30am-10:30am 3x30 min	Energy markets, Organizer: Martine Labbé	BERNARD FORTZ, Unit Commitment under Market Equilibrium Constraints	MARTIN SCHMIDT, The Impact of Physics on Market Equilibria in Energy Networks	MARTINE LABBÉ, Dynamic programming approach for bidding problems on day-ahead markets
We 3:15pm-4:45pm 3x30 min	Air Transportation and Air Traffic Management, Organizer: Sonia Cafieri AHMED KHASSIBA, A two-stage stochastic model for scheduling aircraft arrivals under uncertainty	FERNANDO DIAS, Aircraft conflict resolution and heading recovery with mixed-integer programming	SONIA CAFIERI, MINLP for aircraft conflict avoidance via speed and heading angle deviations	
We 5:00pm-6:30pm 3x30 min	Resource-constrained assignment and scheduling, Organizer: Fabian Bastin GIORGIO SARTOR, A novel formulation for job-shop scheduling in traffic management	VIPIN VIJAYALAKSHMI, Improving local search for distributed resource allocation and equilibrium.	FABIAN BASTIN, A learning-based approach for multi-skill staffing optimization in call centers	
Th 8:30am-10:30am 4x30 min	Multi-commodity flows, Organizer: Ralf Borndörfer DANIEL GRANOT, Monotonicity and conformality in multicommodity network-flow problems	EDUARDO MORENO, An exact method based on adaptive partitions for the Stochastic Fixed-Charge MCF	STEFANO GUALANDI, Approximate Wasserstein Distances of order 1 between images	RALF BORNDÖRFER, Metric Inequalities for Routings on Direct Connections in Line Planning
Th 3:15pm-4:45pm 3x30 min	Inverse Problems in Physics, Chair: Leo Liberti ANDREAS ALPERS, On the reconstruction of lattices from diffraction data	FABIAN KLEMM, Grain map reconstruction by means of generalized Voronoi Diagrams	LEO LIBERTI, Scientific applications of distance geometry	
Th 5:00pm-6:30pm 4x20 min	Medicine and Metabolic engineering, Chair: Mahdi Doostmohammadi MICHELLE BOECK, Model Predictive Control and Robust Optimization in Adaptive Radiation Therapy	BJÖRN MORÉN, Improving a Dose-Volume Model for HDR Brachytherapy to Reduce Tumour Cold Spots	AMANDA SMITH, New bilevel formulations for optimizing flux bounds in metabolic engineering	MAHDI DOOSTMOHAMMADI, MOMO - Multi-Objective Mixed integer Optimisation for metabolic engineering
Fr 8:30am-10:30am 3x30 min	Finance and Portfolio Optimization, Organizer: Asaf Shupo BENJAMIN HEYMANN, Auction under ROI constraints	GABRIELA KOVACOVA, Time Consistency of the Mean-Risk Problem	ASAF SHUPO, Building Optimal Strategies Using Multi-Objective Optimization	
Fr 3:15pm-4:45pm 3x30 min	Industrial dynamics and Environmental policy, Organizer: Inmaculada Garcia Fernandez ADRIANA PIAZZA, Dynamics of Environmental Policy	NILS-HASSAN QUTTINEH, Challenges in Nutrient Recycling and Biogas Plant Localization	INMACULADA GARCIA FERNANDEZ, Use of dynamic programming in inventory control for perishable products	
Fr 5:00pm-6:30pm 4x20 min	Optimization and Game Theory, Organizer: Veerle Timmermans MATTHIAS FELDOTTO, Computing Approximate Pure Nash Equilibria in Shapley Value Weighted Congestion	COSIMO VINCI, Dynamic taxes for polynomial congestion games	BJOERN TAUER, Competitive Packet Routing	VEERLE TIMMERMANS, Equilibrium Computation in Atomic Splittable Polymatroid Congestion Games

Room				
Salle ARNOZAN - Build Q - Ground Floor - Zone 8				
Mo 3:15pm-4:45pm 3x30 min	Algorithms for optimization and variational problems with possibly nonisolated solutions I, Organizer: Andreas Fischer NICO STRASDAT, A special complementarity function revisited			
	ALEXEY IZMAILOV, Critical solutions of non-linear equations: attraction for Newton-type methods	ANDREAS FISCHER, Local attraction of Newton methods to critical solutions of constrained systems		
Mo 5:00pm-6:30pm 4x20 min	Variational Analysis 4, Organizer: Jo A. Brueggemann JO BRUEGGEMANN, Path-following method for a class of obstacle problems with integral constraints			
	YBOON GARCÍA RAMOS, Nonconvex integration using ϵ -subdifferentials	YAKUI HUANG, A family of two-point step-size gradient methods	KHOA NGUYEN, Proximal alternating direction method of multipliers in the nonconvex setting	
Tu 8:30am-10:30am 4x30 min	Optimization Algorithms and Variational Inequalities I, Organizer: Bo Jiang YU-HONG DAI, Smoothing quadratic regularization method for the hemivariational inequalities			
	DEREN HAN, ADMM for Optimization Problems Involving Nonconvex Functions	XINGJU CAI, ADMM-based methods for monotone inverse variational inequalities	BO JIANG, Vector Transport-Free SVRG with General Retraction for Riemannian Optimization	
We 8:30am-10:30am 4x30 min	Variational Analysis 1, Organizer: Samir Adly ALEXANDRA SCHWARTZ, Second Order Optimality Conditions for Cardinality Constrained Problems			
	HELMUT GFRERER, Stability Analysis for Parameterized Equilibria with Conic Constraints	MICHEL THERA, Stability and Sensitivity Analysis of Parametrized Optimization Problems	SAMIR ADLY, Sensitivity analysis of parameterized nonlinear variational inequalities.	
We 3:15pm-4:45pm 3x30 min	Nash equilibrium and games 1, Organizer: Lorenzo Lampariello ANNA THÜNEN, Solving Multi-Leader-Follower Games			
	JACQUELINE MORGAN, Nash equilibrium: uniqueness and approximation via continuous optimization	MAURO PASSACANTANDO, Fixed point and extragradient algorithms for quasi-equilibria		
We 5:00pm-6:30pm 3x30 min	Interior Point Methods in LP and NLP, Chair: Andre L Tits ANDRE TITS, Constraint-Reduced MPC for CQP, with a Modified Active Set Identification Scheme			
	THIANE COLIBORO, An IPM approach for a time dependent large-scale assortment allocation problem	NGOC NGUYEN TRAN, Local analysis of a primal-dual method for NLP without constraint qualification		
Th 8:30am-10:30am 4x30 min	First-order methods: advances and applications, Organizer: Immanuel M. Bomze AXEL BOEHM, Incremental mirror descent with random sweeping and a proximal step			
	IMMANUEL BOMZE, Active-set identification in Frank-Wolfe variants on the standard simplex	MICHAEL KAHR, Robust StQP, first-order methods, and applications in social network analysis	MATHIAS STAUDIGL, On the convergence of projection free Hessian Barrier-Gradient Algorithms	
Th 5:00pm-6:30pm 4x20 min	Variational Analysis 5, Organizer: David Sossa FRANCISCO JARA-MORONI, A global-local approach for stochastic programs with complementarity constraints			
	MIGUEL SAMA, Conical Regularization of Multiobjective Optimization Problems	DAVID SOSSA, Complementarity problems with respect to Loewnerian cones	CHEE KHIAN SIM, Relaxed Peaceman-Rachford Splitting Method: Convergence Study	
Fr 8:30am-10:30am 4x30 min	Variational Analysis 3, Organizer: Johanna Burtscheidt JOHANNA BURTSCHIEDT, Stability and Small Application of a Risk Averse CP under Uncertainty			
	HONGBO DONG, Variable selection with heredity principles by nonconvex optimization	GORAN LESAJA, Adaptive Full Newton-step Infeasible Interior-Point Method for Sufficient HLCP	HENRI BONNEL, Application of Optimization over the Pareto set in Machine Learning	
Fr 3:15pm-4:45pm 3x30 min	Nash equilibrium and Games 2, Organizer: Giancarlo Bigi LORENZO LAMPARIELLO, Numerically tractable optimistic bilevel problems			
	VADIM SHMYREV, Polyhedral complementarity algorithms for equilibrium problems	GIANCARLO BIGI, Semi-infinite programming via two player generalized Nash games and saddlepoints		
Fr 5:00pm-6:30pm 4x20 min	Variational Analysis 2, Organizer: David Salas BA KHUET LE, Maximal Monotonicity Arising in Nonsmooth Lur'e Dynamical systems			
	EMILIO VILCHES, Lyapunov pairs for perturbed sweeping processes	PARIN CHAIPUNYA, Proximal Algorithms in Hadamard Spaces	DAVID SALAS, Quasi-Variational Inequality problems over product sets	

