

Room	Invited Talks - Monday 11:00 AM – 12:00 AM		
Auditorium Build Symph H, Z 0 Gambetta 1x60 min	On the relationship between machine learning and optimization , <i>Organizer: Michel Goemans, session 552</i> FRANCIS BACH, On the relationship between machine learning and optimization		PLENARY

Room	Invited Talks - Monday 1:30 PM – 2:30 PM		
Auditorium Build Symph H, Z 0 Gambetta 1x60 min	Multiobjective Optimization with PDE Constraints , <i>Organizer:</i> Stephen J Wright, session 550 MICHAEL HINTERMÜLLER, Multiobjective Optimization with PDE Constraints		SEMI
SIGALAS Build C, Z 2 2nd floor 1x60 min	What's happening in nonconvex optimization? A couple of stories , <i>Organizer:</i> Jean-Baptist Hiriart-Urruty, session 536 EMMANUEL CANDES, What's happening in nonconvex optimization? A couple of stories		KEYNOTE
DENIGES Build C, Z 5 Ground Floor 1x60 min	Theoretical Analysis of Cutting-Planes in IP Solvers. , <i>Organizer:</i> Gerard Cornuejols, session 538 SANTANU DEY, Theoretical Analysis of Cutting-Plane Selection in IP Solvers.		KEYNOTE

Discrete Optimization & Integer Programming - Monday 3:15 PM – 4:45 PM			
Salle 43 Build C, Z 1 3rd floor 3x30 min	Provable guarantees for Cut Generating Functions , <i>Organizer:</i> Amitabh Basu, session 220 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 IPtheory
Salle 44 Build C, Z 1 3rd floor 3x30 min	IP Practice I , <i>Chair:</i> Maurice Queyranne, session 506 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 IPpractice
Salle 39 Build E, Z 1 3rd floor 3x30 min	Exact Optimization Algorithms for Compressed Sensing , <i>Organizer:</i> Marc E Pfetsch, session 56 CHRISTOPH BRAUER, A primal-dual homotopy algorithm for sparse recovery with infinity-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 MINLP
Salle 34 Build B, Z 3 1st floor 3x30 min	Tight relaxations in nonconvex MINLP , <i>Organizer:</i> Ambros Gleixner, session 128 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 MINLP
Salle 35 Build B, Z 4 Intermediate 3x30 min	MINLP methods in gas transport optimization (I) , <i>Organizer:</i> Lars Schewe, session 162 LARS SCHEWE, MIP techniques for stationary 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 MINLP
LEYTEIRE Build E, Z 1 3rd floor 3x30 min	Geometry of Polynomials and Applications in Approximate Counting , <i>Organizer:</i> Shayan Oveis Gharan, session 99 GUUS REGTS, On a conjecture of Sokal on the location of roots of the independence polynomial	PIYUSH SRIVASTAVA, Zeros of polynomials and Ising partition functions	NIMA ANARI, A Deterministic Approximation Algorithm for Counting Bases of Matroids APPROX
Salle 36 Build B, Z 4 Intermediate 3x30 min	Matching and Matroids , <i>Organizer:</i> José A Soto, session 341 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 APPROX
SIGALAS Build C, Z 2 2nd floor 3x30 min	On the Tree Augmentation Problem , <i>Organizer:</i> Laura Sanità, session 240 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 COMB
Salle 41 Build C, Z 1 3rd floor 3x30 min	Scheduling with setup, uncertainty and precedences , <i>Organizer:</i> Monaldo Mastrolilli, session 419 KIM-MANUEL KLEIN, Empowering the Configuration-IP	NICOLE MEGOW, Scheduling under Explorable Uncertainty	JOSE VERSCHAE, Min-sum scheduling under precedence constraints COMB
DURKHEIM Build A, Z 1 3rd floor 3x30 min	Global Optimization , <i>Organizer:</i> Hassan Hijazi, session 299 ADAM OUOROU, A class of proximal algorithms based on Chebychev centers for nonsmooth convex optimization	KAARTHIK SUNDAR, Convex relaxations for Mixed-Integer Multilinear Functions	TILLMANN WEISSER, Sparse Certificates for Polynomial Optimization CP

Optimization under Uncertainty - Monday 3:15 PM – 4:45 PM				
Salle 32 Build B, Z 5 Ground Floor 3x30 min	Scenario discretization techniques in stochastic optimization. <i>Organizer:</i> Fabian Bastin, session 287 THUY ANH TA, On a two-stage stochastic optimization problem with stochastic constraints JULIEN KEUTGHAYAN, Multistage stochastic optimization: discretization of probability distributions MICHEL GENDREAU, Effective Heuristics for the Short-Term Hydro-Generation Planning Problem			Stoch
DENIGES Build C, Z 5 Ground Floor 3x30 min	Preference robust optimization. <i>Organizer:</i> Erick Delage, session 166 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			Robust
Salle 33 Build B, Z 5 Ground Floor 3x30 min	Distributionally Robust Optimization - New Theory and Applications. <i>Organizer:</i> Zhichao Zheng, session 356 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			Robust
Salle 31 Build B, Z 5 Ground Floor 3x30 min	Approximate dynamic programming. <i>Organizer:</i> David Brown, session 159 MARTIN HAUGH, Information Relaxation Bounds for Partially Observed Markov Decision Processes HUSEYIN TOPALOGLU, Approximate Dynamic Programming for Dynamic Assortment Optimization DAVID BROWN, Approximations to Stochastic Dynamic Programs via Information Relaxation Duality			Markov
Salle 30 Build B, Z 5 Ground Floor 3x30 min	Risk and Energy Markets. <i>Chair:</i> Julio Deride, session 376 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			Game

Continuous Optimization - Monday 3:15 PM – 4:45 PM			
GINTRAC Build Q, Z 8 Ground Floor 3x30 min	Polynomial and tensor optimization I , <i>Organizer:</i> Jiawang Nie, session 5 JEAN LASSERE, 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 NLP
Salle 05 Build Q, Z 11 1st floor 3x30 min	Convex regularization and inverse problems , <i>Organizer:</i> Pierre Weiss, session 216 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 NLP
Salle KC7 Build K, Z 10 Intermediate 2 3x30 min	Sparse Recovery , <i>Chair:</i> Mustafa C JOHN CHINNECK, LP-based Sparse Solutions Revisited	MUSTAFA PINAR, Sparse Recovery and Convex Quadratic Splines	OLOF TROENG, Efficient ℓ_0 Trend Filtering NLP
Salle 8 Build N, Z 12 4th floor 3x30 min	Nonconvex Optimization: Theory and Methods - Part 1 , <i>Organizer:</i> Shoham Sabach, session 184 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 NonSmooth
Salle 9 Build N, Z 12 4th floor 2x30 min	Adaptivity in non smooth optimization , <i>Organizer:</i> Masaru Ito, session 558 MASARU ITO, An adaptive first order method for weakly smooth and uniformly convex problems	SOMAYYA KOMAL, A Subgradient Algorithm for solving variational Inequality Problem	NonSmooth
Salle 20 Build G, Z 6 1st floor 3x30 min	Using SDP relaxations and solving them faster , <i>Organizer:</i> Elisabeth Gaar, session 113 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 SDP
Salle LC5 Build L, Z 10 Intermediate 1 3x30 min	Algorithms for nonlinear conic problems , <i>Chair:</i> Takayuki Okuno, session 463 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 SDP
Salle 06 Build Q, Z 11 1st floor 3x30 min	Proximal Methods for Structured Problems , <i>Organizer:</i> Ting Kei Pong, session 147 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 Variat
Salle ARNOZAN Build Q, Z 8 Ground Floor 3x30 min	Algorithms for optimization and variational problems with possibly nonisolated solutions I , <i>Organizer:</i> Andreas Fischer, session 152 NICO STRASDAT, A special complementarity function revisited	ALEXEY IZMAILOV, Critical solutions of nonlinear equations: attraction for Newton-type methods	ANDREAS FISCHER, Local attraction of Newton methods to critical solutions of constrained systems Variat
Salle KC6 Build K, Z 10 Intermediate 1 3x30 min	Coordinate Descent and Randomized Direct Search Methods , <i>Organizer:</i> Martin Takac, session 211 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 RandomM
Salle 21 Build G, Z 6 Intermediate 3x30 min	Mixed-integer derivative-free optimization , <i>Chair:</i> Clément Royer, session 80 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 DerFree
Salle AURIAC Build G, Z 6 1st floor 3x30 min	Theory and Methods for ODE- and PDE-Constrained Optimization I , <i>Chair:</i> Carl M Greiff, session 331 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 Control

Specific Models, Algorithms, and Software - Monday 3:15 PM – 4:45 PM			
FABRE Build J, Z 8 Ground Floor 3x30 min	Distributed Optimization , <i>Organizer:</i> Franck Iutzeler, session 325 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 Learning
Salle 16 Build I, Z 7 2nd floor 3x30 min	Decisions and learning from data , <i>Chair:</i> Christopher McCord, session 481 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 Learning
PITRES Build O, Z 8 Ground Floor 3x30 min	Facility Layout , <i>Chair:</i> Anders N Gullhav, session 450 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 Logistics
Salle 23 Build G, Z 6 3rd floor 3x30 min	Combinatorial Optimization in Chip Design , <i>Organizer:</i> Stefan Hougardy, session 257 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 Scheduling
Salle DENUCE Build Q, Z 8 Ground Floor 3x30 min	Progress in Algorithms for Optimal Power Flow Problems I , <i>Organizer:</i> Miguel F Anjos, session 8 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	MIGUEL F ANJOS, session 8 MOSTAFA SAHRAEI ARDAKANI, Coordinated Planning and Operation of M-FACTS and Transmission Switching Energy
Salle 24 Build G, Z 6 3rd floor 3x30 min	Topics in power systems , <i>Organizer:</i> Alberto J Lamadrid, session 438 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 Energy
Salle LA4 Build L, Z 8 Basement 3x30 min	Portfolio Optimization , <i>Chair:</i> Bernardo K. Pagnoncelli, session 393 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 Sciences
Salle 22 Build G, Z 6 2nd floor 2x30 min	Implementation of interior-point methods for large-scale problems and applications I , <i>Organizer:</i> Jordi Castro, session 353 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 Algo
Salle 18 Build I, Z 7 1st floor 3x30 min	Advances in Linear, Non Linear and Mixed-Integer Optimization , <i>Chair:</i> Hiroshige Dan, session 400 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 Algo

Discrete Optimization & Integer Programming - Monday 5:00 PM – 6:30 PM				
Salle 34 Build B, Z 3 1st floor 3x30 min	Lattice methods in Integer Optimisation , <i>Organizer:</i> Iskander Aliev, session 78 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	IPtheory
Salle 44 Build C, Z 1 3rd floor 4x20 min	Data Mining , <i>Chair:</i> Marcus V Poggi, session 504 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	IPpractice MARCUS POGGI, Cut and Column Generation for Process Discovery
Salle 36 Build B, Z 4 Intermediate 4x20 min	IP Practice II , <i>Chair:</i> Petra M. Bartmeyer, session 508 GAËL GUILLOT, 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	IPpractice PETRA BARTMEYER, A new approach to relax the binary variables on binary quadratic problems
DURKHEIM Build A, Z 1 3rd floor 3x30 min	Mixed-Integer Conic Optimization , <i>Organizer:</i> Sven Wiese, session 57 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	MINLP
Salle 39 Build E, Z 1 3rd floor 3x30 min	Polynomial optimization in binary variables , <i>Organizer:</i> Elisabeth Rodriguez-Heck, session 58 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	MINLP
Salle 35 Build B, Z 4 Intermediate 3x30 min	MINLP methods in gas transport optimization (II) , <i>Organizer:</i> Lars Schewe, session 163 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	MINLP
LEYTEIRE Build E, Z 1 3rd floor 3x30 min	Scheduling and File Migration , <i>Chair:</i> Asaf Levin, session 345 LILIANA GRIGORIU, Scheduling on Uniform Nonsimultaneous Parallel Machines	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	APPROX
Salle 43 Build C, Z 1 3rd floor 4x20 min	Algorithms for matching markets , <i>Organizer:</i> Amin Saberi, session 467 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	APPROX AMIN SABERI, Matching in dynamic environments
SIGALAS Build C, Z 2 2nd floor 4x20 min	Combinatorial optimization and convexity , <i>Chair:</i> Yu Yokoi, session 424 YUNI IWAMASA, Discrete convexity in binary VCSPs	FEI WANG, Low matrix completion by a majorized penalty approach	GEORG LOHO, Abstract tropical linear programming	COMB YU YOKOI, List Supermodular Coloring
Salle 41 Build C, Z 1 3rd floor 4x20 min	Practical aspects of network optimization , <i>Chair:</i> Kai Hoppmann, session 427 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	COMB KAI HOPPMANN, Pushing a Network to its Limits - Finding Maximum Min-Cost-Flows

Room				Optimization under Uncertainty - Monday 5:00 PM – 6:30 PM			
Salle 32	Distributionally Robust Stochastic Programming: Theory and Applications, <i>Organizer:</i> Ran Ji, session 250						Stoch
Build B, Z 5 Ground Floor 3x30 min	YILING ZHANG, Ambiguous Chance-constrained Binary Programs Under Mean-covariance Information	KARTHYEK MURTHY, Distributionally Robust Optimization with optimal transport (Wasserstein) costs	RAN JI, Distributionally Robust Chance-Constrained Optimization with Wasserstein Metric				
Salle 30	Differentiability, convexity, and modeling in stochastic optimization. <i>Chair:</i> Kai A. Spuerkel, session 493						Stoch
Build B, Z 5 Ground Floor 3x20 min	HOLGER HEITSCH, Stochastic optimization with probabilistic/robust (probest) constraints	PEDRO PEREZ-AROS, Subdifferential characterization of probability functions	KAI SPUERKEL, Strong Convexity in Stochastic Programming with Deviation Risk Measures				
DENIGES	Advances in Adjustable Robust Optimization. <i>Organizer:</i> Do Young Yoon, session 350						Robust
Build C, Z 5 Ground Floor 3x30 min	DICK DEN HERTOOG, Robust optimization for models with uncertain SOC and SDP constraints	ERNST ROOS, Approximation of uncertain convex inequalities	DO YOUNG YOON, Monitoring with Limited Information				
Salle 37	New models in robust optimization. <i>Chair:</i> Juan S Borrero, session 459						Robust
Build B, Z 4 Intermediate 3x20 min	JAEOYONG 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				
Salle 31	Learning and dynamic programming. <i>Chair:</i> Boxiao Chen, session 381						Markov
Build B, Z 5 Ground Floor 2x30 min	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					

Continuous Optimization - Monday 5:00 PM – 6:30 PM				
GINTRAC Build Q, Z 8 Ground Floor 3x30 min	Gradient Methods for Constrained Optimization Problems , <i>Organizer:</i> Igor Konnov, session 4 IGOR KONNOV, Simple Adaptive Versions of Iterative Optimization Methods	ALEXANDER ZASLAVSKI, Subgradient Projection Algorithm with Computational Errors	IGOR KONNOV, session 4 ANDREA CRISTOFARI, An active-set framework for minimizing nonconvex functions over the simplex	NLP
Salle 05 Build Q, Z 11 1st floor 4x20 min	Polynomial and tensor optimization III , <i>Organizer:</i> Jiawang Nie, session 7 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	NLP
Salle 9 Build N, Z 12 4th floor 3x20 min	Modeling in NLP , <i>Chair:</i> Laura Balzano, session 433 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	NLP
Salle 8 Build N, Z 12 4th floor 3x30 min	Extending the Reach of First-Order Methods, Part I , <i>Organizer:</i> Haihao Lu, session 285 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	NonSmooth
Salle 20 Build G, Z 6 1st floor 3x30 min	Solving large scale convex composite programming , <i>Organizer:</i> Kim-Chuan Toh, session 130 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	YANCHENG YUAN, An Efficient Semismooth Newton Based Algorithm for Convex Clustering	SDP
Salle LC5 Build L, Z 10 Intermediate 1 3x30 min	Convergence and Approximation in Conic Programming , <i>Chair:</i> Tamás Terlaky, session 465 NURI VANLI, Convergence Rate of Block Coordinate Ascent for Nonconvex Burer-Monteiro Method	YURI ZINCHENKO, Towards efficient approximation of p-cones	TAMÁS TERLAKY, Quadratic convergence to the optimal solution of second-order conic optimization	SDP
Salle 06 Build Q, Z 11 1st floor 4x20 min	Nonlinear Optimization and Variational Inequalities VI , <i>Organizer:</i> Cong Sun, session 146 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	Variat
Salle ARNOZAN Build Q, Z 8 Ground Floor 4x20 min	Variational Analysis 4 , <i>Organizer:</i> Jo A. Brueggemann, session 370 JO BRUEGGEMANN, Path-following method for a class of obstacle problems with integral constraints	YBOON GARCIA RAMOS, Nonconvex integration using ϵ -subdifferentials	YAKUI HUANG, A family of two-point step-size gradient methods	Variat
Salle KC6 Build K, Z 10 Intermediate 1 3x20 min	Complexity of Randomized Algorithms , <i>Organizer:</i> Raghu Pasupathy, session 347 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	RandomM
Salle 21 Build G, Z 6 Intermediate 3x30 min	Advances in DFO I , <i>Chair:</i> Sébastien Le Digabel, session 40 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	DerFree
Salle AURIAC Build G, Z 6 1st floor 4x20 min	Advances in optimization methods for time dependent problems:I , <i>Organizer:</i> Matthias Heinkenschloss, session 223 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	Control

