

VWCO25

3rd Vienna Workshop on Computational Optimization

June 4-6, 2025
Vienna, AUSTRIA

Wednesday, June 4

08:30 - 08:50 Registration

08:50 - 09:00 Opening Ceremony

Session 1

09:00 - 09:40 **Amir Beck** *"A Dynamic Smoothing Technique for a Class of Nonsmooth Optimization Problems on Manifolds"*

09:40 - 10:20 **Heinz Bauschke** *"On Opial's Lemma"*

10:20 - 10:45 **Caroline Geiersbach** *"Optimality conditions and approximation in infinite-dimensional stochastic optimization"*

10:45 - 11:15 Coffee Break

Session 2

11:15 - 11:55 **Guillaume Carlier** *"Quantitative stability of push-forwards by optimal maps"*

11:55 - 12:20 **Dang-Khoa Nguyen** *"Fast numerical methods in continuous and discrete times"*

12:20 - 14:00 Lunch Buffet

Session 3

14:00 - 14:40 **Simge Küçükyavuz** *"Mixed-Integer Convex Optimization for Statistical Learning: A Tale of Two C(omplex)ities"*

14:40 - 15:20 **Jacek Gondzio** *"Cutting Planes, Column Generation and Decomposition with Interior Point Methods"*

15:20 - 15:50 Coffee Break

Session 4

15:50 - 16:30 **Kurt Anstreicher** *"Extended Triangle Inequalities for Nonconvex Box-Constrained Quadratic Programming"*

16:30 - 16:55 **Morteza Kimiaei** *"Heuristic methods for noisy derivative-free bound-constrained mixed-integer optimization"*

17:30 Evening Reception

Thursday, June 5

Session 5

09:00 - 09:40 **Daniel Kuhn** *"Distributionally Robust Linear Quadratic Control"*

09:40 - 10:20 **Claudia Sagastizábal** *"Expanding the reach of splitting methods"*

10:20 - 10:45 **Gabriela Kovacova** *"Active Learning for Convex Projection"*

10:45 - 11:15 Coffee Break

Session 6

11:15 - 11:55 **Peter Richtárik** *"From the Ball-proximal (Broximal) Point Method to Efficient Training of LLMs"*

11:55 - 12:20 **Axel Böhm** *"How much should you bet, if the odds are in your favor?"*

12:20 - 14:00 Lunch Buffet

Session 7

14:00 - 14:40 **Luis Nunes Vicente** *"Pareto sensitivity, most-changing sub-fronts, and knee solutions"*

14:40 - 15:20 **Gabriele Eichfelder** *"Enclosures and local upper bounds in multiobjective optimization"*

15:20 - 15:50 Coffee Break

Session 8

15:50 - 16:30 **Gabor Pataki** *"Combinatorial certificates in SDP duality: how elementary row operations help"*

16:30 - 16:55 **Michael Kahr** *"Homogeneous (tram) usage dispatch problem"*

16:55 - 17:20 **Markus Gabl** *"Finding and exploiting quadratic underestimators for optimal value functions of nonconvex all-quadratic problems via copositive optimization"*

18:00 Workshop Dinner

Friday, June 6

Session 9

09:00 - 09:40 **Petra Mutzel** *"Computational Optimization in Geodesy"*

09:40 - 10:20 **Yurii Malitskyi** *"Implicit bias in optimization algorithms"*

10:20 - 10:45 **Stefan Neumann** *"Modeling the Impact of Timeline Algorithms on Opinion Dynamics Using Low-rank Updates"*

10:45 - 11:15 Coffee Break

Session 10

11:15 - 11:55 **Francesco Rinaldi** *"Direct Search Methods for Stochastic Zeroth-Order Problems"*

11:55 - 12:20 **Gramoz Goranci** *"Nested Dissection Meets IPMs: Planar Min-Cost Flow in Nearly-Linear Time"*

12:20 - 14:00 Lunch Buffet