Room				FABRE - Build J - Ground Floor - Zone 8			
Mo 3:15pm-4:45pm 3x30 min	Distributed Optimization, Organizer: Franck Iutzeler FRANCK IUTZELER, Distributed Optimization with Sparse Communications and Structure Identification		GUANGHUI LAN, Random gradient extrapolation for distributed and stochastic optimization	ALEXANDER GASNIKOV, Distributed Computation of Wasserstein Barycenters over Networks			
Mo 5:00pm-6:30pm 4x20 min	Riemannian geometry in optimization for learning, Organizer: Nicolas Boumal NICOLAS BOUMAL, Global rates of convergence for nonconvex optimization on manifolds		RONNY BERGMANN, A parallel Douglas-Rachford algorithm for data on Hadamard manifolds	PAUL BREIDING, Riemannian optimization for the canonical tensor rank approximation problem	JUNYU ZHANG, Primal-Dual Optimization Algorithms over Riemannian Manifolds		
Tu 8:30am-10:30am 4x30 min	Optimization in Statistical Learning, Organizer: Quentin Berthet JONATHAN WEED, Near-linear time approximation algorithms for optimal transport		ANDREAS ELSENER, Sharp Oracle Inequalities for nonconvex regularized M-estimators	ALEXANDRE D ASPREMONT, Sharpness, Restart and Compressed Sensing Performance	FAN YANG, Towards a deeper understanding of generalization for kernel learning		
Tu 3:15pm-4:45pm 3x30 min	Advances in large-scale machine learning, Organizer: Mark Schmidt FRANCIS BACH, Exponential convergence of testing error for stochastic gradient methods.		VOLKAN CEVHER, Mirrored Langevin Dynamics	ZAID HARCHAOUI, Catalyst Acceleration for Gradient-based Optimization of Structured Models			
We 8:30am-10:30am 4x30 min	Structured Optimization for Machine Learning and Signal Processing, Organizer: Lin Xiao DONALD GOLDFARB, Training neural networks using ADMM for multiaffine constraint		XINHUA ZHANG, Generalized Conditional Gradient for Structured Sparsity and Convex Deep Network	LIEVEN VANDENBERGHE, Proximal methods for optimization over nonnegative trigonometric polynomials	MIKAEL JOHANSSON, Fast convex optimization for eigenproblems and beyond		
We 3:15pm-4:45pm 3x30 min	Convex optimization, distances and constraints, Chair: Pablo A Parrilo PAVEL DVURECHENSKY, Computational Optimal Transport: Accelerated Gradient Descent vs Sinkhorn		PABLO PARRILO, Geodesic distance maximization	ADIL SALIM, A Splitting Algorithm for Minimization under Stochastic Linear Constraints			
We 5:00pm-6:30pm 3x30 min	Problems in the intersection of machine learning and optimization, Chair: Ross M Anderson BRANDON AMOS, OptNet: End-to-End Differentiable Constrained Optimization		ROSS ANDERSON, Solving argmax for a neural network with MIP, and related optimization problems	VINOD NAIR, Learning Fast Optimizers for Contextual Stochastic Integer Programs			
Th 8:30am-10:30am 4x30 min	First-order methods for large-scale convex problems, Organizer: Stephen A Vavasis STEPHEN VAVASIS, A single potential governing convergence of CG, AG and Geometric Descent		MERT GURBUZBALABAN, Robust Accelerated Gradient Method	PETER RICHTARIK, Randomized methods for convex feasibility problems and applications to ML	YAOLIANG YU, Bregman Divergence for Stochastic Variance Reduction		
Th 3:15pm-4:45pm 3x30 min	Accelerating Learning, Organizer: Martin Takac DAMIEN SCIEUR, Nonlinear Acceleration of Stochastic Algorithms		SAI PRANEETH KARIMIREDDY, Accelerated First Order Methods with Approximate Subproblems	ANGELIA NEDICH, Optimal Algorithms for Distributed Optimization			
Th 5:00pm-6:30pm 4x20 min	First-order methods for large-scale convex problems II, Organizer: Stephen A Vavasis MADELEINE UDELL, Convex Low Rank Semidefinite Optimization		SIMON LACOSTE-JULIEN, Frank-Wolfe Splitting via Augmented Lagrangian Method	FRANCOIS GLINEUR, Extending performance estimation beyond exact convex fixed-step methods	XUAN VINH DOAN, Low-Storage Conditional Gradient Method for Low-Rank and Sparse Optimization		
Fr 8:30am-10:30am 3x30 min	Dimensionality reduction tools for learning: A sketchy session, Organizer: Robert M Gower NICOLAS KERIVEN, Sketched Learning with Random Feature Moments		ARTHUR MENSCH, Stochastic Subsampling for Factorizing Huge Matrices	ALESSANDRO RUDI, Optimal kernel methods for large scale machine learning			
Fr 3:15pm-4:45pm 3x30 min	Classification, regression and clustering, Chair: Dimitris Bertsimas DIMITRIS BERTSIMAS, Interpretable Machine Learning		INÁCIO GUIMARÃES, Logistic Regression and Principal Curves Applied to Discriminant Analysis	JAMES BROOKS, Sufficient Conditions for L1-Norm Best-Fit Lines			
Fr 5:00pm-6:30pm 4x20 min	Spectral and Semidefinite Methods for Learning, Organizer: Martin Jaggi MARYAM FAZEL, Competitive Online Algorithms with Application to Optimal Experiment Design		MICHAEL FANUEL, Positive semi-definite embedding for dimensionality reduction	KIMON FOUNTOLAKIS, Variational Perspective on Local Graph Clustering	SAVERIO SALZO, Solving lp-norm regularization with tensor kernels		

Salle DENUCE - Build Q - Ground Floor - Zone 8			
Mo 3:15pm-4:45pm 3x30 min	Progress in Algorithms for Optimal Power Flow Problems I, Organizer: Miguel F Anjos MANUEL RUIZ, Solving an Optimal Power Flow (OPF) problem with preventive security constraints	MIGUEL ANJOS, Tight-and-Cheap Conic Relaxation for the AC Optimal Power Flow Problem	MOSTAFA SAHRAEI ARDAKANI, Coordinated Planning and Operation of M-FACTS and Transmission Switching
Mo 5:00pm-6:30pm 4x20 min	Exploiting structure in constrained optimization, Organizer: Mihai Cucuringu HEMANT TVAGI, Provably robust estimation of modulo 1 samples of a smooth function	AKIKO TAKEDA, Efficient DC Algorithm for constrained sparse optimization problems	NIKITAS RONTISIS, Distributionally Ambiguous Optimization Techniques for Batch Bayesian Optimizati ANDRE USCHMAJEV, On critical points of quadratic low-rank matrix optimization problems
Tu 8:30am-10:30am 4x30 min	Statistics meets optimization: going beyond convexity, Organizer: John Duchi MAHDI SOLTANOLKOTABI, Learning ReLUs and over-parameterized neural networks via gradient descent	JU SUN, When are nonconvex optimization problems not scary?	JOHN DUCHI, Solving composite optimization problems, with applications to phase retrieval an RINA BARBER, Optimal iterative thresholding algorithms for sparse optimization
Tu 3:15pm-4:45pm 3x30 min	Equilibrium Modelling in Energy, Organizer: Thomas Kallabis MIRJAM AMBROSIUS, Optimal Price Zones and Investment Incentives in Electricity Markets	THOMAS KALLABIS, Strategic generation investment using a stochastic rollinghorizon MPEC approach	CHRISTOPH WEBER, Coordination Problems in the Coupling of Gas and Electricity Markets
We 8:30am-10:30am 4x30 min	Decomposition Techniques to Solve Large-Scale Optimization Problems for Electricity and Natural Gas Systems, Organizer: Ramteen Sioshansi JEAN-PAUL WATSON, Toward Scalable Stochastic Economic Dispatch on an Industrial-Scale Model	DAVID POZO, Distributionally Robust Transmission Expansion Planning	GERRIT SLEVOGT, Structures and algorithms for nomination validation in steady-state gas networks GIORGIA OGGIONI, A bilevel model for the waste-to-energy supply chain in a circular economy
We 3:15pm-4:45pm 3x30 min	Second order methods for training ML models, Chair: Julien Mairal AMIR ABDESSAMAD, Newton method with an adjusted generalized Hessian matrix for SVMs	JULIEN MAIRAL, A Variable Metric Inexact Proximal Point Algorithm for Quasi-Newton Acceleration	ROBERT MOHR, An Adaptive Sample Size Trust-Region Method for Empirical Risk Minimization
We 5:00pm-6:30pm 4x20 min	Optimization and modeling of integrated energy systems, Organizer: Jalal Kazempour STEFANOS DELIKARAOGLOU, Market-based valuation of natural gas network flexibility	IBRAHIM ABADA, Unintended consequences: The snowball effect of energy communities	LESIA MITRIDATI, Coordination of Heat and Electricity Systems via Market-Based Mechanisms ANNA SCHWELE, Virtual bidders and self-schedulers in electricity and natural gas markets
Th 8:30am-10:30am 4x30 min	Large-scale learning, Organizer: Lorenzo Rosasco MIKHAIL BELKIN, The power of interpolation: on the effectiveness of SGD in modern learning	CHRIS RE, Precision on the Brain: Low-Precision to High-Precision for Machine Learning	GERGELY NEU, Iterate averaging as regularization for stochastic gradient descent LORENZO ROSASCO, Convergence vs stability: a regularization view on accelerated methods
Th 3:15pm-4:45pm 3x30 min	Optimization Models for Renewable Energy Integration 1, Organizer: Luis F Zuluaga PANAGIOTIS ANDRIANESIS, Optimal Grid Operation and DER Dispatch in Active Distribution Networks	GALINA ORLINSKAYA, Bilevel Optimization for Flexible Electricity Supply Tariff Design	LUIS ZULUAGA, Competitive equilibrium and revenue adequate prices for robust energy markets
Th 5:00pm-6:30pm 3x30 min	Equilibrium and Optimization in Energy Markets, Organizer: Asgeir Tomasgard STEVEN GABRIEL, Bilevel Linear Programming Investment Problems Lower-Level Primal and Dual Variables	ENDRE BJORN DAL, The Flow-Based Market Coupling Model and the Bidding Zone Configuration	ASGEIR TOMASGARD, A European power market model with short- and long-term uncertainty
Fr 8:30am-10:30am 4x30 min	Machine Learning in State Estimation and Situational Awareness in Power Grids, Organizer: Deepjyoti Deka DEEPIYOTI DEKA, Learning with end-users in distribution grids:Topology and parameter estimation	MARC VUFFRAY, Online Learning of Power Transmission Dynamics	MAURO ESCOBAR, Machine learning with PMU signals DONGCHAN LEE, Convex polytope machine approach for transient stability assessment
Fr 3:15pm-4:45pm 3x30 min	Estimation and Learning for Power Systems, Organizer: Javad Lavaei YU ZHANG, Performance Bound for Power System State Estimation via Conic Relaxations	RICHARD ZHANG, Spurious Critical Points in Power System State Estimation	MING JIN, Vulnerability analysis and robustification of power grid state estimation