Room					Specific Models, Algorithms, and Software - Monday 5:00 PM – 6:30 PM				
FABRE Build J, Z 8 Ground Floor 4x20 min	Riemannian geometry in optimization for learning. <i>Organizer:</i> Nicolas Boumal, session 320				Learning				
	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					
Salle DENUCE Build Q, Z 8 Ground Floor 4x20 min	Exploiting structure in constrained optimization. <i>Organizer:</i> Mihai Cucuringu, session 334				Learning				
	HEMANT TYAGI, 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 USCHMAJEW, On critical points of quadratic low-rank matrix optimization problems					
Salle 22 Build G, Z 6 2nd floor 4x20 min	Sparsity, variable selection and efficient algorithms. <i>Chair:</i> Alex Sholokhov, session 475				Learning				
	SAM TAJBAKSH, 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					
Salle 16 Build I, Z 7 2nd floor 3x20 min	Packing and Capacity Management. <i>Chair:</i> Eugene Zak, session 452				Logistics				
	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						
Salle 18 Build I, Z 7 1st floor 4x20 min	Manufacturing. <i>Chair:</i> Younsoo Lee, session 530				Scheduling				
	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					
Salle 23 Build G, Z 6 3rd floor 3x30 min	Novel data-driven OR techniques for power system operations and planning. <i>Organizer:</i> Juan M. Morales, session 52				Energy				
	SALVADOR PINEDA MORENTE, Chronological Time-Period Clustering for Optimal Capacity Expansion Planning	CHRISTOS ORDOUDIS, Energy and Reserve Dispatch with Distributionally Robust Joint Chance Constraints	JUAN MORALES, Predicting the electricity demand response via data-driven inverse optimization						
Salle 24 Build G, Z 6 3rd floor 3x30 min	Structure and Learning in Power Grid Optimization. <i>Organizer:</i> Deepjyoti Deka, session 135				Energy				
	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						
Salle LA4 Build L, Z 8 Basement 3x30 min	Structure from evidence. <i>Organizer:</i> Peter Gritzmann, session 386				Sciences				
	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						
PITRES Build O, Z 8 Ground Floor 3x30 min	Implementation of interior-point methods for large-scale problems and applications II. <i>Organizer:</i> Jordi Castro, session 352				Algo				
	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						

Discrete Optimization & Integer Programming - Tuesday 8:30 AM – 10:30 AM				
Salle 43 Build C, Z 1 3rd floor 4x30 min	Extended formulations , <i>Organizer:</i> Stefan Weltge, session 219 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 IPtheory
Salle 34 Build B, Z 3 1st floor 3x30 min	MIP under Uncertainty 1 , <i>Organizer:</i> Fatma Kilinc-Karzan, session 231	SHABBIR AHMED, Distributionally Robust Combinatorial Optimization	SIMGE KUCUKYAVUZ, Risk-Averse Set Covering Problems	RUIWEI JIANG, Mixed-Integer Recourse via Prioritization IPtheory
Salle 35 Build B, Z 4 Intermediate 4x30 min	Cutting Planes for Integer Programs , <i>Chair:</i> Matthias Köppe, session 512 JIAWEI WANG, Characterization and Approximation of General Dual-Feasible Functions	YUAN ZHOU, All finite group complexity in-joints	DANIEL PORUMBEL, Projective cutting-planes by projecting interior points onto polytope facets	MATTHIAS KÖPPE, cutgeneratingfunctionology: Python software for CGFs and super-additive duality IPtheory
Salle 44 Build C, Z 1 3rd floor 4x30 min	Machine Learning for Optimization , <i>Organizer:</i> Bistra Dilkina, session 138 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 IPpractice
LEYTEIRE Build E, Z 1 3rd floor 4x30 min	Streaming , <i>Organizer:</i> Michael Kapralov, session 228 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 APPROX
Salle 36 Build B, Z 4 Intermediate 4x30 min	Approximation Algorithms for Clustering , <i>Organizer:</i> Chaitanya Swamy, session 256 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 APPROX
SIGALAS Build C, Z 2 2nd floor 4x30 min	Matching games and beyond , <i>Organizer:</i> Jochen Koenemann, session 241 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 COMB
Salle 41 Build C, Z 1 3rd floor 4x30 min	Equilibrium Computation in Congestion Games , <i>Organizer:</i> Umang Bhaskar, session 242 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 COMB
Salle 39 Build E, Z 1 3rd floor 4x30 min	Exact approaches for problems over lattices and graphs , <i>Chair:</i> Daniele Catanzaro, session 425 AUSTIN BUCHANAN, Why is maximum clique often easy in practice?	MATTEO COSMI, Scheduling for Last-Mile Food Delivery	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 COMB
DURKHEIM Build A, Z 1 3rd floor 4x30 min	Graphical Optimization Model 1 , <i>Organizer:</i> Joris Kinable, session 295 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 CP

Room Optimization under Uncertainty - Tuesday 8:30 AM – 10:30 AM				
DENIGES Build C, Z 5 Ground Floor 4x30 min	Risk-averse stochastic programming , <i>Organizer:</i> Andrzej Ruszczyński, session 252			Stoch
	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 RUSZCZYŃSKI, Risk Disintegration with Application to Partially Observable Systems
Salle 37 Build B, Z 4 Intermediate 3x30 min	Nonlinear Optimization with Uncertain Constraints , <i>Organizer:</i> Charlie Vanaret, session 110			Robust
	ANDREAS WAECHTER, Nonlinear programming reformulations of chance constraints (Part 2)	NIKOS TRICHAKIS, Robustness of Static Pricing Policies in the Face of Strategic Customers	ALEJANDRA PENA-ORDIERES, Nonlinear programming reformulations of chance constraints (Part 1)	SVEN LEYFFER, Sequential Linearization for Nonlinear Robust Optimization
Salle 33 Build B, Z 5 Ground Floor 3x30 min	Robust Optimization and Operations Management , <i>Organizer:</i> Chaithanya Bandi, session 410			Robust
	MARCIN JURDZINSKI, Quasi-polynomial algorithms for solving parity games	ANTONIN KUCERA, One-Counter Stochastic Games with Zero-Reachability Objectives	OMAR BESBES, Prior-Independent Optimal Auctions	CHAITHANYA BANDI, Design and Control of Multi-class Queueing Networks via Robust Optimization
Salle 31 Build B, Z 5 Ground Floor 4x30 min	Algorithms for stochastic games : new approaches , <i>Organizer:</i> Hugo Gimbert, session 137			Markov
	VICTOR BUCAREY, Solving Strong Stackelberg Equilibrium in Stochastic Games	FRÄNK PLEIN, Models for the single-minded bundle pricing problem	MARCELLO MAMINO, Around tropically convex constraint satisfaction problems.	MATEUSZ SKOMRA, The condition number of stochastic mean payoff games
Salle 30 Build B, Z 5 Ground Floor 4x30 min	Algorithmic Game Theory I , <i>Organizer:</i> Luce Brotcorne, session 311			Game
			CONCEPCION DOMINGUEZ, Branch-and-cut algorithm for the Rank Pricing problem	YURY KOCHETOV, A matheuristic for the bilevel 0-1 public-private partnership problem

Continuous Optimization - Tuesday 8:30 AM – 10:30 AM				
GINTRAC Build Q, Z 8 Ground Floor 4x30 min	Stochastic and Nonlinear Optimization I , <i>Organizer:</i> Jorge Nocedal, session 47			NLP
	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
Salle 05 Build Q, Z 11 1st floor 4x30 min	Machine learning and sparse optimisation , <i>Organizer:</i> Coralia Cartis, session 109			NLP
	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
Salle KC7 Build K, Z 10 Intermediate 2 4x30 min	Unconstrained Optimization , <i>Chair:</i> Ekkehard Sachs, session 401			NLP
	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
Salle LC4 Build L, Z 9 Intermediate 1 4x30 min	Advances in Bundle Methods for Convex Optimization , <i>Organizer:</i> Christoph Helmberg, session 93			NonSmooth
	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
Salle 8 Build N, Z 12 4th floor 4x30 min	Addressing problems with complex geometries , <i>Organizer:</i> Edouard Pauwels, session 229			NonSmooth
	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
Salle 20 Build G, Z 6 1st floor 4x30 min	Algebraic and geometric aspects of semidefinite programming , <i>Organizer:</i> Hamza Fawzi, session 85			SDP
	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
Salle LC5 Build L, Z 10 Intermediate 1 4x30 min	Theory and algorithms in conic linear programming I , <i>Organizer:</i> Gabor Pataki, session 88			SDP
	HENRY WOLKOWICZ, Low-Rank Matrix Completion (LRMC) using Nuclear Norm (NN) with Facial Reduction	NEGAR SOHEILI, Solving conic systems via projection and rescaling	HENRIK FRIBERG, Projection and presolve in MOSEK: exponential and power cones	LEVENT TUNCEL, TOTAL DUAL INTEGRALITY FOR CONVEX, SEMIDEFINITE, AND EXTENDED FORMULATIONS
Salle 06 Build Q, Z 11 1st floor 4x30 min	Nonlinear Optimization and Variational Inequalities V , <i>Organizer:</i> Xin Liu, session 145			Variat
	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
Salle ARNOZAN Build Q, Z 8 Ground Floor 4x30 min	Optimization Algorithms and Variational Inequalities I , <i>Organizer:</i> Bo Jiang, session 148			Variat
	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
Salle KC6 Build K, Z 10 Intermediate 1 4x30 min	Larges Scale and Distributed Optimization , <i>Organizer:</i> Ermin Wei, session 214			RandomM
	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
Salle 21 Build G, Z 6 Intermediate 4x30 min	Bayesian and Randomized Optimization II , <i>Chair:</i> Youssef Diouane, session 79			DerFree
	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
Salle AURIAC Build G, Z 6 1st floor 4x30 min	Optimization Methods for PDE Constrained Problems , <i>Organizer:</i> Michael Ulbrich, session 221			Control
	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

Specific Models, Algorithms, and Software - Tuesday 8:30 AM – 10:30 AM				
FABRE Build J, Z 8 Ground Floor 4x30 min	Optimization in Statistical Learning , <i>Organizer:</i> Quentin Berthet, session 326 JONATHAN WEED, Near-linear time approximation algorithms for optimal transport	ANDREAS ELSENER, Sharp Oracle Inequalities for nonconvex M-estimators	ALEXANDRE D ASPREMONT, Sharpness, Restart and Compressed Sensing Performance	FAN YANG, Towards a deeper understanding of generalization for kernel learning <i>Learning</i>
Salle DENUCE Build Q, Z 8 Ground Floor 4x30 min	Statistics meets optimization: going beyond convexity , <i>Organizer:</i> John Duchi, session 337 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 <i>Learning</i>
Salle 22 Build G, Z 6 2nd floor 4x30 min	Pricing , <i>Chair:</i> Anastasiya Ivanova, session 478 ANASTASIYA IVANOVA, Distributed price adjustment for the resource allocation problem	YESMINE ROUIS, Price forecasting with machine learning algorithms for recommence activities	SARA CALLEJA, Volume forecasting with machine learning algorithms for recommence activities	SPYROS ZOUMPOULIS, Optimal Pricing and Introduction Timing of New Virtual Machines <i>Learning</i>
Salle 18 Build I, Z 7 1st floor 4x30 min	Path and tree problems , <i>Chair:</i> Arthur J Delarue, session 360 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 <i>Network</i>
Salle 16 Build I, Z 7 2nd floor 3x30 min	Facility Location , <i>Chair:</i> Ivan Contreras, session 414 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	<i>Logistics</i>
Salle 23 Build G, Z 6 3rd floor 4x30 min	Electric Vehicles and Decarbonization , <i>Chair:</i> Martim Joyce-Moniz, session 519 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 <i>Energy</i>
Salle 24 Build G, Z 6 3rd floor 4x30 min	Risk Models for Electricity Markets , <i>Chair:</i> Michael C Ferris, session 521 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 <i>Energy</i>
Salle LA4 Build L, Z 8 Basement 4x30 min	Interval Global Optimization , <i>Organizer:</i> Frederic Messine, session 339 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 <i>Sciences</i>
PITRES Build O, Z 8 Ground Floor 4x30 min	LP, Mixed Integer Convex Programming and Decomposition , <i>Organizer:</i> Thorsten Koch, session 236 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 <i>Algo</i>

Room	Invited Talks - Tuesday 11:00 AM – 12:00 AM		
Auditorium Build Symph H, Z 0 Gambetta 1x60 min	Adaptive Robust Optimization with Scenario-wise Ambiguity Sets , <i>Organizer:</i> Daniel Kuhn, session 551 MELVYN SIM, Adaptive Robust Optimization with Scenario-wise Ambiguity Sets		SEMI
DENIGES Build C, Z 5 Ground Floor 1x60 min	Asymptotic Lagrangian duality for nonsmooth optimization , <i>Organizer:</i> Xiaojun Chen, session 541 REGINA BURACHIK, Asymptotic Lagrangian duality for nonsmooth optimization		KEYNOTE
BROCA Build W, Z 0 3rd floor 1x60 min	Lower bounds on the size of linear programs , <i>Organizer:</i> Volker Kaibel, session 545 THOMAS ROTHVOSS, Lower Bounds on the Size of Linear Programs		KEYNOTE

Room	Invited Talks - Tuesday 1:30 PM – 2:30 PM		
Auditorium Build Symph H, Z 0 Gambetta 1x60 min	The Resurgence of Proximal Methods in Optimization , <i>Organizer:</i> Claudia Sagastizabal, session 555 MARC TEBoulLE, The resurgence of proximal methods in optimization		PLENARY

