

Schedule VWCO23, March 15-17, Vienna

Wednesday, March 15, 2023

8.30-8.45 Registration
8.45-9.00 Opening

Section 1 – Chair Birgit Rudloff (WU)

9.00-9.45 Andrzej Ruszczyński (Rutgers University) *Stochastic optimization and learning with risk-averse objectives*
9.45-10.15 Niklas Hey (WU) *Computing an approximate set of Nash equilibria for convex Nash games via vector optimization*
10.15-10.45 Coffee break
10.45-11.30 René Henrion (Weierstrass Institute Berlin) *Turnpike phenomenon in discrete-time optimal control with probabilistic constraint*
11.30-12.00 Nurtai Meimanjan (WU) *Computation of systemic risk measures: a mixed-integer programming approach*
12.00-12.30 Aleksandr Shevchenko (ISTA) *Fundamental limits of two-layer autoencoders, and achieving them with gradient methods*
12.30-2.00 Lunch break

Section 2 – Chair Radu Boț (University of Vienna)

2.00-2.45 Hedy Attouch (Université de Montpellier) *Fast convex optimization via damped inertial dynamics with Tikhonov regularization*
2.45-3.15 David Alexander Hulett (University of Vienna) *From maximally monotone operators to linearly constrained problems*
3.15-3.45 Coffee break
3.45-4.30 Andrea Walther (Humboldt Universität zu Berlin) *On nonsmooth optimization based on absolute linearization*
4.30-5.00 Axel Böhm (University of Vienna) *Beyond the golden ratio for variational inequality algorithms*
5.00-5.30 Mikhail Karapetyants (University of Vienna) *Fast continuous time approaches for convex nonsmooth optimization using Tikhonov regularization technique*
5.30 Welcome Reception (Sky Lounge)

Thursday, March 16, 2023

Section 1 – Chair Immanuel Bomze (University of Vienna)

9.00-9.45 Jean Bernard Lasserre (CNRS Toulouse) *The Christoffel function: Some of its applications and connections*
9.45-10.15 Jeferson Zapata *Hybrid methods in semidefinite programming*
10.15-10.45 Coffee break

10.45-11.30 Ivana Ljubic (ESSEC Business School of Paris) *Bilevel optimization under uncertainty*
11.30-12.00 Bo Peng (University of Vienna) *Lower bounds for structured nonconvex quadratic optimization problems*
12.00-12.30 Markus Gabl (Karlsruhe Institute of Technology) *Concave tents: A new approach to optimizing nonlinear convex functions over nonconvex set*
12.30-2.00 Lunch break

Section 2 – Chair Günther Raidl (TU Wien)

2.00-2.45 Sebastian Pokutta (TU Berlin) *Conditional Gradients - an overview*
2.45-3.15 Alexandra Peste (ISTA) *Effects of neural network compression beyond accuracy*
3.15-3.45 Coffee break
3.45-4.30 Pascal van Hentenryck (Georgia Tech) *Machine learning for optimization*
4.30-5.00 Marc Huber (TU Wien) *A policy-based learning beam search for combinatorial optimization*
5.00-5.30 Tommaso Mannelli Mazzoli (TU Wien) *Adaptive large neighborhood search for the bus driver scheduling problem*
5.30 Workshop Dinner (Restaurant Porzellan Lounge)

Friday, March 17, 2023

Section 1 – Chair Monika Henzinger (ISTA)

9.00-9.45 Michael Mitzenmacher (Harvard University) *Algorithms with predictions*
9.45-10.15 Lara Ost (University of Vienna) *Dynamic demand-aware link scheduling for reconfigurable datacenters*
10.15-10.45 Coffee break
10.45-11.30 Harald Räcke (TU München) *Hop-constrained expander decompositions, oblivious routing, and distributed universal optimality*
11.30-12.00 Sricharan Arunapuram (University of Vienna) *Electrical flows for polylogarithmic competitive oblivious routing*
12.00-12.30 Maximilian Vötsch (University of Vienna) *Online min-max paging*
12.30-2.00 Lunch break

Section 2 – Chair Nysret Musliu (TU Wien)

2.00-2.45 Guoyin Li (University of New South Wales Sydney) *Proximal methods for nonsmooth and nonconvex fractional programs: when sparse optimization meets fractional programs*
2.45-3.15 Ida Gjergji (TU Wien) *A large neighborhood search for the capacitated p -median problem*
3.15-3.45 Coffee break
3.45-4.15 Beryl Ramadhian Aribowo (University of Vienna) *Optimization in data science: 100 energies to learn molecular chemistry?*
4.15-4.45 Nikolaus Frohner (TU Wien) *Approaches to same-day delivery problems with soft deadlines*