PITRES - Build O - Ground Floor - Zone 8			
Mo 3:15pm-4:45pm 3x30 min	Facility Layout, Chair: Anders N Gullhav MIRKO DAHLBECK, Combinatorial Bounds for the (extended) Double Row Facility Layout Problem	ANDERS GULLHAV, A Matheuristic Approach to the Hospital Facility Layout Problem	HANANE KHAMLI, A Multi task robot layout optimization with inventory lot-sizing problem
Mo 5:00pm-6:30pm 3x30 min	Implementation of interior-point methods for large-scale problems and applications II, Organizer: Jordi Castro CSABA MESZAROS, On the implementation of the crossover algorithm		
	AURELIO OLIVEIRA, Interior point methods applied to context-free grammar parameter estimation	JORDI CASTRO, A new specialized interior-point method for support vector machines	
Tu 8:30am-10:30am 4x30 min	LP, Mixed Integer Convex Programming and Decomposition, Organizer: Thorsten Koch MITEN MISTRY, Optimising over Gradient-Boosted Regression Trees with Convex Penalty Functions		
	NIKOLAOS PLOSKAS, An advanced initialization procedure for the simplex algorithm	STEPHEN MAHER, Experiments with a general Benders' decomposition framework for SCIP	CHRISTIAN PUCHERT, Progress in the Branch-Price-and-Cut Solver GCG
Tu 3:15pm-4:45pm 3x30 min	Pricing Methods, Organizer: Rafael Martinelli TEOBALDO BULHÖES JÚNIOR, A branch-and-price algorithm for the Minimum Latency Problem		
	JACQUES DESROSIERS, Pricing, cycles, and pivots	RUSLAN SADYKOV, Branch-Cut-and-Price Solver for Vehicle Routing Problems	
We 8:30am-10:30am 3x30 min	Progress in MIP Solvers I, Organizer: Michael Winkler IMRE POLIK, New features and improvements in the SAS/OR optimization package		
	THORSTEN KOCH, MIPLIB 2017+1	HANS MITTELMANN, Benchmarks of commercial and noncommercial optimization software	
We 3:15pm-4:45pm 3x30 min	Progress in Conic and MIP Solvers, Organizer: Imre Polik JEAN-HUBERT HOURS, Artelys Knitro 11.0, a new conic solver and other novelties		
	ERLING ANDERSEN, MOSEK version 9	FRANZ WESSELMANN, Recent enhancements in MATLAB Optimization Toolbox solvers for LP and MILP	
We 5:00pm-6:30pm 3x30 min	Progress in MIP Solvers II, Organizer: Hans Mittelmann ANDREA TRAMONTANI, Benders Decomposition in IBM CPLEX		
	MICHAEL WINKLER, Gurobi 8.0 - What's new	MICHAEL PERREGAARD, Recent Progress in the Xpress Solvers	
Th 8:30am-10:30am 3x30 min	Vehicle Routing I, Chair: Guy Desaulniers GUY DESAULNIERS, The vehicle routing problem with stochastic and correlated travel times		
	BOLOR JARGALSAIKHAN, An exact formulation for pickup and delivery problem with divisible split-ups	MATHIAS KLAPP, Branch-and-Price for Probabilistic Vehicle Routing	
Th 3:15pm-4:45pm 2x30 min	Path Problems, Chair: Yanchao Liu EDWARD HE, Dynamic Discretization Discovery Algorithms for Time-Dependent Path Problems		
	YANCHAO LIU, Drone Path Planning and Aerial Traffic Flow		
Th 5:00pm-6:30pm 3x30 min	Computational OR in Julia/JuMP, Organizer: Miles Lubin MILES LUBIN, JuMP 0.19 and MathOptInterface: new abstractions for mathematical optimization		
	SEBASTIEN MARTIN, Optimizing Public Policy: School Transportation and Start Times in Boston.	JARRETT REVELS, Capstan: Next-Generation Automatic Differentiation for Julia	
Fr 8:30am-10:30am 4x30 min	Hybrid Algorithms and Matheuristics for VRP, Organizer: Thibaut Vidal THIBAUT VIDAL, Heuristics for vehicle routing problems: Sequence or set optimization?		
	DOMINIQUE FEILLET, Single Liner Service Design with Speed Optimization	JEAN BERTRAN GAUTHIER, Heuristic pricing for the shortest path problem with resource constraints	PEDRO DINIZ, Garbage Collection Routing With Heterogeneous Fleet
Fr 3:15pm-4:45pm 3x30 min	Computational Integer Programming I, Organizer: Domenico Salvagnin TOBIAS ACHTERBERG, Exploiting Degeneracy in MIP		
	PIERRE LE BODIC, Online Estimation of the Size of the Branch and Bound Tree in MIP Solvers	ALINSON XAVIER, Multi-Row Intersection Cuts based on the Infinity Norm	
Fr 5:00pm-6:30pm 3x30 min	Computational Integer Programming II, Organizer: Domenico Salvagnin GREGOR HENDEL, Tighter LP relaxations for configuration knapsacks using extended formulations		
	DIMITRIOS LETSIOS, Lexicographic Optimization and Recovery in Two-Stage Robust Scheduling	ROLAND WUNDERLING, Dynamic Row Disabling: a practical Implementation of the Kernel Simplex Method	