Discrete Optimization & Integer Programming - Tuesday 3:15 PM – 4:45 PM			
Salle 43 Build C, Z 1 3rd floor 3x30 min	MIP under Uncertainty 2 , <i>Organizer:</i> Simge Kucukyavuz, session 232 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. IPtheory
Salle 44 Build C, Z 1 3rd floor 3x30 min	Symmetry Handling in Integer Programs , <i>Organizer:</i> Christopher Hojny, session 129 CECILE ROTTNER, Breaking full-orbitopal 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 IPpractice
DURKHEIM Build A, Z 1 3rd floor 3x30 min	Applications in Mixed-Integer Quadratic Programming , <i>Organizer:</i> Boshi Yang, session 107 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 MINLP
Salle 34 Build B, Z 3 1st floor 3x30 min	Convex relaxations in MINLP , <i>Organizer:</i> Adam N Letchford, session 278 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 MINLP
Salle 35 Build B, Z 4 Intermediate 3x30 min	Applications of MINLP , <i>Organizer:</i> Dolores Romero Morales, session 281 CLAUDIA LÓPEZ, Packing problem as mixed integer non-linear model using formulation space search	STEFFEN REBENNACK, Piecewise Linear Function Fitting via Mixed-Integer Linear Programming	DOLORES ROMERO MORALES, Feature Selection for Benchmarking MINLP
LEYTEIRE Build E, Z 1 3rd floor 3x30 min	Algorithms in the Sharing Economy , <i>Organizer:</i> David Shmoys, session 22 ANTHONY KIM, Minimizing Latency in Online Ride and Delivery Services	ALICE PAUL, Broken Bike Docks and the Prize-Collecting Traveling Salesman Problem	DAVID SHMOYS, Allocating capacity in bike-sharing systems APPROX
Salle 36 Build B, Z 4 Intermediate 3x30 min	Local Search and Facility Location , <i>Organizer:</i> Felix Willamowski, session 342 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 APPROX
Salle 41 Build C, Z 1 3rd floor 3x30 min	New developments in prophet inequalities and related settings , <i>Organizer:</i> Ruben Hoeksma, session 258 ASHISH CHIPLUNKAR, Prophet Inequality and Prophet Secretary	BRENDAN LUCIER, Prophets, Secretaries, and Prices	TIM OOSTERWIJK, Posted Prices and Threshold Strategies for Random Arrivals COMB
Salle 39 Build E, Z 1 3rd floor 3x30 min	Submodular optimization and beyond , <i>Chair:</i> Satoru Iwata, session 418 MARTIN NÄGELE, Submodular Minimization Under Congruency Constraints	KENJIRO TAKAZAWA, The b -bibranching Problem: TDI System, Packing, and Discrete Convexity	SATORU IWATA, Index Reduction via Unimodular Transformations COMB

Room				Optimization under Uncertainty - Tuesday 3:15 PM – 4:45 PM			
Salle 32	Distributionally Robust and Stochastic Optimization: A Sampling/Scenario Perspective,						Stoch
Build B, Z 5 Ground Floor 3x30 min	Organizer: Guzin Bayraksan, session 249 ALEXANDER ZOLAN, Optimizing the Design of a Latin Hypercube Sampling Estimator for SAA		JUN-YA GOTOH, Out-of-sample analysis of distributionally robust optimization		GUZIN BAYRAKSAN, Effective Scenarios in Multistage Distributionally Robust Stochastic Programs		
Salle 33	Recent Advances in Robust Optimization I, Organizer: Phebe Vayanos, session 442						Robust
Build B, Z 5 Ground Floor 3x30 min	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		
DENIGES	Recent Advances in Robust Optimization II, Organizer: Wolfram Wiesemann, session 445						Robust
Build C, Z 5 Ground Floor 3x30 min	JIANZHE ZHEN, A Robust Optimization Perspective on Bilinear Programming		HUAIJIE QIAN, Calibrating Optimization under Uncertainty		WOLFRAM WIESEMANN, The Distributionally Robust Chance Constrained Vehicle Routing Problem		
Salle 31	Market places and dynamic programming, Chair: Dan A Iancu, session 380						Markov
Build B, Z 5 Ground Floor 3x30 min	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		
Salle 30	Game Theory and Energy Markets, Chair: Didier Aussel, session 375						Game
Build B, Z 5 Ground Floor 3x30 min	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		

Continuous Optimization - Tuesday 3:15 PM – 4:45 PM			
GINTRAC Build Q, Z 8 Ground Floor 3x30 min	Sum-of-squares and moment problems: methods and applications. <i>Organizer:</i> Etienne De Klerk, session 2 AMIR ALI AHMADI, LP, SOCP, and Optimization-Free Approaches to Polynomial Optimization	KRZYSZTOF POSTEK, Distributionally robust optimization with SOS polynomial density functions and m	GEORGINA HALL, Nonnegative polynomials, and applications to learning NLP
Salle KC7 Build K, Z 10 Intermediate 2 3x30 min	Bridging NLP and Theoretical Computer Science. <i>Organizer:</i> Aleksander Madry, session 51 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 NLP
Salle 05 Build Q, Z 11 1st floor 2x30 min	Interior Point Methods in Engineering Applications II. <i>Organizer:</i> Jacek Gondzio, session 61 MICHAL KOČVARA, A multigrid interior point method for large scale topology optimization	JACEK GONDZIO, Solving large-scale truss layout optimization problems by a primal-dual IPM	NLP
Salle 9 Build N, Z 12 4th floor 3x30 min	Linear Optimization III. <i>Chair:</i> Rodrigo Mendoza Smith, session 439 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 NLP
Salle 8 Build N, Z 12 4th floor 3x30 min	Nonconvex Optimization: Theory and Methods - Part 2. <i>Organizer:</i> Russell Luke, session 186 GUOYIN LI, Splitting methods for nonconvex feasibility problems	PATRICK JOHNSTONE, Projective Splitting with Forward Steps	RUSSELL LUKE, Convergence Analysis for Nonconvex Optimization Made Easy NonSmooth
Salle 20 Build G, Z 6 1st floor 3x30 min	Recent Advances in Conic Programming I. <i>Organizer:</i> Makoto Yamashita, session 82 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 SDP
Salle LC5 Build L, Z 10 Intermediate 1 3x30 min	Relative Entropy Optimization II. <i>Organizer:</i> Venkat Chandrasekaran, session 112 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 SDP
Salle 06 Build Q, Z 11 1st floor 3x30 min	Nonlinear Optimization and Variational Inequalities III. <i>Organizer:</i> Xin Liu, session 143 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 Variat
Salle KC6 Build K, Z 10 Intermediate 1 3x30 min	Recent Advances in Stochastic and Non-convex Optimization II. <i>Organizer:</i> Mingyi Hong, session 304 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 RandomM
Salle 21 Build G, Z 6 Intermediate 3x30 min	Advances in DFO II. <i>Chair:</i> Warren Hare, session 37 YVES LUCET, Variable-fidelity derivative-free algorithms for road design	MATT MENICKELY, Derivative-Free Robust Optimization by Outer Approximations	SÉBASTIEN LE DIGABEL, The Mesh Adaptive Direct Search algorithm for granular and discrete variables DerFree
Salle AURIAC Build G, Z 6 1st floor 3x30 min	Optimal Control and PDE Constrained Optimization. <i>Organizer:</i> Hasnaa Zidani, session 233 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 Control

Specific Models, Algorithms, and Software - Tuesday 3:15 PM – 4:45 PM				
Room				
Salle 16 Build I, Z 7 2nd floor 3x30 min	Distributed and Asynchronous Learning , <i>Organizer:</i> Ion Necoara, session 323 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	Learning
FABRE Build J, Z 8 Ground Floor 3x30 min	Advances in large-scale machine learning , <i>Organizer:</i> Mark Schmidt, session 327 FRANCIS BACH, Exponential convergence of testing error for stochastic gradient methods.	VOLKAN CEVHER, Mirrored Langevin Dynamics	ZAID HARCHAOU, Catalyst Acceleration for Gradient-based Optimization of Structured Models	Learning
Salle 22 Build G, Z 6 2nd floor 2x30 min	Learning for mixed integer optimization , <i>Chair:</i> Hari Bandi, session 482 HARI BANDI, Learning a Mixture of Gaussians via Mixed Integer Optimization	TAKANORI MAEHARA, Learning for Tuning Parameters of NUOPT MILP Solver		Learning
PITRES Build O, Z 8 Ground Floor 3x30 min	Pricing Methods , <i>Organizer:</i> Rafael Teobaldo Bulhões Júnior, A branch-and-price algorithm for the Minimum Latency Problem	Martinelli, session 182 JACQUES DESROSIERS, Pricing, cycles, and pivots	RUSLAN SADYKOV, Branch-Cut-and-Price Solver for Vehicle Routing Problems	Logistics
Salle 23 Build G, Z 6 3rd floor 3x30 min	Supply Chain and Lot Sizing , <i>Chair:</i> Simon Thevenin, session 534 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	Scheduling
Salle DENUCE Build Q, Z 8 Ground Floor 3x30 min	Equilibrium Modelling in Energy , <i>Organizer:</i> Thomas Kallabis, session 290 MIRJAM AMBROSIUS, Optimal Price Zones and Investment Incentives in Electricity Markets	THOMAS KALLABIS, Strategic generation investment using a stochastic rolling horizon MPEC approach	CHRISTOPH WEBER, Coordination Problems in the Coupling of Gas and Electricity Markets	Energy
Salle 24 Build G, Z 6 3rd floor 3x30 min	Optimization Models for Renewable Energy Integration 2 , <i>Chair:</i> Michel Denault, session 523 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	Energy
Salle LA4 Build L, Z 8 Basement 3x30 min	Optimization in Medicine , <i>Organizer:</i> Sebastian Sager, session 394 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	Sciences
Salle 18 Build I, Z 7 1st floor 3x30 min	Optimization software and applications , <i>Chair:</i> Bartolomeo Stellato, session 399 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	Algo

Room	Invited Talks - Tuesday 3:15 PM – 4:45 PM		
SIGALAS Build C, Z 2 2nd floor	A.W. Tucker Prize Session, <i>Chair:</i> Simge Kucukyavuz, session 559		INTERFACE

Discrete Optimization & Integer Programming - Wednesday 8:30 AM – 10:30 AM				
Salle 43 Build C, Z 1 3rd floor 4x30 min	Determinantal structures of IPs. <i>Organizer:</i> Martin Henk, session 131 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 IPtheory
Salle 35 Build B, Z 4 Intermediate 4x30 min	Advances in Integer Programming. <i>Organizer:</i> Santanu S Dey, session 230 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 IPtheory
Salle 42 Build C, Z 1 3rd floor 4x30 min	Primal Algorithms for Integer Programming Problems. <i>Organizer:</i> Daniel Aloise, session 338 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 IPtheory
Salle 44 Build C, Z 1 3rd floor 4x30 min	Benders Decomposition for Combinatorial and Bilevel Optimization. <i>Organizer:</i> Fabio Furini, session 171 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 IPpractice
Salle 34 Build B, Z 3 1st floor 3x30 min	MINLP (I). <i>Organizer:</i> Daniel Bienstock, session 65	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 MINLP
LEYTEIRE Build E, Z 1 3rd floor 4x30 min	Approximation Algorithms for the Traveling Salesman Problem. <i>Organizer:</i> Anke van Zuylen, session 23 STEPHAN HELD, Vehicle Routing with Sub-tours	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 APPROX
Salle 36 Build B, Z 4 Intermediate 4x30 min	Approximation Algorithms for Scheduling Problems. <i>Organizer:</i> Nicole Megow, session 72 RUBEN HOEKSMAN, 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 APPROX
Salle 41 Build C, Z 1 3rd floor 4x30 min	Discrete Convex Analysis. <i>Organizer:</i> Akiyoshi Shioura, session 243 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 COMB
Salle 39 Build E, Z 1 3rd floor 4x30 min	Optimization under uncertainty. <i>Organizer:</i> Marco Molinaro, session 261 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 COMB
DURKHEIM Build A, Z 1 3rd floor 4x30 min	Learning in CP. <i>Organizer:</i> Arnaud Lallouet, session 301 NADJIB LAZAAR, Constraint acquisition	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 CP

Room	Optimization under Uncertainty - Wednesday 8:30 AM – 10:30 AM			
DENIGES Build C, Z 5 Ground Floor 4x30 min	Chance Constraint and Its Applications, Organizer: Jianqiang Cheng, session 253 Stoch			
	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
Salle 32 Build B, Z 5 Ground Floor 3x30 min	Sampling and stability in stochastic optimization, Chair: Harsha Honnappa, session 488 Stoch			
	EDWARD ANDERSON, Distributional Robustness and Sample Average Approximation	MATTHIAS CLAUS, On stability of stochastic bilevel programs with risk aversion	GERARD CORNUEJOLS, From Estimation to Optimization via Shrinkage	
Salle 37 Build B, Z 4 Intermediate 4x30 min	Interfaces of Applied Probability and Optimization, Organizer: Omar El Housni, session 409 Robust			
	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
Salle 33 Build B, Z 5 Ground Floor 4x30 min	Robust combinatorial optimization IV, Chair: Arie Koster, session 449 Robust			
	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
Salle 30 Build B, Z 5 Ground Floor 4x30 min	Risk and Financial Markets, Chair: Markku J Kallio, session 377 Game			
	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

Continuous Optimization - Wednesday 8:30 AM – 10:30 AM				
GINTRAC Build Q, Z 8 Ground Floor 4x30 min	Stochastic and Nonlinear Optimization III, Organizer: Jorge Nocedal, session 31 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 NLP
Salle 05 Build Q, Z 11 1st floor 4x30 min	Optimality conditions in NLP and conic problems, Organizer: Roberto Andreani, session 43 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 NLP
Salle KC7 Build K, Z 10 Intermediate 2 4x30 min	Computational advances in NLP, Chair: Jeffrey CH Pang, session 434 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 NLP
Salle 9 Build N, Z 12 4th floor 4x30 min	Fixed Point Approaches, Chair: Poom Kumam, session 435 KONRAWUT KHAMMAHAWONG, Convergence analysis of S-iteration process for discontinuous operators	POOM KUMAM, A new algorithms for split feasibility problems involving paramonotone equilibria	KHANITIN MUANGCHOO-IN, Fixed point and convergence theorems for monotone (α, β) -nonexpansive	WUDTHICHAI ONSOD, Monotone generalized almost contraction on weighted graph NLP
Salle LC4 Build L, Z 9 Intermediate 1 4x30 min	Recent advances in first-order algorithms for non-smooth optimization, Organizer: Thomas Pock, session 198 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 NonSmooth
Salle 8 Build N, Z 12 4th floor 4x30 min	Dynamical Systems and Optimization, Organizer: Hedy Attouch, session 351 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 NonSmooth
Salle AURIAC Build G, Z 6 1st floor 4x30 min	Recent Advances in Conic Programming II, Organizer: Sena Safarina, session 83 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 CAVALLEIRO, A Simplex-like algorithm for the infimum point w.r.t. the second order cone SDP
Salle 20 Build G, Z 6 1st floor 4x30 min	Theory and algorithms in conic linear programming 2, Organizer: Gabor Pataki, session 89 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 SDP
Salle LC5 Build L, Z 10 Intermediate 1 4x30 min	New trends II, Chair: Frank Permenter, session 500 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 SDP
Salle 06 Build Q, Z 11 1st floor 2x30 min	Stochastic Optimization and Variational Inequalities II, Organizer: Alejandro R. Jofre, session 156		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 Variat
Salle ARNOZAN Build Q, Z 8 Ground Floor 4x30 min	Variational Analysis I, Organizer: Samir Adly, session 364 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. Variat
Salle KC6 Build K, Z 10 Intermediate 1 4x30 min	First Order Methods for Non-Smooth Constrained Optimization, Organizer: Qihang Lin, session 305 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	DAOLI ZHU, Stochastic Primal-Dual Coordinate Method for Nonlinear Convex Cone Programs RandomM
Salle 21 Build G, Z 6 Intermediate 4x30 min	New derivative-free algorithms, Chair: Margherita Porcelli, session 34 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 DerFree

Room				Specific Models, Algorithms, and Software - Wednesday 8:30 AM – 10:30 AM									
Salle 16 Build I, Z 7 2nd floor 3x30 min		First-Order Methods for Machine Learning , <i>Organizer:</i> Fabian Pedregosa, session 319		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		Learning			
FABRE Build J, Z 8 Ground Floor 4x30 min		Structured Optimization for Machine Learning and Signal Processing , <i>Organizer:</i> Lin Xiao, session 330		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		Learning	
Salle 18 Build I, Z 7 1st floor 4x30 min		Robust network optimization , <i>Organizer:</i> Dimitri Papadimitriou, session 357		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 PAPADIMITRIOU, Reliable Multi-level Facility Location Problem (MFLP)		Network	
Salle DENUCE Build Q, Z 8 Ground Floor 4x30 min		Decomposition Techniques to Solve Large-Scale Optimization Problems for Electricity and Natural Gas Systems , <i>Organizer:</i> Ramteen Sioshansi, session 136		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		Energy	
Salle 23 Build G, Z 6 3rd floor 4x30 min		Energy-aware planning and scheduling 1 , <i>Organizer:</i> Sandra U. Ngueveu, session 177		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		Energy	
Salle 24 Build G, Z 6 3rd floor 4x30 min		Distribution and Demand Flexibility , <i>Chair:</i> Golbon Zakeri, session 510		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		Energy	
Salle LA4 Build L, Z 8 Basement 3x30 min		Energy markets , <i>Organizer:</i> Martine Labbé, session 50		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		Sciences			
PITRES Build O, Z 8 Ground Floor 3x30 min		Progress in MIP Solvers I , <i>Organizer:</i> Michael Winkler, session 235		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		Algo			
Salle 22 Build G, Z 6 2nd floor 4x30 min		Numerically Efficient Methods for Piecewise Algorithmic Differentiation I , <i>Organizer:</i> Torsten F Bosse, session 269		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		Algo	

Room	Invited Talks - Wednesday 8:30 AM – 10:30 AM			
SIGALAS Build C, Z 2 2nd floor 4x30 min	Stochastic optimization , <i>Chair</i> : Alexei A. Gaivoronski, session 314 BERNARDO COSTA, Using disjunctive programming to represent Risk Aversion policies	ANTHONY DOWNWARD, SDDP with stagewise-dependent objective coefficient uncertainty	ALEXEI GAIVORONSKI, Stochastic optimization of simulation models: management of	INTERFACE KAZEM ABBASZADEH, Demand Response To Electricity Prices In Flexible Manufacturing

Room		Invited Talks - Wednesday 11:00 AM – 12:00 AM		
Auditorium Build Symph H, Z 0 Gambetta 1x60 min	Insights via volumetric comparison of polyhedral relaxations , <i>Organizer: Andrea Lodi</i> , session 548 JON LEE, Insights via volumetric comparison of polyhedral relaxations			SEMI
BROCA Build W, Z 0 3rd floor 1x60 min	Monotone Operator Theory in Convex Optimization , <i>Organizer: Samir Adly</i> , session 537 PATRICK COMBETTES, Monotone Operator Theory in Convex Optimization			KEYNOTE
DENIGES Build C, Z 5 Ground Floor 1x60 min	Online Competitive Algorithms for Resource Allocation , <i>Organizer: Frank E. Curtis</i> , session 539 MARYAM FAZEL, Online Competitive Algorithms for Resource Allocation			KEYNOTE
LEYTEIRE Build E, Z 1 3rd floor 1x60 min	Model-Based Methods, Sampling Models, and A New Second-Order Model-Based Method , <i>Organizer: Stefan M Wild</i> , session 546 LUIS NUNES VICENTE, Model-Based Methods, Sampling Models, and A New Second-Order Model-Based Method			KEYNOTE

Room	Invited Talks - Wednesday 1:30 PM – 2:30 PM		
Auditorium Build Symph H, Z 0 Gambetta 1x60 min	Relaxations and Approximations of Chance Constraints , <i>Organizer: Simge Kucukyavuz, session 525</i> SHABIR AHMED, Relaxations and Approximations of Chance Constraints		PLENARY

Room	Discrete Optimization & Integer Programming - Wednesday 3:15 PM – 4:45 PM			
Salle 44 Build C, Z 1 3rd floor 3x30 min	Knapsack Problems , <i>Organizer:</i> Enrico Malaguti, session 185 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	IPpractice
Salle 36 Build B, Z 4 Intermediate 3x30 min	Decomposition I , <i>Chair:</i> Dieter Weninger, session 486 KEREM BULBUL, Benders Decomposition and Column-and-Row Generation for LPs w/Column-Dependent Rows	PAUL STURTSBERG, Improved Cut Selection for Benders Decomposition	DIETER WENINGER, A Penalty Alternating Direction Decomposition Framework for MIPs	IPpractice
DURKHEIM Build A, Z 1 3rd floor 3x30 min	Decomposition methods for MINLP , <i>Organizer:</i> Ivo Nowak, session 55 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	MINLP
Salle 34 Build B, Z 3 1st floor 3x30 min	MINLP (II) , <i>Organizer:</i> Daniel Bienstock, session 66 AKSHAY GUPTA, Polyhedral relaxations for nonconvex quadratic functions	MOHIT TAWARMALANI, Product convexification: A new relaxation framework for non-convex programs	JAVAD LAVAEI, Sparse conic optimization: low-rank solutions and near-linear time algorithms	MINLP
Salle 35 Build B, Z 4 Intermediate 3x30 min	MINLP for Data Science , <i>Organizer:</i> Vanesa Guerrero, session 108 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	MINLP
LEYTEIRE Build E, Z 1 3rd floor 3x30 min	Clustering , <i>Organizer:</i> Mohammad R Salavatipour, session 30 ARAVINDAN VIJAYARAGHAVAN, Clustering Mixtures of Well-Separated Gaussians	KONSTANTIN MAKARYCHEV, Correlation Clustering	MELANIE SCHMIDT, Analysis of Ward's method	APPROX
Salle 43 Build C, Z 1 3rd floor 3x30 min	Network Design and Routing , <i>Chair:</i> Yuko Kuroki, session 346 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	APPROX
Salle 41 Build C, Z 1 3rd floor 3x30 min	Variants of the Assignment problem , <i>Organizer:</i> Kavitha Telikepalli, session 266 TOBIAS MÖMKE, Approximating Airports and Railways	AMI PAZ, A $(2+\epsilon)$ -Approximation for Maximum Weight Matching in the Semi-Streaming Model	KAVITHA TELIKEPALLI, Popularity, Mixed Matchings, and Self-duality	COMB
Salle 39 Build E, Z 1 3rd floor 3x30 min	Polyhedral aspects of combinatorial optimization problems , <i>Chair:</i> Guillaume Duvillié, session 404 SHUNGO KOICHI, A polyhedral insight into covering a $2/3$ supermodular function by a graph	SERGEI CHUBANOV, Alternating contractions and their combinatorial applications	GUILLERME DUVILLIÉ, Comparison of some symmetry breaking techniques for graph coloring problem	COMB

Room				Optimization under Uncertainty - Wednesday 3:15 PM – 4:45 PM			
Salle 32 Build B, Z 5 Ground Floor 3x30 min	Learning and Stochastic Programming , <i>Organizer:</i> Matthias Poloczek, session 254 JUNYI LIU, Asymptotic Results For Two-stage Stochastic Quadratic Programming			HAOXIANG YANG, Optimizing Crashing Decisions in a Project Management Problem with Disruptions	MATTHIAS POLOCZEK, Bayesian Optimization of Combinatorial Structures	Stoch	
DENIGES Build C, Z 5 Ground Floor 3x30 min	Dynamic Optimization: Theory and Algorithms , <i>Organizer:</i> Vineet Goyal, session 100 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	Robust	
Salle 37 Build B, Z 4 Intermediate 3x30 min	Cursing the Dimensionality: Two-Stage and Multi-Stage Robust Optimization , <i>Organizer:</i> Angelos Tsoukalas, session 443 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	Robust	
Salle 31 Build B, Z 5 Ground Floor 2x30 min	Dynamic programming applications , <i>Chair:</i> Susanne Hoffmeister, session 379 SUSANNE HOFFMEISTER, Markov Decision Processes for Sport Strategy Optimization			PAOLO SERAFINI, A Model to evaluate the cost-effectiveness trade-off for urologic treatments	Markov		
Salle 30 Build B, Z 5 Ground Floor 3x30 min	Nonconvex and Complex Problems in Multiobjective Optimization , <i>Chair:</i> Gabriele Eichfelder, session 268 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	Game	

Continuous Optimization - Wednesday 3:15 PM – 4:45 PM			
GINTRAC Build Q, Z 8 Ground Floor 3x30 min	The power and limits of the Lasserre hierarchy , <i>Organizer:</i> Markus Schweighofer, session 9 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.	MONALDO MASTROLILLI, High Degree SOS Proofs, Bienstock-Zuckerberg hierarchy and Chvatal-Gomory cuts
Salle 05 Build Q, Z 11 1st floor 3x30 min	Subspace methods in NLP I , <i>Organizer:</i> Michal Kocvara, session 45 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
Salle 9 Build N, Z 12 4th floor 3x30 min	Quadratic Optimization , <i>Chair:</i> Anders Forsgren, session 417 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
Salle 8 Build N, Z 12 4th floor 3x30 min	Adaptivity in non-smooth optimization , <i>Organizer:</i> Volkan Cevher, session 187 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
Salle 20 Build G, Z 6 1st floor 3x30 min	SDP approaches to combinatorial and global optimization problems , <i>Organizer:</i> Etienne De Klerk, session 15 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
Salle LC5 Build L, Z 10 Intermediate 1 3x30 min	Reformulation-based solution methods for quadratic programming , <i>Organizer:</i> Dominique Quadri, session 215 ERIC SOUTIL, Non-convex Quadratic Integer Programming : a piecewise linearization	HADRIEN GODARD, Solving Alternative Current Optimal Power Flow to global optimality	SOUROUR ELLOUMI, Preprocessing and reformulation for the Quadratic Assignment Problem
Salle 06 Build Q, Z 11 1st floor 3x30 min	Optimization Algorithms and Variational Inequalities II , <i>Organizer:</i> Xiaoqi Yang, session 150 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
Salle ARNOZAN Build Q, Z 8 Ground Floor 3x30 min	Nash equilibrium and games I , <i>Organizer:</i> Lorenzo Lampariello, session 365 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
Salle KC6 Build K, Z 10 Intermediate 1 3x30 min	Fast Converging Stochastic Optimization Algorithms , <i>Organizer:</i> Francis Bach, session 213 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
Salle 21 Build G, Z 6 Intermediate 3x30 min	Surrogate-based algorithms for constrained derivative-free problems , <i>Chair:</i> Phillippe R. Sampaio, session 126 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
Salle AURIAC Build G, Z 6 1st floor 3x30 min	Risk-Averse PDE-Constrained Optimization-Methods and Applications , <i>Organizer:</i> Harbir Antil, session 222 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

Room				Specific Models, Algorithms, and Software - Wednesday 3:15 PM – 4:45 PM			
Salle DENUCE Build Q, Z 8 Ground Floor 3x30 min	Second order methods for training ML models , <i>Chair</i> : Julien Mairal, session 474 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				Learning
FABRE Build J, Z 8 Ground Floor 3x30 min	Convex optimization, distances and constraints , <i>Chair</i> : Pablo A Parrilo, session 476 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				Learning
Salle 16 Build I, Z 7 2nd floor 3x30 min	Rail and Maritime Transportation , <i>Chair</i> : Kazuhiro Kobayashi, session 454 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				Logistics
Salle 18 Build I, Z 7 1st floor 3x30 min	Scheduling in Networks , <i>Chair</i> : Hamish Waterer, session 532 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				Scheduling
Salle 23 Build G, Z 6 3rd floor 3x30 min	Conic Optimization and Power Systems , <i>Organizer</i> : Jakub Marecek, session 68 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				Energy
Salle 24 Build G, Z 6 3rd floor 2x30 min	Emerging Energy Markets , <i>Organizer</i> : Dennice F. Gayme, session 291 MARYAM KAMGARPOUR, Designing coalition-proof mechanisms - the case of electricity markets	SEAN MEYN, Irrational Agents and the Power Grid					Energy
Salle LA4 Build L, Z 8 Basement 3x30 min	Air Transportation and Air Traffic Management , <i>Organizer</i> : Sonia Cafieri, session 315 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				Sciences
PITRES Build O, Z 8 Ground Floor 3x30 min	Progress in Conic and MIP Solvers , <i>Organizer</i> : Imre Polik, session 237 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				Algo
Salle 22 Build G, Z 6 2nd floor 3x30 min	Structure Detection in Integer Programming , <i>Organizer</i> : Taghi Khaniyev, session 272 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				Algo

Room	Invited Talks - Wednesday 3:15 PM – 4:45 PM			
SIGALAS Build C, Z 2 2nd floor 3x30 min	Logistics, Chair: Frieder Smolny, session 388 KAJ HOLMBERG, Using OpenStreetMap data for route optimization: extraction and reduction	GWÉNAÉL RAULT, Modeling the Periodic Vehicle Routing Problem in an industrial context	FRIEDER SMOLNY, Multiscale optimization of logistics networks	INTERFACE

Room				Discrete Optimization & Integer Programming - Wednesday 5:00 PM – 6:30 PM			
Salle 43	Build C, Z 1 3rd floor 2x30 min	IP-Formulations , <i>Chair</i> : Temitayo Ajayi, session 516 WOLFGANG RIEDL, The quadratic assignment problem: a comparison of two linearizations TEMITAYO AJAYI, Assessing Parametrized Linear Programming Relaxations With Superadditive Duality				IPtheory	
Salle 44	Build C, Z 1 3rd floor 3x30 min	Exact Approaches for Vehicle Routing and Variants , <i>Organizer</i> : Ricardo Fukasawa, session 288 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				IPpractice	
DURKHEIM	Build A, Z 1 3rd floor 3x30 min	MINLP (III) , <i>Organizer</i> : Daniel Bienstock, session 67 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				MINLP	
Salle 34	Build B, Z 3 1st floor 3x30 min	Robust Approaches for Challenging Uncertain Optimization Problems , <i>Organizer</i> : Frauke Liers, session 124 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				MINLP	
Salle 35	Build B, Z 4 Intermediate 3x30 min	Advances in MINLP , <i>Organizer</i> : Laura Palagi, session 165 MARIANNA DE SANTIS, An Active Set Algorithm for Robust Combinatorial Optimization VERONICA PICCIALLI, Membrane System Design Optimization EMILIANO TRAVERSI, Dantzig Wolfe Decomposition for Binary Quadratic Programming				MINLP	
LEYTEIRE	Build E, Z 1 3rd floor 3x30 min	Approximation Algorithms for Geometric Packing Problems , <i>Organizer</i> : Fabrizio Grandoni, session 28 FABRIZIO GRANDONI, Approximating Geometric Knapsack via L-Packings ANDREAS WIESE, Parameterized (1+eps)-approximation algorithms for packing problems KLAUS JANSEN, Closing the gap for pseudo-polynomial strip packing				APPROX	
Salle 36	Build B, Z 4 Intermediate 3x30 min	Online Optimization , <i>Organizer</i> : Kevin Schewior, session 35 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				APPROX	
Salle 41	Build C, Z 1 3rd floor 4x20 min	Connectivity problems and Steiner trees , <i>Chair</i> : Andreas E Feldmann, session 421 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				COMB	
Salle 39	Build E, Z 1 3rd floor 4x20 min	Shortest paths and cutting stock , <i>Chair</i> : Arnaud Vandaele, session 426 PEDRO DE LAS CASAS, Cost Projection Methods for the Shortest Path Problem with Crossing Costs ADAM SCHENLE, 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				COMB	

Room Optimization under Uncertainty - Wednesday 5:00 PM – 6:30 PM					
DENIGES	Stochastic Programming and Distributionally Robust Optimization Models with Endogenous Uncertainty , Organizer: Miguel Lejeune, session 248				Stoch
Build C, Z 5 Ground Floor 3x30 min	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		
Salle 32	Stochastic optimization models and applications , Chair: F.-Javier Heredia, session 495				Stoch
Build B, Z 5 Ground Floor 4x20 min	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	
Salle 37	Robust Adaptive Control and Learning , Organizer: Siqian Shen, session 97				Robust
Build B, Z 4 Intermediate 2x30 min	SIQIAN SHEN, Distributionally Robust Adaptive Control under Nonstationary Uncertainty	LAUREN STEIMLE, Leveraging stochastic programming to design robust policies for Markov decision			
Salle 33	Robust combinatorial optimization III , Organizer: Moritz Mühlenthaler, session 255				Robust
Build B, Z 5 Ground Floor 4x20 min	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	
Salle 30	Aspects of Multiobjective Combinatorial Optimization , Organizer: Matthias Ehrgott, session 87				Game
Build B, Z 5 Ground Floor 3x30 min	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 Multi-objective Shortest Path Problem in Practice		