GINTRAC - Build Q - Ground Floor - Zone 8			
Mo 3:15pm-4:45pm 3x30 min	Polynomial and tensor optimization I, Organizer: Jiawang Nie JEAN LASSERRE, Sparse Polynomial Interpolation: Compressed Sensing, Super-resolution, or Prony?	STEPHANE GAUBERT, Eigenvalues inequalities for nonnegative tensors and their tropical analogues	HARM DERKSEN, Signal Denoising, Tensors and Singular Values
Mo 5:00pm-6:30pm 3x30 min	Gradient Methods for Constrained Optimization Problems, Organizer: Igor Konnov IGOR KONNOV, Simple Adaptive Versions of Iterative Optimization Methods	ALEXANDER ZASLAVSKI, Subgradient Projection Algorithm with Computational Errors	IGOR KONNOV ANDREA CRISTOFARI, An active-set framework for minimizing nonconvex functions over the simplex
Tu 8:30am-10:30am 4x30 min	Stochastic and Nonlinear Optimization I, Organizer: Jorge Nocedal RAGHU BOLLAPRAGADA, A Progressive Batching L-BFGS Method for Machine Learning	LEON BOTTOU, Convexity "à la carte"	PHILIP THOMPSON, On variance reduction for stochastic optimization with multiplicative noise FRANK CURTIS, Characterizing Worst-Case Complexity of Algorithms for Nonconvex Optimization
Tu 3:15pm-4:45pm 3x30 min	Sum-of-squares and moment problems: methods and applications, Organizer: Etienne De Klerk AMIR ALI AHMADI, LP, SOCP, and Optimization-Free Approaches to Polynomial Optimization	KRZYSZTOF POSTEK, Distributionally robust optimization with SOS polynomial density functions and m	ETIENNE DE KLERK GEORGINA HALL, Nonnegative polynomials, and applications to learning
We 8:30am-10:30am 4x30 min	Stochastic and Nonlinear Optimization III, Organizer: Jorge Nocedal FRED ROOSTA, Efficient Newton-type methods for non-convex machine learning problems	JORGE NOCEDAL, Optimization Methods for Training Neural Networks	STEPHEN WRIGHT, A Newton-CG Method with Complexity Guarantees UDAY SHANBHAG, Smoothed Variable Sample-size Acc. Prox. Methods for Stoch. Convex Optimization
We 3:15pm-4:45pm 3x30 min	The power and limits of the Lasserre hierarchy, Organizer: Markus Schweighofer STANDA ZIVNY, The power and limits of convex relaxations for general-valued CSPs	ADAM KURPISZ, On the convergence of the Lasserre/SoS hierarchy for 0/1 optimization problems.	MARKUS SCHWEIGHOFER MONALDO MASTROLILLI, High Degree SOS Proofs, Bienstock-Zuckerberg hierarchy and Chvatal-Gomory cuts
We 5:00pm-6:30pm 3x30 min	Software for Nonlinear Optimization, Organizer: Sven Leyffer CHARLIE VANARET, Argonot: An Open-Source Software Framework for Nonlinear Optimization	PHILIP GILL, A Primal-Dual Shifted Barrier Method for Nonlinear Optimization	SVEN LEYFFER ELIZABETH WONG, L-RH-B: Software for Large-Scale Bound-Constrained Optimization
Th 8:30am-10:30am 4x30 min	Recent advances in interior point methods and NLP, Organizer: Michael Todd MICHAEL TODD, The ellipsoid method redux	E. ALPER YILDIRIM, MILP Formulations for Globally Solving Nonconvex Standard Quadratic Programs	MICHAEL TODD YINYU YE, A One-phase Interior Point Method For Nonconvex Optimization OLIVER HINDER, A polynomial time interior point method for problems with nonconvex constraints
Fr 8:30am-10:30am 4x30 min	Stochastic and Nonlinear Optimization II, Organizer: Jorge Nocedal MARK SCHMIDT, "Active-set complexity" of proximal-gradient: How long does it take to find the	DANIEL ROBINSON, A Positive Outlook on Negative Curvature	JORGE NOCEDAL ALBERT BERAHAS, Derivative-Free Optimization of Noisy Functions via Quasi-Newton Methods LIN XIAO, Randomized Primal-Dual Algorithms for Asynchronous Distributed Optimization
Fr 3:15pm-4:45pm 3x30 min	Interior Point Methods in Engineering Applications I, Organizer: Jacek Gondzio SEBASTIAAN BREEDEVELD, A (non)convex interior-point implementation tuned for radiotherapy optimisation	LOVISA ENGBERG, Refined planning tools for external radiotherapy using interior point methods	JACEK GONDZIO RENKE KUHLMANN, Computational Study of a Primal-Dual Penalty-Interior-Point Algorithm
Fr 5:00pm-6:30pm 3x30 min	Moment relaxations for polynomial optimization with symmetries, Organizer: Markus Schweighofer FRANK VALLENTIN, Coloring the Voronoi tessellation of lattices	CORDIAN RIENER, Semidefinite optimization and arithmetic progressions	MARKUS SCHWEIGHOFER PHILIPPE MOUSTROU, The upper density of sets avoiding norm one in the real space of dimension n

Salle LC4 - Build L - Intermediate 1 - Zone 9				
Room				
Tu 8:30am-10:30am 4x30 min	Advances in Bundle Methods for Convex Optimization, Organizer: Christoph Helmberg			
	FRANK FISCHER, An Asynchronous Parallel Bundle Method Based on Inexact Oracles	ANTONIO FRANGIONI, Fully Incremental Bundle Methods: (Un)cooperative (Un)faithful Oracles and Upper	ELISABETH GAAR, The Bundle Method for Getting an Improved SDP Relaxation of the Stability Number	CHRISTOPH HELMBERG, A Dynamic Scaling Approach for Bundle Methods in Convex Optimization
We 8:30am-10:30am 4x30 min	Recent advances in first-order algorithms for non-smooth optimization, Organizer: Thomas Pock			
	PETER OCHS, Non-smooth Non-convex Bregman Minimization: Unification and new Algorithms	YURA MALITSKY, Primal-dual algorithm for linearly constrained optimization problem	MATTHIAS EHRHARDT, Stochastic PDHG with Arbitrary Sampling and Applications to Medical Imaging	STANISLAV MAZURENKO, Acceleration and global convergence of the NL-PDHGM
Th 8:30am-10:30am 4x30 min	Universal methods in non-smooth analysis, Organizer: Alexander Gasnikov			
	ALEXANDER TYURIN, Universal Nesterov's gradient method in general model conception	SERGEY GUMINOV, Dual universal conjugate gradient type methods.	ALEXANDER TYTOV, Universal Proximal Method for Variational Inequalities	DMITRY KAMZOLOV, Universal Intermediate Gradient Method for Convex Problems with Inexact Oracle
Th 5:00pm-6:30pm 3x30 min	Efficient Semismooth Newton Methods for Large Scale Statistical Optimization Problems, Organizer: Defeng Sun			
	MEIXIA LIN, Efficient sparse Hessian based algorithms for the clustered lasso problem	YANGJING ZHANG, An efficient algorithm for solving large scale sparse group Lasso problems	DEFENG SUN, On the efficient computation of the projector over the Birkhoff polytope	
Fr 8:30am-10:30am 4x30 min	Geometry in complexity analysis of non-smooth optimization methods, Organizer: Jalal Fadili			
	CHARLES DOSSAL, An ODE associated to the Nesterov acceleration scheme	GUILAUME GARRIGOS, Structured sparsity in inverse problems and support recovery	ANTHONY SO, Error Bound-Based Convergence Rate Analysis of Newton-Type Methods	JALAL FADILI, Finite Activity Identification: Geometry and Algorithms
Fr 5:00pm-6:30pm 3x30 min	Nonconvex Optimization: Theory and Methods - Part 3, Organizer: Genaro Lopez			
	ALEXANDER SHTOF, Globally Solving a Class of Optimal Power Flow Problems in Radial Networks	MATTHEW TAM, Algorithms based on unions of nonexpansive maps	GENARO LOPEZ, What do 'convexities' imply on Hadamard manifolds?	