Room	Continuous Optimization - Wednesday 5:00 PM – 6:30 PM			
GINTRAC Build Q, Z 8 Ground Floor 3x30 min	Software for Nonlinear Optimization. <i>Organizer:</i> Sven Leyffer, session 133 CHARLIE VANARET, Argonot: An Open-Source Software Framework for Nonlinear Optimization PHILIP GILL, A Primal-Dual Shifted Barrier Method for Nonlinear Optimization ELIZABETH WONG, L-RH-B: Software for Large-Scale Bound-Constrained Optimization			NLP
Salle 05 Build Q, Z 11 1st floor 3x30 min	Conjugate Gradient Methods. <i>Chair:</i> Giovanni Fasano, session 362 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			NLP
Salle 9 Build N, Z 12 4th floor 3x30 min	Linear Optimization II. <i>Chair:</i> Julian Hall, session 416 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			NLP
Salle ARNOZAN Build Q, Z 8 Ground Floor 3x30 min	Interior Point Methods in LP and NLP. <i>Chair:</i> Andre L Tits, session 430 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			NLP
Salle 8 Build N, Z 12 4th floor 3x30 min	Methods and Analysis for Nonsmooth Optimization. <i>Organizer:</i> Michael L Overton, session 86 MICHAEL OVERTON, Partial Smoothness of the Numerical Radius ADRIAN LEWIS, Partial smoothness and active sets: a fresh approach DMITRIY DRUSVYATSKIY, Subgradient methods for sharp weakly convex problems			NonSmooth
Salle 20 Build G, Z 6 1st floor 3x30 min	Noncommutative polynomial optimization: semidefinite relaxations, free convexity and applications to quantum information I. <i>Organizer:</i> Monique Laurent, session 20 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 noncommutative GNS construction is robust			SDP
Salle LC5 Build L, Z 10 Intermediate 1 4x20 min	Completely Positive Cones and Applications. <i>Chair:</i> Patrick Groetzner, session 464 MUHAMMAD IQBAL, Approximation Hierarchies for Copositive and Completely Positive Tensor Cones MINA SAEED 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			SDP
Salle 06 Build Q, Z 11 1st floor 3x30 min	Complementarity Problems. <i>Organizer:</i> Samir K. Neogy, session 173 MUDDAPPA 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			Variat
Salle KC6 Build K, Z 10 Intermediate 1 4x20 min	Non-Convex and Second-order Methods in Machine Learning. <i>Organizer:</i> Martin Takac, session 33 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			RandomM
Salle 21 Build G, Z 6 Intermediate 3x30 min	Progress in methods and theory of derivative-free optimization. <i>Chair:</i> Serge Gratton, session 42 CHARLES AUDET, Mesh-based Nelder-Mead algorithm for inequality constrained optimization JEFFREY LARSON, Manifold Sampling for Nonconvex Optimization of Piecewise Linear Compositions MORTEZA KIMIAEI, Competitive derivative-free optimization with optimal complexity			DerFree
Salle AURIAC Build G, Z 6 1st floor 4x20 min	Advances in optimization methods for time dependent problems II. <i>Organizer:</i> Denis Ridzal, session 225 STEFAN ULBRICH, Preconditioners for unsteady PDE-constrained optimization and parallel variants SEBASTIAN GOETSCHEL, Parallel-in-time PDE-constrained optimization using PFASSST ANDREAS POTSCSKA, Direct Multiple Shooting for parabolic PDE constrained optimization DENIS RIDZAL, Multigrid-in-time methods for optimization with nonlinear PDE/DAE constraints			Control

Specific Models, Algorithms, and Software - Wednesday 5:00 PM – 6:30 PM				
FABRE Build J, Z 8 Ground Floor 3x30 min	Problems in the intersection of machine learning and optimization, Chair: Ross M Anderson, session 328 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			Learning
Salle 22 Build G, Z 6 2nd floor 2x20 min	Large-scale convex optimization, Chair: Alexander V. Rogozin, session 479 ALEXANDER ROGOZIN, Optimal distributed convex optimization on slowly time-varying graphs TOMMASO COLOMBO, Leverage data structure to improve Stochastic Gradient Descent algorithm			Learning
Salle 24 Build G, Z 6 3rd floor 4x20 min	Location and Routing, Chair: Mustapha Oudani, session 451 IMEN BEN MOHAMED, Stochastic Two-echelon Location-Routing RASUL ESMAILBEIGI, 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			Logistics
Salle 16 Build I, Z 7 2nd floor 3x20 min	Production-Routing, Chair: Feng Gao, session 456 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			Logistics
Salle 18 Build I, Z 7 1st floor 3x20 min	Machine Scheduling 2, Chair: Guopeng Song, session 529 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			Scheduling
Salle DENUCE Build Q, Z 8 Ground Floor 4x20 min	Optimization and modeling of integrated energy systems, Organizer: Jalal Kazempour, session 71 STEFANOS DELIKARAOULOU, 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			Energy
Salle 23 Build G, Z 6 3rd floor 3x30 min	Energy Market Models, Chair: Sauleh A Siddiqui, session 522 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			Energy
Salle LA4 Build L, Z 8 Basement 3x30 min	Resource-constrained assignment and scheduling, Organizer: Fabian Bastin, session 398 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			Sciences
PITRES Build O, Z 8 Ground Floor 3x30 min	Progress in MIP Solvers II, Organizer: Hans Mittelmann, session 234 ANDREA TRAMONTANI, Benders Decomposition in IBM CPLEX MICHAEL WINKLER, Gurobi 8.0 - What's new MICHAEL PERREGAARD, Recent Progress in the Xpress Solvers			Algo

Invited Talks - Wednesday 5:00 PM – 6:30 PM				
Room				
SIGALAS Build C, Z 2 2nd floor 4x20 min	Solvers and softwares , <i>Chair</i> : François Clautiaux, session 390			INTERFACE
	JULIEN DARLAY, Solving packing, routing and scheduling problems using Local-Solver	PAWEŁ LIČOCKI, 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

Room	Discrete Optimization & Integer Programming - Thursday 8:30 AM – 10:30 AM			
Salle 34 Build B, Z 3 1st floor 4x30 min	Integer linear programming, convex geometry, and lattices , <i>Organizer:</i> Sinai Robins, session 142 ACHILL SCHÜRSMANN, Exploiting Linear Symmetries in Integer Convex Optimization	MATTHIAS SCHYMURA, On the reverse isodiametric problem	SINAI ROBINS, session 142 KEVIN WOODS, The Complexity of Presburger Arithmetic in Fixed Dimension	IPtheory SINAI ROBINS, Fourier transforms of polytopes, solid angle sums, and discrete volumes
Salle 35 Build B, Z 4 Intermediate 4x30 min	Convexity and Polytopes , <i>Chair:</i> David Warme, session 518 EMILIANO LANCINI, Box-Total Dual Integrality and k-Edge-Connectivity	TAMON STEPHEN, On the Circuit Diameter Conjecture	FILIPPE CABRAL, The role of extreme points for convex hull operations.	IPtheory DAVID WARME, Metrics for Strength of Inequalities with Respect to a Polytope
Salle 44 Build C, Z 1 3rd floor 4x30 min	Advanced Linear(ized) MIP Formulations for Zero-One Programs , <i>Organizer:</i> Sven Mallach, session 127 LEON EIFLER, Mixed-Integer Programming for Clustering in Non-reversible Markov Processes	ADALAT JABRAYILOV, A new ILP for the Steiner Tree Problem with Revenues, Budget and Hop Constraints	DANIEL SCHMIDT, An extended formulation for the Steiner Forest Problem	IPpractice SVEN MALLACH, Compact Linearization for Zero-One Quadratic Programs
LEYTEIRE Build E, Z 1 3rd floor 4x30 min	Submodular Maximization , <i>Organizer:</i> Moran Feldman, session 29 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	APPROX NIV BUCHBINDER, Constrained Submodular Maximization via a Non-symmetric Technique
Salle 43 Build C, Z 1 3rd floor 4x30 min	Cycles and Trees , <i>Organizer:</i> Tobias Mömke, session 90 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	APPROX RALF KLASING, Approximability of Hub Allocation Problems
Salle 36 Build B, Z 4 Intermediate 4x30 min	Bin Packing , <i>Chair:</i> Frits CR Spieksma, session 344 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	APPROX FRITS SPIEKSMAS, Partitioning Vectors into Quadruples
Salle 41 Build C, Z 1 3rd floor 4x30 min	Graphs and clutters , <i>Organizer:</i> Gerard Cornuejols, session 263 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	COMB DABEEN LEE, Deltas, extended odd holes and their blockers
Salle 39 Build E, Z 1 3rd floor 4x30 min	Graph theory , <i>Chair:</i> Thomas Bellitto, session 422 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	COMB THOMAS BELLITTO, Optimal weighting to minimize the independence ratio of a graph
DURKHEIM Build A, Z 1 3rd floor 4x30 min	Parallel Computing and Sustainability , <i>Organizer:</i> Bistra Dilkina, session 296 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	CP CIARAN MCCREESH, Parallel Search, Ordering, Reproducibility, and Scalability
Salle 47 Build A, Z 1 3rd floor 4x30 min	Performance Analysis , <i>Organizer:</i> Charlotte Truchet, session 298 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	CP ALEXANDER TESCH, Improving Energetic Propagations for Cumulative Scheduling

Room Optimization under Uncertainty - Thursday 8:30 AM – 10:30 AM				
DENIGES Build C, Z 5 Ground Floor 4x30 min	New results in chance-constrained optimization, Chair: Bismark Singh, session 489			Stoch
	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
Salle 32 Build B, Z 5 Ground Floor 4x30 min	Topics in multistage and integer stochastic optimization, Organizer: Jim Luedtke, session 490			Stoch
	OZGE SAFAK, Three-Stage Stochastic Airline Scheduling Problem	MEHDI KARIMI-NASAB, State space analysis of a stochastic DP to deal with curse of dimensionality	CONG HAN LIM, Partitioned Subgradient Methods for Stochastic Mixed Integer Program duals	JIM LUEDTKE, Lagrangian dual decision rules for multistage stochastic integer programs
Salle 37 Build B, Z 4 Intermediate 4x30 min	K-adaptability, Organizer: Anirudh Subramanyam, session 1			Robust
	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
Salle 33 Build B, Z 5 Ground Floor 3x30 min	New applications of robust optimizations, Chair: Mirjam Duer, session 461			Robust
		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
Salle 30 Build B, Z 5 Ground Floor 4x30 min	Stackelberg Games, Chair: Stefano Coniglio, session 374			Game
	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

Continuous Optimization - Thursday 8:30 AM – 10:30 AM				
Salle ARNOZAN Build Q, Z 8 Ground Floor 4x30 min	First-order methods: advances and applications , <i>Organizer:</i> Immanuel M. Bomze, session 3 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 NLP
GINTRAC Build Q, Z 8 Ground Floor 4x30 min	Recent advances in interior point methods and NLP , <i>Organizer:</i> Michael Todd, session 77 MICHAEL TODD, The ellipsoid method redux	E. ALPER YILDIRIM, MILP Formulations for Globally Solving Nonconvex Standard Quadratic Programs	YINYU YE, A One-phase Interior Point Method For Nonconvex Optimization	OLIVER HINDER, A polynomial time interior point method for problems with nonconvex constraints NLP
Salle 05 Build Q, Z 11 1st floor 4x30 min	Machine learning for optimisation , <i>Organizer:</i> Coralia Cartis, session 176 ADILET OTEMISOV, 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 NLP
Salle KC7 Build K, Z 10 Intermediate 2 4x30 min	First Order Methods I , <i>Chair:</i> Sandra A. Santos, session 436 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 NLP
Salle LC4 Build L, Z 9 Intermediate 1 4x30 min	Universal methods in non-smooth analysis , <i>Organizer:</i> Alexander Gasnikov, session 53 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 NonSmooth
Salle 8 Build N, Z 12 4th floor 4x30 min	First-order methods for nonconvex and pathological convex problems , <i>Organizer:</i> Wotao Yin, session 183 MILA NIKOLOVA, Alternating structure-adapted proximal gradient descent for non-convex problems	WENBO GAO, ADMM for Multiaffine Constrained Optimization	ERNEST RYU, Douglas-Rachford Splitting for Pathological Convex Optimization	WOTAO YIN, Polynomial-Time Run-and-Inspect Method for Certain Nonconvex Optimization NonSmooth
Salle 9 Build N, Z 12 4th floor 4x30 min	Non smooth optimization for large scale problems , <i>Organizer:</i> Yu Du, session 556 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	MIN TAO, Decomposition methods for computing d-stationary solutions for nonconvex problem NonSmooth
Salle 20 Build G, Z 6 1st floor 4x30 min	Computer-assisted analyses of optimization algorithms I , <i>Organizer:</i> Adrien Taylor, session 19 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 SDP
Salle LC5 Build L, Z 10 Intermediate 1 4x30 min	Geometry and duality in convex optimization , <i>Organizer:</i> Javier F Pena, session 160 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 SDP
Salle 06 Build Q, Z 11 1st floor 4x30 min	Nonlinear Optimization and Variational Inequalities I , <i>Organizer:</i> Xin Liu, session 140 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 Variat
Salle KC6 Build K, Z 10 Intermediate 1 4x30 min	Recent Advances on Stochastic Algorithms and Machine Learning , <i>Organizer:</i> Shiqian Ma, session 202 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 RandomM
Salle 21 Build G, Z 6 Intermediate 4x30 min	Bayesian and Randomized Optimization I , <i>Chair:</i> Stefan M Wild, session 39 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 DerFree
Salle AURIAC Build G, Z 6 1st floor 4x30 min	Optimal Control of Variational Inequalities and Complementarity Systems , <i>Chair:</i> Alexandre Vieira, session 336 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 Thermoelastoplasticity	ANNA WALTER, Optimal Control of Elasticity Problems with Finite Deformations Control

Specific Models, Algorithms, and Software - Thursday 8:30 AM – 10:30 AM				
FABRE Build J, Z 8 Ground Floor 4x30 min	First-order methods for large-scale convex problems, Organizer: Stephen A Vavasis, session 316 STEPHEN VAVASIS, A single potential governing convergence of CG, AG and Geometric Descent			Learning
	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	
Salle DENUCE Build Q, Z 8 Ground Floor 4x30 min	Large-scale learning, Organizer: Lorenzo Rosasco, session 335 MIKHAIL BELKIN, The power of interpolation: on the effectiveness of SGD in modern learning			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	
Salle 16 Build I, Z 7 2nd floor 4x30 min	Dynamical systems, control and optimization, Chair: Benjamin Recht, session 470 FREDRIK BAGGE CARLSON, Tangent Space Regularization for Neural-Networks Models of Dynamical Systems			Learning
	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	
Salle LA4 Build L, Z 8 Basement 4x30 min	Multi-commodity flows, Organizer: Ralf Borndörfer, session 358 DANIEL GRANOT, Monotonicity and conformality in multicommodity network-flow problems			Network
	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	
PITRES Build O, Z 8 Ground Floor 3x30 min	Vehicle Routing I, Chair: Guy Desaulniers, session 411 GUY DESAULNIERS, The vehicle routing problem with stochastic and correlated travel times			Logistics
		BOLOR JARGALSAIKHAN, An exact formulation for pickup and delivery problem with divisible split-ups	MATHIAS KLAPP, Branch-and-Price for Probabilistic Vehicle Routing	
Salle 23 Build G, Z 6 3rd floor 4x30 min	Unit Commitment Problem and Applications, Organizer: Tiziano Parriani, session 94 ALLEGRA DE FILIPPO, Off-line/on-line optimization under uncertainty on energy management			Energy
	DIMITRI THOMOPOULOS, 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	
Salle 24 Build G, Z 6 3rd floor 4x30 min	Mining Applications, Organizer: Alexandra M Newman, session 172 MARCOS GOYCOOLEA, Lane's Algorithm Revisited			Energy
	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	
Salle 22 Build G, Z 6 2nd floor 4x30 min	Numerically Efficient Methods for Piecewise Algorithmic Differentiation II, Organizer: Torsten F Bosse, session 270 LAURENT HASCOET, Pushing the Algorithmic Differentiation tool Tapenade towards new languages			Algo
	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	
Salle 18 Build I, Z 7 1st floor 3x30 min	High-Performance Computing in Optimization I, Organizer: Kibaek Kim, session 271 TED RALPHS, Performance Assessment for Parallel MILP Solvers			Algo
		YUJI SHINANO, Ubiquity Generator Framework to parallelize state-of-the-art B and B based solvers	KIBAEEK KIM, Branching Strategies on Decomposition Methods for Mixed-Integer Programming	

Room	Invited Talks - Thursday 8:30 AM – 10:30 AM			
SIGALAS Build C, Z 2 2nd floor 4x30 min	Energy , <i>Chair</i> : Kazem Abbaszadeh, session 387 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	INTERFACE MAHBUBEH HABIBIAN, Demand and reserve co-optimization for a price-making consumer of electricity

Room		Invited Talks - Thursday 11:00 AM – 12:00 AM		
Auditorium Build Symph H, Z 0 Gambetta 1x60 min	The BARON software for MINLP, <i>Organizer:</i> Claudia D Ambrosio, session 547 NIKOLAOS SAHINIDIS, The BARON software for MINLP			SEMI
BROCA Build W, Z 0 3rd floor 1x60 min	Cutting Planes in the Extended Space, <i>Organizer:</i> Adam N Letchford, session 543 OKTAY GUNLUK, Cutting Planes in the Extended Space			KEYNOTE
DENIGES Build C, Z 5 Ground Floor 1x60 min	Effective Scenarios and Scenario Reduction for Risk-Averse Stochastic Programs, <i>Organizer:</i> Jim Luedtke, session 544 TITO HOMEM-DE-MELLO, Effective Scenarios and Scenario Reduction for Risk-Averse Stochastic Programs			KEYNOTE

Room	Invited Talks - Thursday 1:30 PM – 2:30 PM		
Auditorium Build Symph H, Z 0 Gambetta 1x60 min	Randomness, risk and electricity prices , <i>Organizer: Michael C Ferris, session 554</i> ANDY PHILPOTT, Randomness, risk and electricity prices		PLENARY

Room				Discrete Optimization & Integer Programming - Thursday 3:15 PM – 4:45 PM			
Salle 42	Build C, Z 1 3rd floor 3x30 min	Non-Standard IP Methods , <i>Chair:</i> Ulf Friedrich, session 513 TRI-DUNG NGUYEN, Algebraic Geometry and Integer Programings 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			IPtheory
Salle 43	Build C, Z 1 3rd floor 3x30 min	Polynomial Time Solvable Problems and Complete Descriptions , <i>Chair:</i> A-E FALQ, Extreme points for scheduling around a common due date	LARS ROHWEDDER, On Integer Programming and Convolution	ANDREAS BÄRMANN, session 520 ANDREAS BÄRMANN, The Clique Problem with Multiple-Choice Constraints and Two Polynomial Subcases			IPtheory
Salle 44	Build C, Z 1 3rd floor 3x30 min	Computational Issues in Integer Programming , <i>Organizer:</i> Ricardo Fukasawa, session 289 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			IPpractice
Salle 39	Build E, Z 1 3rd floor 3x30 min	Convexification and more (I) , <i>Organizer:</i> Jon Lee, session 62 MARCIA FAMPA, Treating indefinite quadratic and bilinear forms in MINLP	AMÉLIE LAMBERT, Valid inequalities for QCQPs	LUZE XU, More Virtuous Smoothing			MINLP
Salle 34	Build B, Z 3 1st floor 3x30 min	Heuristics in MINLP , <i>Chair:</i> Bertrand Travacca, session 276 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			MINLP
Salle 35	Build B, Z 4 Intermediate 3x30 min	MINLP with quadratic terms , <i>Chair:</i> Enrico Bettiol, session 282 FABRICIO OLIVEIRA, The p -Lagrangian method for MIQCQPs	ETIENNE LECLERQ, A dedicated version of BiqCrunch for solving the Max-Stable Set problem exactly	ENRICO BETTIOL, Simplicial Decomposition for quadratic convex 0-1 problems			MINLP
LEYTEIRE	Build E, Z 1 3rd floor 3x30 min	Approximation Algorithms for Clustering , <i>Organizer:</i> Deeparnab Chakrabarty, session 32 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			APPROX
Salle 36	Build B, Z 4 Intermediate 3x30 min	Routing and Inventory , <i>Organizer:</i> Dorit Hochbaum, session 343 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			APPROX
SIGALAS	Build C, Z 2 2nd floor 3x30 min	Algorithms for TSP , <i>Organizer:</i> Ola Svensson, session 239 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			COMB
DURKHEIM	Build A, Z 1 3rd floor 3x30 min	Applications of CP , <i>Organizer:</i> Louis-Martin Rousseau, session 284 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			CP

Room				Optimization under Uncertainty - Thursday 3:15 PM – 4:45 PM			
Salle 32	Theoretical and practical aspects of decomposition algorithms for multistage stochastic problems: 1, <i>Organizer:</i> Vincent Leclère, session 246						Stoch
Build B, Z 5 Ground Floor 3x30 min	DAVID WOZABAL, Computing parameter sensitivities for discrete time Markov decision processes	NILS LÖHNDORF, Modeling time-dependent randomness in stochastic dual dynamic programming	BENOÎT LEGAT, Computing ellipsoidal controlled invariant sets for stochastic programming				
DENIGES	Distributionally Robust Optimization With Marginals and Cones, <i>Organizer:</i> Divya Padmanabhan, session 354						Robust
Build C, Z 5 Ground Floor 3x30 min	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				
Salle 37	Non-linear robust optimization, <i>Chair:</i> Laurent Alfandari, session 460						Robust
Build B, Z 4 Intermediate 3x30 min	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				
Salle 30	Generation and Representation Algorithms in Multiobjective Optimization, <i>Organizer:</i> Michael Stiglmayr, session 267						Game
Build B, Z 5 Ground Floor 3x30 min	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				

Continuous Optimization - Thursday 3:15 PM – 4:45 PM			
Room			
Salle 05 Build Q, Z 11 1st floor 3x30 min	Methods of Optimization in Riemannian Manifolds , <i>Organizer:</i> Orizon P. Ferreira, session 21 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 NLP
Salle 8 Build N, Z 12 4th floor 3x30 min	Extending the Reach of First-Order Methods, Part II , <i>Organizer:</i> Robert M. Freund, session 286 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 NonSmooth
Salle LC5 Build L, Z 10 Intermediate 1 3x30 min	Noncommutative polynomial optimization: semidefinite relaxations, free convexity and applications to quantum information II , <i>Organizer:</i> Monique Laurent, session 18 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 SDP
Salle 06 Build Q, Z 11 1st floor 3x30 min	Nonlinear Optimization and Variational Inequalities II , <i>Organizer:</i> Cong Sun, session 141 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 Variat
Salle KC6 Build K, Z 10 Intermediate 1 3x30 min	Asynchronous Parallel and Distributed Optimization , <i>Organizer:</i> Wotao Yin, session 200 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 RandomM
Salle AURIAC Build G, Z 6 1st floor 2x30 min	Theory and Methods for ODE- and PDE-Constrained Optimization 2 , <i>Chair:</i> Johann Schmitt, session 333 JOHANN SCHMITT, Optimal boundary control of hyperbolic balance laws with state constraints		PALOMA SCHÄFER AGUILAR, Numerical approximation of optimal control problems for conservation laws Control

Specific Models, Algorithms, and Software - Thursday 3:15 PM – 4:45 PM			
FABRE Build J, Z 8 Ground Floor 3x30 min	Accelerating Learning , <i>Organizer:</i> Martin Takac, session 322 DAMIEN SCIEUR, Nonlinear Acceleration of Stochastic Algorithms	SAI PRANEETH KARIMIREDDY, Accelerated First Order Methods with Approximate Subproblems	ANGELIA NEDICH, Optimal Algorithms for Distributed Optimization Learning
Salle 16 Build I, Z 7 2nd floor 3x30 min	Robust first order methods , <i>Organizer:</i> Fatma Kilinc-Karzan, session 332 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 Learning
PITRES Build O, Z 8 Ground Floor 2x30 min	Path Problems , <i>Chair:</i> Yanchao Liu, session 453 EDWARD HE, Dynamic Discretization Discovery Algorithms for Time-Dependent Path Problems	YANCHAO LIU, Drone Path Planning and Aerial Traffic Flow	 Logistics
Salle 18 Build I, Z 7 1st floor 3x30 min	Production Planning , <i>Chair:</i> Michel Tobias Hofmann, ISO-PESP - A PESP Variant for Minimizing the Cycle Time of Production Lines	SIEMON, session 531 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 Scheduling
Salle DENUCE Build Q, Z 8 Ground Floor 3x30 min	Optimization Models for Renewable Energy Integration 1 , <i>Organizer:</i> Panagiotis Andrianesis, Optimal Grid Operation and DER Dispatch in Active Distribution Networks	LUIS F ZULUAGA, session 120 GALINA ORLINSKAYA, Bilevel Optimization for Flexible Electricity Supply Tariff Design	LUIS ZULUAGA, Competitive equilibrium and revenue adequate prices for robust energy markets Energy
Salle 23 Build G, Z 6 3rd floor 3x30 min	Progress in Algorithms for Optimal Power Flow Problems II , <i>Chair:</i> Alvaro Lorca, Robust Optimization for the Alternating Current Optimal Power Flow Problem	MIGUEL F ANJOS, session 509 KSENIYA BESTUZHEVA, Global Optimization for Alternating Current Optimal Power Flow	ANDREAS GROTHEY, Optimal Power Flow solver based on HELM Energy
Salle 24 Build G, Z 6 3rd floor 3x30 min	Electricity Generation Scheduling and Dispatch , <i>Chair:</i> Christophe Duhamel, session 511 BESTE BASCIFICI, 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 Energy
Salle LA4 Build L, Z 8 Basement 3x30 min	Inverse Problems in Physics , <i>Chair:</i> Andreas Alpers, On the reconstruction of lattices from diffraction data	LEO LIBERTI, session 391 FABIAN KLEMM, Grain map reconstruction by means of generalized Voronoi Diagrams	LEO LIBERTI, Scientific applications of distance geometry Sciences
Salle 22 Build G, Z 6 2nd floor 3x30 min	High-Performance Computing in Optimization II , <i>Chair:</i> Joaquim Dias Timotej Hrga, High-Performance Solver for Binary Quadratic Problems	JOAQUIM DIAS GARCIA, session 466 BRIAN DANDURAND, Bilevel optimization approaches for power system security	JOAQUIM DIAS GARCIA, Genesys: Simulating Power Systems by Solving Millions of MIPs Algo

Room					Discrete Optimization & Integer Programming - Thursday 5:00 PM – 6:30 PM				
Salle 43 Build C, Z 1 3rd floor 4x20 min	Advances in Integer Programming. LAURA SANITÀ, On the diameter of the fractional matching polytope	<i>Organizer:</i> Robert Hildebrand, session 227 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	IPtheory				
Salle 42 Build C, Z 1 3rd floor 3x30 min	Cutting Planes for Special Problems. RUSLAN SIMANCHEV, Separation problem for 2-partition inequalities	<i>Chair:</i> Eleazar Madriz, session 517 MARKÓ HORVÁTH, Polyhedral results for position based scheduling of chains on a single machine	ELEAZAR MADRIZ, A Benders procedure for the b-complementary multisemigroup dual program.	IPtheory					
Salle 36 Build B, Z 4 Intermediate 4x20 min	Matching Problems. THANH NGUYEN, Stable Matching with Proportionality Constraints	<i>Organizer:</i> Sergio García Quiles, session 175 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	IPpractice				
Salle 44 Build C, Z 1 3rd floor 4x20 min	Cutting Planes. FABRIZIO MARINELLI, session 485 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	IPpractice				
DURKHEIM Build A, Z 1 3rd floor 3x30 min	Convexification and more (II). CHRISTOPH BUCHHEIM, Binary Programming with Semilinear Elliptic PDE-constraints	<i>Organizer:</i> Akshay Gupte, session 106 CHRISTOPHER COEY, Using algebraic structure to accelerate polyhedral approximation	ANDRES GOMEZ, Quadratic optimization with M-matrices and semi-continuous variables	MINLP					
Salle 34 Build B, Z 3 1st floor 3x30 min	Relaxations in MINLP. RALF LENZ, Tight Convex Relaxations for Expansion Planning of Potential Driven Networks	<i>Chair:</i> Jan Kronqvist, session 280 JAN KRONQVIST, Using Regularization and Second Order Derivatives with Outer Approximation	ANDREAS LUNDELL, The Supporting Hyperplane Optimization Toolkit for Convex MINLP	MINLP					
Salle 35 Build B, Z 4 Intermediate 3x30 min	Applications in MINLP. Do Duc Le, Modeling and optimization of traffic at traffic-light controlled intersections	<i>Chair:</i> Justo Puerto, session 283 MAXIMILIAN MERKERT, Flow-based extended formulations for feasible traffic light controls	JUSTO PUERTO, MINLP for pricing transaction costs in different models of portfolio selection	MINLP					
LEYTEIRE Build E, Z 1 3rd floor 3x30 min	Approximation Algorithms for Optimization under Uncertainty. THOMAS KESSELHEIM, Prophet Inequalities Made Easy: Stochastic Opt. by Pricing Non-Stochastic Inputs	<i>Organizer:</i> Marc Uetz, session 95 MAX KLIMM, Hiring Secretaries over Time: The Benefit of Concurrent Employment	MARC UETZ, Greed is Good - Online Algorithms for Stochastic Unrelated Machine Scheduling	APPROX					
Salle 41 Build C, Z 1 3rd floor 3x30 min	Approximation algorithms for combinatorial optimization problems. MOHIT SINGH, Approximation Algorithms for Diverse Subset Selection Problems	<i>Organizer:</i> Thomas Rothvoss, session 265 ROY SCHWARTZ, Local Guarantees in Graph Cuts and Clustering	ANUPAM GUPTA, Scheduling Stochastic Jobs on Unrelated Machines	COMB					
Salle 39 Build E, Z 1 3rd floor 4x20 min	Heuristics for combinatorial optimization problems. CID DE SOUZA, A Heuristic to the Fire-fighter Problem on Graphs	<i>Chair:</i> Evren Guney, session 428 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	COMB				

Room Optimization under Uncertainty - Thursday 5:00 PM – 6:30 PM				
Salle 32	Theoretical and practical aspects of decomposition algorithms for multistage stochastic problems: 2, Stoch <i>Organizer:</i> Vincent Leclère, session 247			
Build B, Z 5 Ground Floor 4x20 min	OSCAR DOWSON, The practitioners guide to SDDP: lessons from SDDP.jl	FRANÇOIS PACAUD, Decomposing Dynamic Programming equations: from global to nodal value functions	VITOR DE MATOS, Energy portfolio optimization for Brazilian distribution companies: a multistage	LUIZ CARLOS DA COSTA JUNIOR, Stochastic programming framework for risk aversion representation with SDDP
Salle 30	Topics in multistage stochastic optimization, Chair: Felipe Beltrán, session 492 Stoch			
Build B, Z 5 Ground Floor 3x20 min	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	
DENIGES	Robust Optimization under Data Uncertainty, Organizer: Omid Nohadani, session 98 Robust			
Build C, Z 5 Ground Floor 3x30 min	MATTHIAS EHRGOTT, Uncertain Data Envelopment Analysis	SOROOSH SHAFIEEZADEH, Wasserstein Distributionally Robust Kalman Filtering	ZHENZHEN YAN, Appointment Scheduling Under Time-Dependent Patient No-Show Behavior	
Salle 37	Combinatorial robust optimization I, Organizer: Marc Goerigk, session 167 Robust			
Build B, Z 4 Intermediate 4x20 min	ARTUR PESSOA, Solving the Robust Capacitated Vehicle Routing Problem Under Demand Uncertainty	MARC GOERIGK, Approximating combinatorial optimization problems with the OWA criterion	OYKU NAZ ATILTA, Reformulations for Robust Lot-Sizing Problem with Remanufacturing	CHRISTOPH HANSKNECHT, ast robust shortest path computations
Salle 31	Approximation in dynamic programming, Chair: Philip C Placek, session 382 Markov			
Build B, Z 5 Ground Floor 3x30 min	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	