Salle KC6 - Build K - Intermediate 1 - Zone 10			
Mo 3:15pm-4:45pm 3x30 min	Coordinate Descent and Randomized Direct Search Methods , <i>Organizer</i> : Martin Takac ASU OZDAGLAR, When Cyclic Coordinate Descent Outperforms Randomized Coordinate Descent	EL HOUCINE BERGOU, Random direct search method for unconstrained smooth minimization	DIMITRI PAPAGEORGIOU, Active Metric Learning for Supervised Classification
Mo 5:00pm-6:30pm 3x20 min	Complexity of Randomized Algorithms , <i>Organizer</i> : Raghu Pasupathy MARTIN MORIN, On the Convergence of SAGA-like Algorithms	BANG VU, On the linear convergence of the projected stochastic gradient method	RAGHU PASUPATHY, The Complexity of Adaptive Sampling Accelerated Gradient Descent
Tu 8:30am-10:30am 4x30 min	Larges Scale and Distributed Optimization , <i>Organizer</i> : Ermin Wei PONTUS GISELSSON, On Linear Convergence for Douglas-Rachford splitting and ADMM	JONATHAN ECKSTEIN, Block-Iterative and Asynchronous Projective Splitting for Monotone Operators	GESUALDO SCUTARI, Achieving Geometric Convergence for Distributed Asynchronous Optimization ERMIN WEI, Asynchronous Distributed Network Newton Method
Tu 3:15pm-4:45pm 3x30 min	Recent Advances in Stochastic and Non-convex Optimization II , <i>Organizer</i> : Mingyi Hong TIANBAO YANG, First-order Stochastic Algorithms for Escaping From Saddle Points	JOHN BIRGE, Markov chain Monte Carlo methods for Dynamic Stochastic Optimization	JONG-SHI PANG, Composite Difference-Max Programs for Modern Statistical Estimation Problems
We 8:30am-10:30am 4x30 min	First Order Methods for Non-Smooth Constrained Optimization , <i>Organizer</i> : Qihang Lin SHIQIAN MA, On the Non-Ergodic Convergence Rate of an Inexact Augmented Lagrangian Framework	SELVAPRABU NADARAJAH, A level-set method for stochastic optimization with expectation constraints	PENG ZHENG, Fast method for non-smooth non-convex minimization DAO LI ZHU, Stochastic Primal-Dual Coordinate Method for Nonlinear Convex Cone Programs
We 3:15pm-4:45pm 3x30 min	Fast Converging Stochastic Optimization Algorithms , <i>Organizer</i> : Francis Bach AYMERIC DIEULEVEUT, Bridging the Gap between Constant Step Size SGD and Markov Chains	AUDE GENEVAY, Stochastic Optimization for Large Scale Optimal Transport	ROBERT GOWER, Variance Reduced Methods via Sketching
We 5:00pm-6:30pm 4x20 min	Non-Convex and Second-order Methods in Machine Learning , <i>Organizer</i> : Martin Takac AURELIEN LUCCHI, Escaping Saddles with Stochastic Algorithms	REZA BABANEZHAD, Convergence Rate of Expectation-Maximization	FRANCESCO ORABONA, Parameter-free non-smooth convex stochastic optimization through coin betting MARTIN TAKAC, SGD and Hogwild! Convergence Without the Bounded Gradients Assumption
Th 8:30am-10:30am 4x30 min	Recent Advances on Stochastic Algorithms and Machine Learning , <i>Organizer</i> : Shiqian Ma QIHANG LIN, Level-Set Methods for Finite-Sum Constrained Convex Optimization	XUDONG LI, Estimation of Markov Chain via Rank-constrained Likelihood	GUANGHUI LAN, Random gradient extrapolation for distributed and stochastic optimization RENBO ZHAO, An Accelerated Algorithm for Stochastic Three-composite Optimization
Th 3:15pm-4:45pm 3x30 min	Asynchronous Parallel and Distributed Optimization , <i>Organizer</i> : Wotao Yin RÉMI LEBLOND, Improved asynchronous parallel optimization analysis for incremental methods	ROBERT HANNAH, Why Asynchronous Algorithms may Drastically Outperform Traditional Ones	RENATO MONTEIRO, Complexity of a quadratic penalty accelerated inexact proximal point method
Th 5:00pm-6:30pm 3x20 min	Recent Progress on Second-order Type Optimization Methods , <i>Organizer</i> : Andre Milzarek CHING-PEI LEE, Inexact Successive Quadratic Approximation for Regularized Optimization	JIANG HU, Structured Quasi-Newton method For Optimization with Orthogonality Constraints	ANDRE MILZAREK, A stochastic semismooth Newton method for nonsmooth nonconvex optimization
Fr 8:30am-10:30am 3x30 min	Recent Advances in Coordinate Descent and Constrained Problems , <i>Organizer</i> : Ion Necoara NICOLAS LOIZOU, Convergence Analysis of Inexact Randomized Iterative Methods	KONSTANTIN MISHCHENKO, A Stochastic Penalty Model for Optimization with Many Convex Constraints	ION NECOARA, Random coordinate descent methods for linearly constrained convex optimization
Fr 5:00pm-6:30pm 4x20 min	Algorithms for Structured Statistical Optimization , <i>Chair</i> : Ilker Birbil ILKER BIRBIL, A Differentially Private Stochastic Gradient Descent Algorithm with Smoothing	LIJUN DING, Leave-one-out approach for statistical optimization	GREG ONGIE, Adaptive Sampling for Online Subspace Estimation SAEED GHADIMI, Approximation Methods for Bilevel Programming

Salle LC5 - Build L - Intermediate 1 - Zone 10			
Mo 3:15pm-4:45pm 3x30 min	Algorithms for nonlinear conic problems , <i>Chair</i> : Takayuki Okuno LEONARDO MITO, Augmented Lagrangian for nonlinear SDPs applied to the covering problem	CUNLU ZHOU, Long-Step Path-Following Algorithm for Nonlinear Symmetric Programming Problems	TAKAYUKI OKUNO, A primal-dual path following method for nonlinear semi-infinite SDPs
Mo 5:00pm-6:30pm 3x30 min	Convergence and Approximation in Conic Programming , <i>Chair</i> : Tamás Terlaky NURI VANLI, Convergence Rate of Block Coordinate Ascent for Nonconvex Burer-Monteiro Method	YURIY ZINCHENKO, Towards efficient approximation of p-cones	TERLAKY TAMÁS TERLAKY, Quadratic convergence to the optimal solution of second-order conic optimization
Tu 8:30am-10:30am 4x30 min	Theory and algorithms in conic linear programming I , <i>Organizer</i> : Gabor Pataki HENRY WOLKOWICZ, Low-Rank Matrix Completion (LRMC) using Nuclear Norm (NN) with Facial Reduction	NEGAR SOHEILI, Solving conic systems via projection and rescaling	GABOR PATAKI HENRIK FRIBERG, Projection and presolve in MOSEK: exponential and power cones LEVENT TUNCEL, TOTAL DUAL INTEGRALITY FOR CONVEX, SEMIDEFINITE, AND EXTENDED FORMULATIONS
Tu 3:15pm-4:45pm 3x30 min	Relative Entropy Optimization II , <i>Organizer</i> : Venkat Chandrasekaran VENKAT CHANDRASEKARAN, Newton Polytopes and Relative Entropy Optimization	TIMO DE WOLFF, Optimization over the Hypercube via Sums of Nonnegative Circuit Polynomials	ORCUN KARACA, The REPOP Toolbox: Polynomial Optimization Using Relative Entropy Relaxations
We 8:30am-10:30am 4x30 min	New trends II , <i>Chair</i> : Frank Permenter CLAUDIA ADAMS, An L^2 -approach to Copositivity	FAIZAN AHMED, On algorithms to optimize homogeneous polynomial over the simplex and the sphere	JOHN MITCHELL, Complementarity formulations of rank minimization problems FRANK PERMENTER, Interior-point methods via the exponential map
We 3:15pm-4:45pm 3x30 min	Reformulation-based solution methods for quadratic programming , <i>Organizer</i> : Dominique Quadri ERIC SOUTIL, Non-convex Quadratic Integer Programming : a piecewise linearization	HABRIEN GODARD, Solving Alternative Current Optimal Power Flow to global optimality	DOMINIQUE QUADRI SOUROUR ELLOUMI, Preprocessing and reformulation for the Quadratic Assignment Problem
We 5:00pm-6:30pm 4x20 min	Completely Positive Cones and Applications , <i>Chair</i> : Patrick Groetzner MUHAMMAD IQBAL, Approximation Hierarchies for Copositive and Completely Positive Tensor Cones	MINA SAAE BOSTANABAD, Inner approximating the completely positive cone via the cone of SDD matrices	ELLEN FUKUDA, Solving nonlinear conic programming problems with a new DC approach PATRICK GROETZNER, A method to compute factorizations for completely positive matrices
Th 8:30am-10:30am 4x30 min	Geometry and duality in convex optimization , <i>Organizer</i> : Javier F Pena DAVID GUTMAN, Condition Numbers for Convex Functions with Polytope Domains	JAVIER PENA, Conditioning of conic systems via the Grassmannian manifold	JOURDAIN LAMPERSKI, Solving linear inequalities via non-convex optimization GABOR PATAKI, On positive duality gaps in semidefinite programming
Th 3:15pm-4:45pm 3x30 min	Noncommutative polynomial optimization: semidefinite relaxations, free convexity and applications to quantum information II , <i>Organizer</i> : Monique Laurent SANDER GRIBLING, Quantifying entanglement of a quantum correlation using polynomial optimization	ANTONIOS VARVITSIOTIS, Graph isomorphism: conic relaxations and physical interpretation	FARID ALIZADEH, Optimization over univariate polynomials: Algorithms and applications
Th 5:00pm-6:30pm 4x20 min	Using coning programming in problems solving , <i>Chair</i> : Kurt Majewski VILMAR JEFTE DE SOUSA, Linear Relaxation of Maximum k-Cut with Semidefinite-Based Constraints	ANJA KUTTICH, Feedback Controller and Topology Design for uncertain mechanical systems	JULIE SLIWAK, Stabilization of the moment-based approach to prove global optimality for ACOPF KURT MAJEWSKI, Maximum Volume Inscribed Ellipsoids for Specific Absorption Rate Bounds in MRI
Fr 8:30am-10:30am 4x30 min	Stability and scaling in conic programming , <i>Chair</i> : Diego Cifuentes ROLAND HILDEBRAND, Scaling points and reach for non-self-scaled barriers	HECTOR RAMIREZ, Stability Analysis for Parameterized Conic Programs	WEI ZHANG, An improved projection and rescaling algorithm for conic feasible problems DIEGO CIFUENTES, On the local stability of semidefinite relaxations
Fr 3:15pm-4:45pm 3x30 min	Relative Entropy Optimization I , <i>Organizer</i> : Venkat Chandrasekaran RILEY MURRAY, Exactness of Relative Entropy Relaxations for Signomial Programs	HAMZA FAWZI, Certificates of nonnegativity via conic lifts	MICHAL ADAMASZEK, Exponential cone in MOSEK: overview and applications
Fr 5:00pm-6:30pm 3x30 min	Sparse Semidefinite Programming , <i>Organizer</i> : Somayeh Sojoudi MARTIN ANDERSEN, Sparse Semidefinite Relaxations of Communicability-Based Graph Partition Problem	CEBRIC JOSZ, Lasserre hierarchy for large scale polynomial optimization	SOMAYEH SOJOUDI, Fast Algorithms for Max-Det Matrix Completion and Graphical Lasso

Room					Salle KC7 - Build K - Intermediate 2 - Zone 10				
Mo 3:15pm-4:45pm 3x30 min	Sparse Recovery , <i>Chair</i> : Mustafa C Pinar JOHN CHINNECK, LP-based Sparse Solutions Revisited				MUSTAFA PINAR, Sparse Recovery and Convex Quadratic Splines	OLOF TROENG, Efficient ℓ_0 Trend Filtering			
Tu 8:30am-10:30am 4x30 min	Unconstrained Optimization , <i>Chair</i> : Ekkehard Sachs ANDREA CALICIOTTI, SYMMBK algorithm applied to Newton-Krylov methods for unconstrained optimization				ELISA RICCIETTI, Regularizing trust-region methods for ill-posed nonlinear least-squares problems	MASSIMO ROMA, Approximate Inverse Preconditioning for Newton-Krylov methods	EKKEHARD SACHS, Second Order Adjoints		
Tu 3:15pm-4:45pm 3x30 min	Bridging NLP and Theoretical Computer Science , <i>Organizer</i> : Aleksander Madry ALEKSANDER MADRY, Improved Max Flow and Bipartite Matching Algorithms via Interior Point Method				LORENZO ORECCHIA, First-order methods: from dynamical systems to discrete optimization	YIN TAT LEE, A homotopy method for lp regression provably beyond self-concordance			
We 8:30am-10:30am 4x30 min	Computational advances in NLP , <i>Chair</i> : Jeffrey CH Pang ALFONSO LOBOS RUIZ, Optimal Bidding, Allocation, and Budget Spending for a Demand-Side Platform.				JEFFREY PANG, Distributed deterministic asynchronous optimization using Dykstra's splitting	ZHENING LI, Decompositions and optimizations of symmetric conjugate complex forms	MAX GONCALVES, An inexact Newton-like conditional gradient method for constrained systems		
Th 8:30am-10:30am 4x30 min	First Order Methods I , <i>Chair</i> : Sandra A. Santos SANDRA SANTOS, Accelerating block coordinate descent methods with identification strategies				FRANCESCO LOCATELLO, On Matching Pursuit and Coordinate Descent	TIANYI LIN, A Unified Scheme to Accelerate Adaptive Cubic Regularization and Gradient Method	FELIX LIEDER, Performance Estimation for Fixed Point Iterations		
Th 5:00pm-6:30pm 3x20 min	First Order Methods II , <i>Chair</i> : Guillaume Berger GUILLAUME BERGER, Hölder-continuous gradient and first-order approximation accuracy				ANDERSEN ANG, Accelerating Nonnegative Matrix Factorization Algorithms using Extrapolation	LEI ZHAO, First-Order Primal-Dual Method for Nonlinear Convex Cone Programs			
Fr 8:30am-10:30am 4x30 min	Regularization and Iterative Methods in Large-Scale Optimization , <i>Organizer</i> : Jacek Gondzio PAUL ARMAND, Local analysis of a regularized primal-dual algorithm for NLP without SOSC				DOMINIQUE ORBAN, Implementing a smooth exact penalty function for nonlinear optimization	SPYRIDON POUKAKIOTIS, Dynamic primal-dual regularization in interior point methods	MICHAEL SAUNDERS, Stabilized Optimization via an NCL Algorithm		
Fr 5:00pm-6:30pm 3x30 min	Subspace methods in NLP II , <i>Organizer</i> : Panos Parpas PANOS PARPAS, Distributed Subspace Decomposition				EMRE MENGI, Subspace Frameworks for Eigenvalue Optimization	JAROSLAV FOWKES, A block-coordinate Gauss-Newton method for nonlinear least squares			

Salle 05 - Build Q - 1st floor - Zone 11			
Mo 3:15pm-4:45pm 3x30 min	Convex regularization and inverse problems , <i>Organizer: Pierre Weiss</i> VINCENT DUVAL, T-systems for super-resolution microscopy	FREDERIC DE GOURNAY, Convex regularization, sparsity and representation theorem	JONAS KAHN, Bounds on the size of polyedral cones
Mo 5:00pm-6:30pm 4x20 min	Polynomial and tensor optimization III , <i>Organizer: Jiawang Nie</i> LEK-HENG LIM, Higher order cone programming	KE YE, Ranks and decompositions of Hankel tensors	ANNIE RAYMOND, Symmetric Sums of Squares over k-Subset Hypercubes JIawang NIE, Tight relaxations for polynomial optimization and lagrange multiplier expression
Tu 8:30am-10:30am 4x30 min	Machine learning and sparse optimization , <i>Organizer: Coralia Cartis</i> MARTIN LOTZ, Condition numbers and weak average-case complexity in optimization	ARMIN EFTEKHARI, A Long (Random) Walk Solves All Your (Linear) Problems	FLORENTIN GOYENS, Manifold lifting: problems and methods JARED TANNER, Sparse non-negative super-resolution: simplified and stabilized
Tu 3:15pm-4:45pm 2x30 min	Interior Point Methods in Engineering Applications II , <i>Organizer: Jacek Gondzio</i> MICHAL KOVCARA, A multigrid interior point method for large scale topology optimization	JACEK GONDZIO, Solving large-scale truss layout optimization problems by a primal-dual IPM	
We 8:30am-10:30am 4x30 min	Optimality conditions in NLP and conic problems , <i>Organizer: Roberto Andreani</i> ROBERTO ANDREANI, A SEQUENTIAL OPTIMALITY CONDITION RELATED TO THE QUASINORMALITY CQ	GABRIEL HAESER, An extension of Yuan's Lemma and its applications in optimization	LUIS FELIPE BUENO, Optimality Conditions for Generalized Nash Equilibrium Problems TATIANA TCHEMISOVA, On Optimality Conditions for Linear Copositive Programming
We 3:15pm-4:45pm 3x30 min	Subspace methods in NLP I , <i>Organizer: Michal Kocvara</i> ZAIKUN ZHANG, A Space Transformation Framework for Nonlinear Optimization: Part I	SERGE GRATTON, A Space Transformation Framework for Nonlinear Optimization: Part II	FRANCISCO SOBRAL, Quasi-Newton and the Unreduced Matrix in Interior Point Methods
We 5:00pm-6:30pm 3x30 min	Conjugate Gradient Methods , <i>Chair: Giovanni Fasano</i> MEHIDDIN AL-BAALI, A New Diagonalizable Conjugate Gradient Method for Unconstrained Optimization	GIOVANNI FASANO, Conjugate Direction Methods and Polarity for Quadratic Hypersurfaces	LUIS LUCAMBIO PEREZ, Non-linear conjugate gradient for vector optimization on Riemannian manifolds
Th 8:30am-10:30am 4x30 min	Machine learning for optimisation , <i>Organizer: Coralia Cartis</i> ADILET OTEMISSOV, Dimensionality reduction for global optimisation: adaptive random embeddings	CORALIA CARTIS, Stochastic trust-region with global rate to second-order criticality	RADU BALTEAN-LUGOIAN, Online generation via offline selection of strong linear cuts from QP SDP relax. BORIS HOUSKA, Global optimization in Hilbert Space
Th 3:15pm-4:45pm 3x30 min	Methods of Optimization in Riemannian Manifolds , <i>Organizer: Orizon P Ferreira</i> PAULO OLIVEIRA, A two-phase proximal-like algorithm in domains of positivity	GLAYDSTON BENTO, Proximal point method in multiobjective optimization on Hadamard manifolds	ORIZON FERREIRA, Newton's Method for Locally Lipschitz vector Fields on Riemannian Manifolds
Th 5:00pm-6:30pm 4x20 min	Polynomial and tensor optimization II , <i>Organizer: Jiawang Nie</i> DIDIER HENRION, Computing invariant measures with the Lasserre hierarchy	ANWA ZHOU, Completely positive tensor recovery with minimal nuclear value	JOÃO GOUVEIA, Phaseless rank of a matrix XINZHEN ZHANG, A Complete Semidefinite Algorithm for Detecting Copositive Matrices and Tensors
Fr 8:30am-10:30am 4x30 min	First order methods , <i>Organizer: Gerardo Toraldo</i> SIMONE REBEGOLDI, Variable metric techniques for the inexact inertial forward-backward algorithm	DANIELA DI SERAFINO, Combining IRN and gradient methods for TV-based Poisson image restoration	WILLIAM HAGER, An Active Set Algorithm for Polyhedral Constrained Optimization IGNACE LORIS, A line-search based proximal gradient method for (non-)convex optimization
Fr 3:15pm-4:45pm 3x30 min	Nonlinear Optimization , <i>Chair: Marc C Steinbach</i> ADEMIR RIBEIRO, On the Approximate Solutions of Augmented Subproblems within Sequential Methods	MARC STEINBACH, An Elastic Primal Active Set Method for Structured SQP	HAO WANG, A Dynamic Penalty Parameter Updating Strategy for SQP Methods
Fr 5:00pm-6:30pm 4x20 min	Primal-dual and ADMM algorithms for nonlinear programming , <i>Organizer: Marco Sciandrone</i> AHMET ALACAUGLU, Smooth Primal-Dual Coordinate Descent for Nonsmooth Convex Optimization	N. SERHAT AYBAT, A primal-dual algorithm for general convex-concave saddle point problems	MARIO FIGUEIREDO, ADMM with Plug-and-Play Regularizers: Convergence Guarantees and Applications GIULIO GALVAN, Alternating minimization methods for constrained nonconvex optimization