Continuous Optimization - Thursday 5:00 PM – 6:30 PM				
Salle 05 Build Q, Z 11 1st floor 4x20 min	Polynomial and tensor optimization II , <i>Organizer:</i> Jiawang Nie, session 6 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 NLP
Salle KC7 Build K, Z 10 Intermediate 2 3x20 min	First Order Methods II , <i>Chair:</i> Guillaume Berger, session 437 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	NLP
Salle 20 Build G, Z 6 1st floor 4x20 min	Global Optimization 3 , <i>Chair:</i> Jean-Jaromil Najman, Tighter McCormick relaxations through subgradient propagation in a BaB framework	BAPTIST HIRIART-URRUTY, session 503 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 Global
Salle LC4 Build L, Z 9 Intermediate 1 3x30 min	Efficient Semismooth Newton Methods for Large Scale Statistical Optimization Problems , <i>Organizer:</i> Defeng Sun, session 123 MEIXIA LIN, Efficient sparse Hessian based algorithms for the clustered lasso problem	YANGING 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	NonSmooth
Salle 8 Build N, Z 12 4th floor 3x30 min	Different faces of nonsmoothness in optimization , <i>Organizer:</i> Tim Hoheisel, session 212 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	NonSmooth
Salle AURIAC Build G, Z 6 1st floor 4x20 min	Recent Advances in Conic Programming III , <i>Organizer:</i> Masakazu Muramatsu, session 84 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 SDP
Salle LC5 Build L, Z 10 Intermediate 1 4x20 min	Using coning programming in problems solving , <i>Chair:</i> Kurt Majewski, session 497 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 SŁIWAŁ, 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 SDP
Salle 06 Build Q, Z 11 1st floor 3x30 min	VU-decomposition techniques for nonsmooth optimization , <i>Organizer:</i> Claudia Sagastizabal, session 158 SHUAI LIU, An epsilon-VU algorithm with superlinear convergence	CLAUDIA SAGASTIZABAL, A derivative-free VU-algorithm for convex finite-max problems	LUCAS SIMÕES, A Fast Gradient Sampling-like Method for Solving Nonsmooth Optimization Problems	Variat
Salle ARNOZAN Build Q, Z 8 Ground Floor 4x20 min	Variational Analysis 5 , <i>Organizer:</i> David Sossa, session 371 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 Variat
Salle KC6 Build K, Z 10 Intermediate 1 3x20 min	Recent Progress on Second-order Type Optimization Methods , <i>Organizer:</i> Andre Milzarek, session 302 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	RandomM
Salle 21 Build G, Z 6 Intermediate 3x30 min	Advances in DFO III , <i>Chair:</i> Juan C Meza, session 496 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	DerFree

Specific Models, Algorithms, and Software - Thursday 5:00 PM – 6:30 PM				
FABRE Build J, Z 8 Ground Floor 4x20 min	First-order methods for large-scale convex problems II , <i>Organizer:</i> Stephen A Vavasis, session 318 MADELEINE UBELL, 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 <i>Learning</i>
Salle 16 Build I, Z 7 2nd floor 4x20 min	Advances in Reinforcement Learning Algorithms , <i>Organizer:</i> Lin Xiao, session 329 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 <i>Learning</i>
Salle 22 Build G, Z 6 2nd floor 4x20 min	Ranking and recommendation , <i>Chair:</i> Aleksandra Burashnikova, session 472 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 <i>Learning</i>
Salle 24 Build G, Z 6 3rd floor 3x20 min	Vehicle Routing III , <i>Chair:</i> Raquel Bernardino, session 413 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	<i>Logistics</i>
Salle 18 Build I, Z 7 1st floor 4x20 min	Supply Chain , <i>Chair:</i> Daniel Ramón-Lumbierres, session 533 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 <i>Scheduling</i>
Salle DENUCE Build Q, Z 8 Ground Floor 3x30 min	Equilibrium and Optimization in Energy Markets , <i>Organizer:</i> Asgeir Tomasdard, session 151 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	<i>Energy</i>
Salle 23 Build G, Z 6 3rd floor 3x30 min	Gas Network and Market Optimization , <i>Organizer:</i> Jonas Schweiger, session 293 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	<i>Energy</i>
Salle LA4 Build L, Z 8 Basement 4x20 min	Medicine and Metabolic engineering , <i>Chair:</i> Mahdi Doostmohammadi, session 396 MICHELLE BOECK, Model Predictive Control and Robust Optimization in Adaptive Radiation Therapy	BJÖRN MOREN, 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 <i>Sciences</i>
Salle 9 Build N, Z 12 4th floor 4x20 min	Large-scale combinatorial optimization implementations , <i>Organizer:</i> Aaron Archer, session 96 ANDREW GOLDBERG, Lost in Translation: Production Code Efficiency	KEVIN AYDIN, Distributed Balanced Partitioning via Linear Embedding	CHRISTIAN SCHULZ, High Quality Graph and Hypergraph Partitioning	HOSSEIN BATENI, Solving Coverage Problems on Massive Data <i>Algo</i>
PITRES Build O, Z 8 Ground Floor 3x30 min	Computational OR in Julia/JuMP , <i>Organizer:</i> Miles Lubin, session 238 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	<i>Algo</i>

Room	Invited Talks - Thursday 5:00 PM – 6:30 PM			
SIGALAS Build C, Z 2 2nd floor 4x20 min	Planning, Chair: Jeanjean Antoine, session 389 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)	INTERFACE MOHAMED BENKIRANE, An Hypergraph Model for the Rolling Stock Rotation Plan- ning and Train Selection

Discrete Optimization & Integer Programming - Friday 8:30 AM – 10:30 AM				
Salle 43 Build C, Z 1 3rd floor 4x30 min	Recent advances in Integer Optimization , <i>Organizer:</i> Alberto Del Pia, session 218 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 IPtheory
Salle 35 Build B, Z 4 Intermediate 4x30 min	Mixed Integer Programming Representability , <i>Organizer:</i> Juan Pablo Vielma, session 275 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 IPtheory
Salle 44 Build C, Z 1 3rd floor 4x30 min	Integer Programming and Crew Scheduling , <i>Organizer:</i> Francois Soumis, session 292 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 IPpractice
Salle 34 Build B, Z 3 1st floor 3x30 min	Optimal Control Problems with Discrete Switches , <i>Organizer:</i> Christian Kirches, session 102 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 MINLP	
LEYTEIRE Build E, Z 1 3rd floor 4x30 min	Data-Driven Revenue Management with Customer Choice , <i>Organizer:</i> Jacob Feldman, session 81 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 AOUD, Near-Optimal Approximations for Display Optimization Under MNL Preferences	JACOB FELDMAN, New Results for Assortment Optimization under the Exponential Choice Model APPROX
Salle 36 Build B, Z 4 Intermediate 4x30 min	Clustering. , <i>Organizer:</i> Zac Friggstad, session 155 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 APPROX
SIGALAS Build C, Z 2 2nd floor 4x30 min	Matching and scheduling , <i>Organizer:</i> Sefi Naor, session 54 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 COMB
Salle 41 Build C, Z 1 3rd floor 4x30 min	Recent progress in graph cut problems , <i>Organizer:</i> Karthekeyan Chandrasekaran, session 244 TAMÁS KIRÁLY, Approximation of Linear 3-Cut and related problems	EUIWOONG LEE, An FPT Algorithm Beating 2-Approximation for k -Cut	YURY MAKARYCHEV, An Integrality Gap for the Călinescu–Karloff–Rabani Relaxation for Multiway Cut	KARTHEKEYAN CHANDRASEKARAN, Hypergraph k -cut in randomized polynomial time COMB
Salle 39 Build E, Z 1 3rd floor 4x30 min	Algorithmic aspects of connectivity in network design , <i>Organizer:</i> Neil Olver, session 264 BUNDIT 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	KANSTANTSIN PASHKOVICH, On the Integrality Gap of the Prize-Collecting Steiner Forest LP COMB
DURKHEIM Build A, Z 1 3rd floor 4x30 min	Graphical Optimization Model 2 , <i>Organizer:</i> Maria I. Restrepo, session 297 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 CP

Optimization under Uncertainty - Friday 8:30 AM – 10:30 AM				
Room				
DENIGES	Stoch			
Build C, Z 5 Ground Floor 4x30 min	Theoreticals and practicals aspects of decomposition algorithms for multistage stochastic problems: 3, <i>Organizer:</i> Vincent Leclère, session 245 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			
Salle 32	Stoch			
Build B, Z 5 Ground Floor 4x30 min	New methods for stochastic optimization and variational inequalities, <i>Chair:</i> Yunxiao Deng, session 491 ALFREDO IUSEM, Extragradient method for pseudomonotone stochastic variational inequalities EDUARD GORBUNOV, An Accelerated Randomized Method for Smooth Stochastic Convex Optimization MIHAI ANITESCU, Stochastic Analogues to Deterministic Optimization Methods YUNXIAO DENG, Convex Stochastic Decomposition and Applications to Machine Learning			
Salle 33	Robust			
Build B, Z 5 Ground Floor 3x30 min	New Horizons in Robust Optimization, <i>Organizer:</i> Angelos Georghiou, session 447 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			
Salle 31	Markov			
Build B, Z 5 Ground Floor 4x30 min	Advances in theory of dynamic programming, <i>Chair:</i> Stephane L Gaubert, session 385 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			
Salle 30	Game			
Build B, Z 5 Ground Floor 4x30 min	Algorithmic Game Theory II, <i>Chair:</i> Margarida Carvalho, session 372 ANJA 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			

Continuous Optimization - Friday 8:30 AM – 10:30 AM				
Salle 05 Build Q, Z 11 1st floor 4x30 min	First order methods, Organizer: Gerardo Toraldo, session 27 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 NLP
GINTRAC Build Q, Z 8 Ground Floor 4x30 min	Stochastic and Nonlinear Optimization II, Organizer: Jorge Nocedal, session 48 MARK SCHMIDT, "Active-set complexity" of proximal-gradient: How long does it take to find the	DANIEL ROBINSON, A Positive Outlook on Negative Curvature	ALBERT BERAHAS, Derivative-Free Optimization of Noisy Functions via Quasi-Newton Methods	LIN XIAO, Randomized Primal-Dual Algorithms for Asynchronous Distributed Optimization NLP
Salle KC7 Build K, Z 10 Intermediate 2 4x30 min	Regularization and Iterative Methods in Large-Scale Optimization, Organizer: Jacek Gondzio, session 59 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 POU GKAKIOTIS, Dynamic primal-dual regularization in interior point methods	MICHAEL SAUNDERS, Stabilized Optimization via an NCL Algorithm NLP
Salle 9 Build N, Z 12 4th floor 4x30 min	Decomposition Methods, Chair: Roger Behling, session 431 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	LEONARDO GALLI, A Nonmonotone Decomposition Framework: convergence analysis and applications NLP
Salle LC4 Build L, Z 9 Intermediate 1 4x30 min	Geometry in complexity analysis of non-smooth optimization methods, Organizer: Jalal Fadili, session 199 CHARLES DOSSAL, An ODE associated to the Nesterov acceleration scheme	GUILLAUME 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 NonSmooth
Salle 8 Build N, Z 12 4th floor 4x30 min	Convergence analysis for non smooth optimization, Organizer: Robert Csetnek, session 557 ROBERT CSETNEK, ADMM for monotone operators: convergence analysis and rates	MATIAS FALT, 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 NonSmooth
Salle 20 Build G, Z 6 1st floor 4x30 min	Copositive and completely positive optimization, Organizer: Olga Kuryatnikova, session 24 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 SDP
Salle LC5 Build L, Z 10 Intermediate 1 4x30 min	Stability and scaling in conic programming, Chair: Diego Cifuentes, session 498 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 SDP
Salle 06 Build Q, Z 11 1st floor 4x30 min	Stochastic Optimization and Variational Inequalities, Organizer: Hailin Sun, session 149 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 Variat
Salle ARNOZAN Build Q, Z 8 Ground Floor 4x30 min	Variational Analysis 3, Organizer: Johanna Burtscheidt, session 369 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 Variat
Salle KC6 Build K, Z 10 Intermediate 1 3x30 min	Recent Advances in Coordinate Descent and Constrained Problems, Organizer: Ion Necoara, session 208	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 RandomM
Salle 21 Build G, Z 6 Intermediate 4x30 min	Challenging applications in DFO, Chair: Francesco Rinaldi, session 38 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 DerFree
Salle AURIAC Build G, Z 6 1st floor 3x30 min	Optimal Control in Engineering Applications, Chair: Maxime Grangereau, session 310 MASOUMEH MOHAMMADI, A Priori Error Estimates for a Linearized Fracture Control Problem	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 Control

Specific Models, Algorithms, and Software - Friday 8:30 AM – 10:30 AM						
FABRE Build J, Z 8 Ground Floor 3x30 min	Dimensionality reduction tools for learning: A sketchy session. <i>Organizer:</i> Robert M Gower, session 313	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	Learning	
Salle 16 Build I, Z 7 2nd floor 4x30 min	Dealing with non-convexity. <i>Chair:</i> LEONARD BERRADA, Smoothing Piecewise Linear Loss Functions for Deep Learning	DAMEK DAVIS, session 473	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	Learning
Salle 18 Build I, Z 7 1st floor 4x30 min	Telecommunications. <i>Organizer:</i> Edoardo Amaldi, session 361	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	Network
PITRES Build O, Z 8 Ground Floor 4x30 min	Hybrid Algorithms and Matheuristics for VRP. <i>Organizer:</i> Thibaut Vidal, session 181	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	Logistics
Salle 23 Build G, Z 6 3rd floor 3x30 min	Scheduling Applications. <i>Chair:</i> Mauricio C. de Souza, session 526	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	Scheduling	
Salle 24 Build G, Z 6 3rd floor 3x30 min	Power Systems Models with Discrete Decision Variables. <i>Organizer:</i> Adolfo R Escobedo, session 26	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	Energy	
Salle DENUCE Build Q, Z 8 Ground Floor 4x30 min	Machine Learning in State Estimation and Situational Awareness in Power Grids. <i>Organizer:</i> Deepjyoti Deka, session 134	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	Energy
Salle LA4 Build L, Z 8 Basement 3x30 min	Finance and Portfolio Optimization. <i>Organizer:</i> Asaf Shupo, session 395	BENJAMIN HEYMANN, Auction under ROI constraints	GABRIELA KOVACOVA, Time Consistency of the Mean-Risk Problem	ASAF SHUPO, Building Optimal Strategies Using Multi-Objective Optimization	Sciences	
Salle 22 Build G, Z 6 2nd floor 4x30 min	New Developments in Optimization Modeling Software. <i>Organizer:</i> Robert Fourer, session 101	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	Algo

Room	Invited Talks - Friday 11:00 AM – 12:00 AM		
Auditorium Build Symph H, Z 0 Gambetta 1x60 min	Tseng Memorial Lectureship in Continuous Optimization, <i>Organizer:</i> Yaxiang Yuan, session 549		
LEYTEIRE Build E, Z 1 3rd floor 1x60 min	Majority judgment, <i>Organizer:</i> Martine Labbé, session 535 MICHEL BALINSKI, Majority judgment		SEMI
DENIGES Build C, Z 5 Ground Floor 1x60 min	Submodularity in mixed-integer quadratic and conic quadratic optimization, <i>Organizer:</i> Daniel Bienstock, session 540 ALPER ATAMTURK, Submodularity in mixed-integer quadratic and conic quadratic optimization		KEYNOTE
BROCA Build W, Z 0 3rd floor 1x60 min	Modern Branch-and-Cut Implementation, <i>Organizer:</i> Marc E Pfetsch, session 542 MATTEO FISCHETTI, Modern Branch-and-Cut Implementation		KEYNOTE

Room	Invited Talks - Friday 1:30 PM – 2:30 PM		
Auditorium Build Symph H, Z 0 Gambetta 1x60 min	Bounds for quantum graph parameters by conic and polynomial optimization, <i>Organizer:</i> Frank Vallentin, session 553 MONIQUE LAURENT, Bounds for quantum graph parameters by conic and polynomial optimization		PLENARY