Salle 06 - Build Q - 1st floor - Zone 11			
Mo 3:15pm-4:45pm 3x30 min	Proximal Methods for Structured Problems. <i>Organizer:</i> Ting Kei Pong TIANXIANG LIU, A successive DC approximation method for nonconvex nonsmooth optimization	MAN-CHUNG YUE, Cubic Regularization Revisited: Faster (Local) Rates under Weaker Assumptions	TING KEI PONG, Iteratively reweighted ℓ_1 algorithms with extrapolation
Mo 5:00pm-6:30pm 4x20 min	Nonlinear Optimization and Variational Inequalities VI. <i>Organizer:</i> Cong Sun FENGMIN XU, Balance analysis of sparsity and robustness for portfolio adjustment problem	CHAO ZHANG, Two-stage stochastic program and stochastic variational inequalities	XIAO WANG, Proximal Stochastic Quasi-Newton methods for Nonconvex Composite Optimization ZHONGMING WU, General inertial proximal gradient method for nonconvex nonsmooth optimization
Tu 8:30am-10:30am 4x30 min	Nonlinear Optimization and Variational Inequalities V. <i>Organizer:</i> Xin Liu YAOHUA HU, Lower-order regularization method for group sparse optimization with application	TINGTING WU, Solving Constrained TV2L1-L2 MRI Signal Reconstruction via an Efficient ADMM	OLEG BURDAKOV, On solving saddle-point problems and non-linear monotone equations JAVAD FEIZOLLAHI, A first-order method for semidefinite stochastic variational inequality problems
Tu 3:15pm-4:45pm 3x30 min	Nonlinear Optimization and Variational Inequalities III. <i>Organizer:</i> Xin Liu XINWEI LIU, A primal-dual IPM with rapid detection on infeasibility for nonlinear programs	WEI BIAN, Some discussion on nonsmooth convex regression with cardinality penalty	BO WEN, Proximal Algorithms with Extrapolation for Nonconvex Nonsmooth Problems
We 8:30am-10:30am 2x30 min	Stochastic Optimization and Variational Inequalities II. <i>Organizer:</i> Alejandro R. Jofre		YUEYUE FAN, How does uncertainty of demand propagate to flows under network equilibrium ALEJANDRO JOFRE, Variance-based stochastic extragradient methods with linear search for Stoch. VI
We 3:15pm-4:45pm 3x30 min	Optimization Algorithms and Variational Inequalities II. <i>Organizer:</i> Xiaoqi Yang XIAOQI YANG, On Error Bound Moduli for Locally Lipschitz and Regular Functions	MIN LI, Inexact primal-dual hybrid gradient methods for saddle-point problems	KUANG BAI, On directional pseudo/quasinormality and directional enhanced KKT conditions
We 5:00pm-6:30pm 3x30 min	Complementarity Problems. <i>Organizer:</i> Samir K. Neogy MUNDAPPA GOWDA, Weakly homogeneous variational inequalities	SAMIR NEOGY, On testing matrices with nonnegative principal minors	DIPTI DUBEY, Total Dual Integrality and Integral Solutions of Linear Complementarity Problem
Th 8:30am-10:30am 4x30 min	Nonlinear Optimization and Variational Inequalities I. <i>Organizer:</i> Xin Liu YAXIANG YUAN, Theory and Application of p -regularized subproblem with $p > 2$	JINYAN FAN, A semidefinite relaxation algorithm for polynomial equations	CONG SUN, On a special robust optimization problem LIANG ZHAO, Limited memory algorithms with cubic regularization
Th 3:15pm-4:45pm 3x30 min	Nonlinear Optimization and Variational Inequalities II. <i>Organizer:</i> Cong Sun XIN LIU, On the Lojasiewicz Exponent of Quadratic Minimization with Sphere Constraint	BIN GAO, A Parallelizable Algorithm for Orthogonally Constrained Optimization Problems	YANFEI WANG, A Joint Matrix Minimization Approach for Seismic Wavefield Recovery
Th 5:00pm-6:30pm 3x30 min	VU-decomposition techniques for nonsmooth optimization. <i>Organizer:</i> Claudia Sagastizabal SHUAI LIU, An epsilon-VU algorithm with superlinear convergence		
Fr 8:30am-10:30am 4x30 min	Stochastic Optimization and Variational Inequalities. <i>Organizer:</i> Hailin Sun HUIFU XU, Behavioural Function Equilibria and Approximation Schemes in Bayesian Games	SHU LU, Inference of two stage stochastic programs using SVI techniques	XIAOJUN CHEN, Theory and algorithms for two-stage stochastic variational inequalities HAILIN SUN, Sample average approximation of two-stage stochastic generalized equation
Fr 3:15pm-4:45pm 3x30 min	Algorithms for optimization and variational problems with possibly nonisolated solutions II. <i>Organizer:</i> Alexey F. Izmailov MIKHAIL SOLODOV, A globally convergent LP-Newton method for piecewise smooth constrained equation		
Fr 5:00pm-6:30pm 3x30 min	Nonlinear Optimization and Variational Inequalities IV. <i>Organizer:</i> Cong Sun JUNFENG YANG, A TVSCAD approach for image deblurring with impulsive noise		
	CHENGJING WANG, A semismooth Newton based augmented Lagrangian method for solving SVM problems	CHAO DING, Matrix optimization in data science: recent progress on algorithm foundation	

Salle 9 - Build N - 4th floor - Zone 12			
Mo 3:15pm-4:45pm 2x30 min	Adaptivity in non smooth optimization , <i>Organizer: Masaru Ito</i> MASARU ITO, An adaptive first order method for weakly smooth and uniformly convex problems	SOMAYYA KOMAL, A Subgradient Algorithm for solving variational Inequality Problem	
Mo 5:00pm-6:30pm 3x20 min	Modeling in NLP , <i>Chair: Laura Balzano</i> LAURA BALZANO, Low Algebraic Dimension Matrix Completion	MIRAI TANAKA, DC programming algorithm for fully convex bilevel optimization	NUTTAPOL PAKKARANANG, An inertial proximal point methods for solving minimization problems
Tu 3:15pm-4:45pm 3x30 min	Linear Optimization III , <i>Chair: Rodrigo Mendoza Smith</i> RODRIGO MENDOZA SMITH, Neural constraint selection in Linear Programming	CHU NGUYEN, New station cone algorithm variant for linear programming and computing experiment	KHALID EL YASSINI, A predictor-corrector algorithm for lp problems using the mixed penalty approach
We 8:30am-10:30am 4x30 min	Fixed Point Approaches , <i>Chair: Poom Kumam</i> KONRAWUT KHAMMAHAWONG, Convergence analysis of S-iteration process for discontinuous operators	POOM KUMAM, A new lgorithms for split feasibility problems involving paramonotone equilibria	KHANITIN MUANGCHOO-IN, Fixed point and convergence theorems for monotone (α, β) -nonexpansive
We 3:15pm-4:45pm 3x30 min	Quadratic Optimization , <i>Chair: Anders Forsgren</i> DAVID EK, On limited-memory quasi-Newton methods for minimizing a quadratic function	ANDERS FORSGREN, On degeneracy in active-set methods for linear and convex quadratic programming	FERNANDA RAUPP, An algorithm for projecting a point onto a level set of a quadratic function
We 5:00pm-6:30pm 3x30 min	Linear Optimization II , <i>Chair: Julian Hall</i> JULIAN HALL, Starting the dual revised simplex method from an advanced basis	MASAYA TANO, On the number of simplex iterations of the steepest-edge for a nondegenerate LP	MARINA EPELMAN, New Results on the Simplex Method for Minimum Cost Flows in Infinite Networks
Th 8:30am-10:30am 4x30 min	Non smooth optimization for lage scale problems , <i>Organizer: Yu Du</i> YU DU, Selective Linearization for Multi-block Statistical Learning Problems	DMITRY GRISHCHENKO, Randomized Proximal Algorithm with Automatic Dimension Reduction.	SHUMMIN NAKAYAMA, Inexact proximal memoryless spectral-scaling MBFGS method
Th 5:00pm-6:30pm 4x20 min	Large-scale combinatorial optimization implementations , <i>Organizer: Aaron Archer</i> ANDREW GOLDBERG, Lost in Translation: Production Code Efficiency	KEVIN AYDIN, Distributed Balanced Partitioning via Linear Embedding	CHRISTIAN SCHULZ, High Quality Graph and Hypergraph Partitioning
Fr 8:30am-10:30am 4x30 min	Decomposition Methods , <i>Chair: Roger Behling</i> ROGER BEHLING, Circumcentering the Douglas–Rachford method	LUIZ-RAFAEL SANTOS, On the linear convergence of the circumcentered–reflection method	YUAN SHEN, Alternating Direction Method of Multipliers for k-means Clustering
Fr 5:00pm-6:30pm 3x20 min	Linear Optimization I , <i>Chair: Jianming Shi</i> ZHIZE LI, A Fast Polynomial-time Primal-Dual Projection Algorithm for Linear Programming	JIANMING SHI, A polarity-based algorithm for solving linear programming problems	MAXIM DEMENKOV, An algorithm for linear programming based on the projection onto a zonotope