Discrete Optimization & Integer Programming - Friday 3:15 PM – 4:45 PM			
Salle 34 Build B, Z 3 1st floor 3x30 min	Polyhedral theory in practice , <i>Organizer:</i> Mourad Baiou, session 309 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 IPtheory
Salle 42 Build C, Z 1 3rd floor 3x30 min	Extended Formulations , <i>Chair:</i> Bartosz Filipecki, session 514 BERND PERSCHIED, An Extended Formulation for the 1-Wheels of the Stable Set Polytope	MIRJAM FRIESEN, Extended formulations for higher-order spanning tree polytopes	BARTOSZ FILIPECKI, Stronger Path-based Extended Formulation for the Steiner Tree Problem IPtheory
Salle 44 Build C, Z 1 3rd floor 3x30 min	Routing , <i>Chair:</i> Cole Smith, session 484 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 IPpractice
Salle 36 Build B, Z 4 Intermediate 3x30 min	IP Practice III , <i>Chair:</i> Samuel S Brito, session 507 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 IPpractice
Salle 39 Build E, Z 1 3rd floor 3x30 min	Outer Convexification and Mixed-Integer Optimal Control , <i>Organizer:</i> Sebastian Sager, session 103 PAUL MANNS, Improved Regularity Assumptions for Partial Outer Convexification of MIPDECOs	CLEMENS ZEILE, Combinatorial Integral Approximation Decompositions for Mixed-Integer Control	OLIVER HABECK, Global optimization of ODE constrained network problems MINLP
DURKHEIM Build A, Z 1 3rd floor 3x30 min	Intersection cuts, disjunctions, and valid inequalities , <i>Organizer:</i> Eli Towle, session 180 DANIEL BIENSTOCK, Outer-product-free Sets for Polynomial Optimization	EGON BALAS, Synthetizing branch-and-bound information into cutting planes	ELI TOWLE, Intersection disjunctions for reverse convex sets MINLP
Salle 35 Build B, Z 4 Intermediate 3x30 min	Branch-and-cut techniques , <i>Organizer:</i> Teodora Dan, session 277 TEODORA DAN, A branch-and-bound algorithm for a bilevel location-allocation model	LOUIS ANDERSON, Improving branching for disjunctive models via approximate convex decompositions	TU NGUYEN, Learning with Cutting Planes MINLP
LEYTEIRE Build E, Z 1 3rd floor 3x30 min	Submodular Maximization , <i>Organizer:</i> Justin Ward, session 179 ILIJA 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 APPROX
Salle 43 Build C, Z 1 3rd floor 3x30 min	Submodular and Incremental Maximization , <i>Organizer:</i> Martin Gross, session 340 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 APPROX
SIGALAS Build C, Z 2 2nd floor 3x30 min	Combinatorial aspects of Linear Programming , <i>Organizer:</i> Daniel Dadush, session 259 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 COMB

Optimization under Uncertainty - Friday 3:15 PM – 4:45 PM				
Room				
Salle 32 Build B, Z 5 Ground Floor 3x30 min	Risk-aware decision making , <i>Organizer:</i> Minseok Ryu, session 251 HIDEAKI NAKAO, Medical Homecare Delivery with Time-dependent Stochastic Travel Time	ZHENG ZHANG, A stochastic programming approach for optimization of latent disease detection	MINSEOK RYU, Nurse staffing under uncertain demand and absenteeism	Stoch
Salle 33 Build B, Z 5 Ground Floor 3x30 min	Distributionally Robust Optimization: Models and Applications , <i>Organizer:</i> Selin D Ahipasaoglu, session 355 BIKRAMJIT DAS, Heavy tails in a moment-constrained robust newsvendor model			Robust
		HENRY LAM, Robust Extreme Event Analysis	SELIN AHIPASAOGLU, Concentration versus Diversification in Portfolio Selection	
DENIGES Build C, Z 5 Ground Floor 3x30 min	Distributionally Robust Optimization , <i>Organizer:</i> Daniel Kuhn, session 446 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	Robust
Salle 31 Build B, Z 5 Ground Floor 3x30 min	Discrete stochastic dynamic programming , <i>Chair:</i> Adam Narkiewicz, session 384 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	Markov
Salle 30 Build B, Z 5 Ground Floor 3x30 min	Scalarization, representation and the comparison of methods in Multiobjective Optimization , <i>Chair:</i> Tyler Perini, session 378 KENZA OUFASKA, New scalarization technique for solving multi-objective problems			Game
		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	

Room	Continuous Optimization - Friday 3:15 PM – 4:45 PM			
GINTRAC Build Q, Z 8 Ground Floor 3x30 min	Interior Point Methods in Engineering Applications I, Organizer: Jacek Gondzio, session 60 SEBASTIAAN BREEDVELD, A (non)convex interior-point implementation tuned for radiotherapy optimisation LOVISA ENGBERG, Refined planning tools for external radiotherapy using interior point methods RENKE KUHLMANN, Computational Study of a Primal-Dual Penalty-Interior-Point Algorithm			NLP
Salle 05 Build Q, Z 11 1st floor 3x30 min	Nonlinear Optimization, Chair: Marc C Steinbach, session 429 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			NLP
Salle 20 Build G, Z 6 1st floor 3x30 min	Global Optimization 2, Chair: Mirjam Duer, session 502 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			Global
Salle 8 Build N, Z 12 4th floor 3x30 min	Advances in the first-order methods for convex optimization, Organizer: Angelia Nedich, session 73 HOI TO WAI, Accelerated curvature-aided incremental aggregated gradient method TATIANA TATARENKO, Fast Incremental Gradient Method for Optimization with Linear Constraints MARYAM YASHTINI, Efficient Methods For Edge-weighted TV Models with Sphere Constraints			NonSmooth
Salle LC5 Build L, Z 10 Intermediate 1 3x30 min	Relative Entropy Optimization I, Organizer: Venkat Chandrasekaran, session 111 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			SDP
Salle 06 Build Q, Z 11 1st floor 3x30 min	Algorithms for optimization and variational problems with possibly nonisolated solutions II, Organizer: Alexey F. Izmailov, session 153 MIKHAIL SOLODOV, A globally convergent LP-Newton method for piecewise smooth constrained equation DANIEL STECK, Some Developments on Multiplier Methods in Cone-Constrained Optimization PAULO SILVA, On the second order augmented Lagrangian method for MPCC			Variat
Salle ARNOZAN Build Q, Z 8 Ground Floor 3x30 min	Nash equilibrium and Games 2, Organizer: Giancarlo Bigi, session 366 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			Variat
Salle 21 Build G, Z 6 Intermediate 3x30 min	Advances in DFO IV, Chair: Katya Scheinberg, session 125 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			DerFree

Room	Specific Models, Algorithms, and Software - Friday 3:15 PM – 4:45 PM			
Salle 16 Build I, Z 7 2nd floor 3x30 min	Discrete methods for data centers and graphs. <i>Organizer:</i> Aaron Archer, session 477 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	Learning
FABRE Build J, Z 8 Ground Floor 3x30 min	Classification, regression and clustering. <i>Chair:</i> Dimitris Bertsimas, session 480 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	Learning
Salle 24 Build G, Z 6 3rd floor 3x30 min	Vehicle Routing II. <i>Chair:</i> Chris N Potts, session 412 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	Logistics
Salle 18 Build I, Z 7 1st floor 3x30 min	Machine Scheduling 1. <i>Chair:</i> Renan S. Trindade, session 527 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	Scheduling
Salle DENUCE Build Q, Z 8 Ground Floor 3x30 min	Estimation and Learning for Power Systems. <i>Organizer:</i> Javad Lavaei, session 25 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	Energy
Salle 22 Build G, Z 6 2nd floor 3x30 min	Optimization in Energy. <i>Chair:</i> Andrea Simonetto, session 515 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	Energy
Salle 23 Build G, Z 6 3rd floor 3x30 min	Optimization for Energy System Planning. <i>Chair:</i> Andrew Lu Liu, session 524 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	Energy
Salle LA4 Build L, Z 8 Basement 3x30 min	Industrial dynamics and Environmental policy. <i>Organizer:</i> Inmaculada Garcia Fernandez, session 392 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	Sciences
PITRES Build O, Z 8 Ground Floor 3x30 min	Computational Integer Programming I. <i>Organizer:</i> Domenico Salvagnin, session 273 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	Algo

Discrete Optimization & Integer Programming - Friday 5:00 PM – 6:30 PM				
Salle 34 Build B, Z 3 1st floor 4x20 min	Machine Learning and Discrete Optimization , <i>Organizer:</i> Sebastian Pokutta, session 308 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 IPtheory
Salle 44 Build C, Z 1 3rd floor 4x20 min	Decomposition II , <i>Chair:</i> Natasha Boland, session 487 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 IPpractice
Salle 36 Build B, Z 4 Intermediate 2x20 min	Dual Ascent , <i>Chair:</i> Sara Maqrot, session 505 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 IPpractice
DURKHEIM Build A, Z 1 3rd floor 3x30 min	Mixed-Integer PDE-Constrained Optimization , <i>Organizer:</i> Sven Leyffer, session 63 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 MINLP
Salle 39 Build E, Z 1 3rd floor 3x30 min	Global Optimization for nonconvex MINLPs , <i>Organizer:</i> Hassan Hijazi, session 92 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 MINLP
Salle 35 Build B, Z 4 Intermediate 3x30 min	Recent Advances and Applications of MINLP , <i>Organizer:</i> Jose M Ucha, session 139 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 MINLP
LEYTEIRE Build E, Z 1 3rd floor 4x20 min	Algorithmic Fairness and Optimization , <i>Organizer:</i> Nisheeth K Vishnoi, session 161 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 APPROX
Salle 43 Build C, Z 1 3rd floor 3x30 min	Algorithmic Discrepancy , <i>Organizer:</i> Nikhil Bansal, session 164 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 APPROX
SIGALAS Build C, Z 2 2nd floor 3x30 min	Packing Steiner Trees , <i>Organizer:</i> Stephan Held, session 260 DIRK MÜLLER, Global Routing with Timing Constraints			PIETRO SACCARDI, Steiner Tree Packing in Rhomboidal Tiles TILMANN BIHLER, Reach- and Direction-Restricted Rectilinear Steiner Trees COMB
Salle 41 Build C, Z 1 3rd floor 4x20 min	Optimization problems in graphs and related , <i>Chair:</i> Claudio Arbib, session 423 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 submodular MATTEO TONELLI, On uncapacitated metric location and pricing COMB

Optimization under Uncertainty - Friday 5:00 PM – 6:30 PM				
Room				
Salle 30 Build B, Z 5 Ground Floor 3x20 min	Topics in stochastic optimization. <i>Chair:</i> Quentin Mercier, session 494 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			Stoch
Salle 37 Build B, Z 4 Intermediate 4x20 min	Robust Combinatorial Optimization II. <i>Organizer:</i> Agostinho Agra, session 168 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			Robust
Salle 33 Build B, Z 5 Ground Floor 3x30 min	Wasserstein Distributionally Robust Optimization. <i>Organizer:</i> Peyman Mohajerin Esfaha, session 448 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			Robust
Salle 31 Build B, Z 5 Ground Floor 3x30 min	Tractability and approximation algorithms in dynamic programming. <i>Chair:</i> Alexander V. Hopp, session 383 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			Markov

Continuous Optimization - Friday 5:00 PM – 6:30 PM						
Room						
GINTRAC Build Q, Z 8 Ground Floor 3x30 min	Moment relaxations for polynomial optimization with symmetries, <i>Organizer:</i> Markus Schweighofer, session 10 FRANK VALLENTIN, Coloring the Voronoi tessellation of lattices			CORDIAN RIENER, Semidefinite optimization and arithmetic progressions	PHILIPPE MOUSTROU, The upper density of sets avoiding norm one in the real space of dimension n	NLP
Salle KC7 Build K, Z 10 Intermediate 2 3x30 min	Subspace methods in NLP II, <i>Organizer:</i> Panos Parpas, session 44 PANOS PAPPAS, Distributed Subspace Decomposition			EMRE MENGI, Subspace Frameworks for Eigenvalue Optimization	JAROSLAV FOWKES, A block-coordinate Gauss-Newton method for nonlinear least squares	NLP
Salle 05 Build Q, Z 11 1st floor 4x20 min	Primal-dual and ADMM algorithms for nonlinear programming, <i>Organizer:</i> Marco Sciandrone, session 91 AHMET ALACAOGU, 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	NLP
Salle 9 Build N, Z 12 4th floor 3x20 min	Linear Optimization I, <i>Chair:</i> Jianming Shi, session 415 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	NLP
Salle 20 Build G, Z 6 1st floor 3x30 min	Global Optimization 1, <i>Chair:</i> Jean-Baptist Hiriart-Urruty, session 501 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	Global
Salle 8 Build N, Z 12 4th floor 3x30 min	Nonsmooth DC optimization with applications, <i>Chair:</i> Napsu Karmitsa, session 46 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	NonSmooth
Salle LC4 Build L, Z 9 Intermediate 1 3x30 min	Nonconvex Optimization: Theory and Methods - Part 3, <i>Organizer:</i> Genaro Lopez, session 188 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?	NonSmooth
Salle AURIAC Build G, Z 6 1st floor 3x30 min	Computer-assisted analyses of optimization algorithms II, <i>Organizer:</i> Adrien Taylor, session 16 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	SDP
Salle LC5 Build L, Z 10 Intermediate 1 3x30 min	Sparse Semidefinite Programming, <i>Organizer:</i> Somayeh Sojoudi, session 17 MARTIN ANDERSEN, Sparse Semidefinite Relaxations of Communicability-Based Graph Partition Problem			CEDRIC JOSZ, Lasserre hierarchy for large scale polynomial optimization	SOMAYEH SOJOUDI, Fast Algorithms for Max-Det Matrix Completion and Graphical Lasso	SDP
Salle 06 Build Q, Z 11 1st floor 3x30 min	Nonlinear Optimization and Variational Inequalities IV, <i>Organizer:</i> Cong Sun, session 144 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	Variat
Salle ARNOZAN Build Q, Z 8 Ground Floor 4x20 min	Variational Analysis 2, <i>Organizer:</i> David Salas, session 367 BA KHIEU 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
Salle KC6 Build K, Z 10 Intermediate 1 4x20 min	Algorithms for Structured Statistical Optimization, <i>Chair:</i> Ilker Birbil, session 349 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 21 Build G, Z 6 Intermediate 2x30 min	Derivative-free global optimization algorithms, <i>Chair:</i> Zaikun Zhang, session 41 LIMENG LIU, Optimization with global surrogate and trust-region assisted local search			ANNE AUGER, Benchmarking Bayesian, Derivative-Free, and Stochastic Blackbox Algorithms		DerFree

Room					Specific Models, Algorithms, and Software - Friday 5:00 PM – 6:30 PM				
FABRE Build J, Z 8 Ground Floor 4x20 min	Spectral and Semidefinite Methods for Learning , <i>Organizer:</i> Martin Jaggi, session 321 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			Learning
Salle 18 Build I, Z 7 1st floor 4x20 min	Transportation networks , <i>Chair:</i> Bernard Gendron, session 359 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			Network
Salle 16 Build I, Z 7 2nd floor 2x20 min	Logistics Networks , <i>Chair:</i> El Hassan Laaziz, session 468 YASUSHI NARUSHIMA, Robust supply chain network equilibrium model with random demands			GUILLAUME MARQUES, Method Benchmarking for Two-Echelon Capacitated Vehicle Routing				Logistics	
Salle 23 Build G, Z 6 3rd floor 3x30 min	Energy-aware planning and scheduling 2 , <i>Organizer:</i> Christian Artigues, session 178 PAUL JAVAL, Modelling uncertainties in short-term operational planning optimization			AURÉLIE FROGER, Solving an electric vehicle routing problem with capacitated charging stations	CHRISTIAN ARTIGUES, Polyhedral approach for a continuous energy-constrained scheduling problem				Energy
Salle 24 Build G, Z 6 3rd floor 3x20 min	Stochastic Methods for Energy Optimization , <i>Chair:</i> Tristan Rigaut, session 294 CLARA LAGE, Stabilization of Price Signals in Energy Optimization			GUILHERME MATEUS RAMALHO, Stochastic Unit Commitment Problem: an Exact Probabilistic Constrained Approach	TRISTAN RIGAUT, Long term management of energy storage using stochastic optimization				Energy
Salle LA4 Build L, Z 8 Basement 4x20 min	Optimization and Game Theory , <i>Organizer:</i> Veerle Timmermans, session 402 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			Sciences
PITRES Build O, Z 8 Ground Floor 3x30 min	Computational Integer Programming II , <i>Organizer:</i> Domenico Salvagnin, session 274 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 Dis-ablement: a practical Implementation of the Kernel Simplex Method				Algo