Salle 8 - Build N - 4th floor - Zone 12			
Mo 3:15pm-4:45pm 3x30 min	Nonconvex Optimization: Theory and Methods - Part 1, Organizer: Shoham Sabach JEROME BOLTE, From error bounds to the complexity of first-order descent methods	YAKOV VAISBOURD, Globally Solving the Trust Region Subproblem Using Simple First-Order Methods	SHOHAM SABACH, Nonconvex Lagrangian-Based Optimization: Schemes and Global Convergence
Mo 5:00pm-6:30pm 3x30 min	Extending the Reach of First-Order Methods, Part I, Organizer: Haihao Lu BENJAMIN GRIMMER, Subgradient Method Convergence Rates without Lipschitz Continuity or Convexity	YURI NESTEROV, Relative smoothness condition and its application to third-order methods.	HAIHAO LU, Generalized Stochastic Frank-Wolfe Method
Tu 8:30am-10:30am 4x30 min	Addressing problems with complex geometries, Organizer: Edouard Pauwels JEROME MALICK, Sensitivity analysis for mirror-stratifiable convex functions	COURTNEY PAQUETTE, An accelerated proximal method for minimizing compositions of convex functions	ANTOINE HOCHART, How to perturb semi-algebraic problems to ensure constraint qualification? EDOUARD PAUWELS, The multiproximal linearization method for convex composite problems
Tu 3:15pm-4:45pm 3x30 min	Nonconvex Optimization: Theory and Methods - Part 2, Organizer: Russell Luke GUOYIN LI, Splitting methods for nonconvex feasibility problems	PATRICK JOHNSTONE, Projective Splitting with Forward Steps	RUSSELL LUKE, Convergence Analysis for Nonconvex Optimization Made Easy
We 8:30am-10:30am 4x30 min	Dynamical Systems and Optimization, Organizer: Hedy Attouch RADU IOAN BOT, The continuous proximal-gradient approach in the nonconvex setting	ALEXANDRE CABOT, Accelerated Forward-Backward Algorithms	JUAN PEYPOUQUET, Inertial proximal algorithms for maximally monotone operators SILVIA VILLA, A dual diagonal iterative regularization method
We 3:15pm-4:45pm 3x30 min	Adaptivity in non-smooth optimization, Organizer: Volkan Cevher OLIVIER FERCOQ, Adaptive Double Loop Smoothing Algorithms	KFIR LEVY, Universal Acceleration through Learning Rate Adaptation	STEPHEN BECKER, ADMM vs gradient methods for ill-conditioned imaging problems
We 5:00pm-6:30pm 3x30 min	Methods and Analysis for Nonsmooth Optimization, Organizer: Michael L Overton MICHAEL OVERTON, Partial Smoothness of the Numerical Radius	ADRIAN LEWIS, Partial smoothness and active sets: a fresh approach	L OVERTON DMITRY DRUSVYATSKIY, Subgradient methods for sharp weakly convex problems
Th 8:30am-10:30am 4x30 min	First-order methods for nonconvex and pathological convex problems, Organizer: Wotao Yin MILA NIKOLOVA, Alternating structure-adapted proximal gradient descent for nonconvex problems	WENBO GAO, ADMM for Multiaffine Constrained Optimization	WOTAO YIN, Polynomial-Time Run-and-Inspect Method for Certain Nonconvex Optimization
Th 3:15pm-4:45pm 3x30 min	Extending the Reach of First-Order Methods, Part II, Organizer: Robert M. Freund MATUS TELGARSKY, Risk and parameter convergence of logistic regression	ALP YURTSEVER, A conditional gradient framework for composite convex minimization	ROBERT FREUND, Accelerating Greedy Coordinate Descent Methods
Th 5:00pm-6:30pm 3x30 min	Different faces of nonsmoothness in optimization, Organizer: Tim Hoheisel OLIVER STEIN, Global optimization of GSIPs using disjunctive programming	ABRAHAM ENGLE, Superlinear Convergence of QN Methods for PLQ Convex-Composite Optimization	TIM HOHEISEL, Applications of the generalized matrix-fractional function
Fr 8:30am-10:30am 4x30 min	Convergence analysis for non smooth optimization, Organizer: Robert Csetnek ROBERT CSETNEK, ADMM for monotone operators: convergence analysis and rates	MATTIAS FÄLT, Optimal Convergence Rates for Generalized Alternating Projections	ALAIN ZEMKOHO, Newton method for bilevel optimization: Theory+extensive numerical experiments DENNIS MEIER, Inducing strong convergence into the asymptotic behaviour of proximal splitting
Fr 3:15pm-4:45pm 3x30 min	Advances in the first-order methods for convex optimization, Organizer: Angelia Nedich HOI TO WAI, Accelerated curvature-aided incremental aggregated gradient method	TATIANA TATARENKO, Fast Incremental Gradient Method for Optimization with Linear Constraints	ANGELIA NEDICH MARYAM YASHTINI, Efficient Methods For Edge-weighted TV Models with Sphere Constraints
Fr 5:00pm-6:30pm 3x30 min	Nonsmooth DC optimization with applications, Chair: Napsu Karmitsa SONA TAHERI, PIECEWISE LINEAR REGRESSION VIA NONSMOOTH DC OPTIMIZATION	KAISA JOKI, Double Bundle Method for Nonsmooth DC Optimization	NAPSU KARMITSA, Support vector machines for clusterwise linear regression

Room	Auditorium - Build SympH H - Gambetta - Zone 0		
Mo 11:00am-12:00am 1x60 min	On the relationship between machine learning and optimization , <i>Organizer: Michel Goemans</i> FRANCIS BACH, On the relationship between machine learning and optimization		
Mo 1:30pm-2:30pm 1x60 min	Multiobjective Optimization with PDE Constraints , <i>Organizer: Stephen J Wright</i> MICHAEL HINTERMÜLLER, Multiobjective Optimization with PDE Constraints		
Tu 11:00am-12:00am 1x60 min	Adaptive Robust Optimization with Scenario-wise Ambiguity Sets , <i>Organizer: Daniel Kuhn</i> MELVYN SIM, Adaptive Robust Optimization with Scenario-wise Ambiguity Sets		
Tu 1:30pm-2:30pm 1x60 min	The Resurgence of Proximal Methods in Optimization , <i>Organizer: Claudia Sagastizabal</i> MARC TEBoulLE, The resurgence of proximal methods in optimization		
We 11:00am-12:00am 1x60 min	Insights via volumetric comparison of polyhedral relaxations , <i>Organizer: Andrea Lodi</i> JON LEE, Insights via volumetric comparison of polyhedral relaxations		
We 1:30pm-2:30pm 1x60 min	Relaxations and Approximations of Chance Constraints , <i>Organizer: Simge Kucukyavuz</i> SHABBIR AHMED, Relaxations and Approximations of Chance Constraints		
Th 11:00am-12:00am 1x60 min	The BARON software for MINLP , <i>Organizer: Claudia D Ambrosio</i> NIKOLAOS SAHINIDIS, The BARON software for MINLP		
Th 1:30pm-2:30pm 1x60 min	Randomness, risk and electricity prices , <i>Organizer: Michael C Ferris</i> ANDY PHILPOTT, Randomness, risk and electricity prices		
Fr 11:00am-12:00am 1x60 min	Tseng Memorial Lectureship in Continuous Optimization , <i>Organizer: Yaxiang Yuan</i>		
Fr 1:30pm-2:30pm 1x60 min	Bounds for quantum graph parameters by conic and polynomial optimization , <i>Organizer: Frank Vallentin</i> MONIQUE LAURENT, Bounds for quantum graph parameters by conic and polynomial optimization		

Room	BROCA - Build W - 3rd floor - Zone 0		
Tu 11:00am-12:00am 1x60 min	Lower bounds on the size of linear programs , <i>Organizer: Volker Kaibel</i> THOMAS ROTHVOSS, Lower Bounds on the Size of Linear Programs		
We 11:00am-12:00am 1x60 min	Monotone Operator Theory in Convex Optimization , <i>Organizer: Samir Adly</i> PATRICK COMBETTES, Monotone Operator Theory in Convex Optimization		
Th 11:00am-12:00am 1x60 min	Cutting Planes in the Extended Space , <i>Organizer: Adam N Letchford</i> OKTAY GUNLUK, Cutting Planes in the Extended Space		
Fr 11:00am-12:00am 1x60 min	Modern Branch-and-Cut Implementation , <i>Organizer: Marc E Pfetsch</i> MATTEO FISCHETTI, Modern Branch-and-Cut Implementation		