

May 16-19, 2023, Montréal, Canada

Tuesday, May 16

18:00

Welcome cocktail and dinner (Hyatt Place Montréal-Downtown hotel)

Wednesday, May 17

8:40	Opening session
	Session 1
8:45	ML-based heuristic branch-and-price for the aircrew pairing problem Pierre Pereira, Emeric Courtade, Daniel Aloise, Frédéric Quesnel, François Soumis, Yassine Yaakoubi
9:10	The sharpest bin-packing column Fabio Furini, Stefano Coniglio, Fabio D'Andreagiovanni
9:35	A branch-price-and-cut algorithm for the joint order batching and picker routing problem with scattered storage Katrin Heßler, Stefan Irnich
10:00	Strengthened route-based formulations and a branch-cut-and-price algorithm for split delivery vehicle routing problems Pedro Munari, Isaac Balster, Teobaldo Bulhões, Artur Alves Pessoa, Ruslan Sadykov
10:25	Coffee break
	Session 2
10:55	A scalable exact algorithm for minimum disturbance rerouting to optimize bandwidth usage Brigitte Jaumard, David Coudert, Huy Duong
11:20	The electric vehicle routing and overnight charging scheduling problem on a multigraph Daniel Yamin, Guy Desaulniers, Jorge E. Mendoza
11:45	Branch-and-price: Good to know Jacques Desrosiers, Marco Lübbecke, Guy Desaulniers, Jean-Bertrand Gauthier
12:10	Lunch
	Session 3
13:45	Local center cutting plane framework Issmail El Hallaoui, Mohamed El Fassi
14:10	A partial duty formulation for a crew scheduling problem Twan Dollevoet, Remy Spliet
14:35	Dantzig-Wolfe: from data-driven decomposition to parallel resolution
	Alberto Ceselli, Saverio Basso
15:00	Graph master and local area routes for efficient column generation for the capacitated vehicle routing problem with time windows Udayan Mandal, Amelia Regan, Louis-Martin Rousseau, Julian Yarkony
15:25	Coffee break

	Session 4
15:55	Resource-window reduction by reduced costs in path-based formulations for routing and scheduling problems Stefan Irnich, Nicola Bianchessi, Timo Gschwind
16:20	SMS++: a system for structured optimization, with applications Antonio Frangioni, Rafael Durbano Lobato, Wim van Ackooij
16:45	Exact methods for hierarchical clustering Rick Willemsen, Carlo Cavicchia, Wilco van den Heuvel, Michel van de Velden

Thursday, May 18

	Session 5
8:45	The complexity of pricing in the two-stage vehicle routing problem Ricardo Fukasawa, Joshua Gunter, Matheus Ota
9:10	A branch-and-price method for the pickup and delivery problem with truck driver scheduling Magnus Stålhane, Ole Johannes Lindseth, Simen Sørum
9:35	Revisiting column generation based matheuristic for learning classification trees Krunal Patel, Guy Desaulniers, Andrea Lodi
10:00	On solving the minmax multiple traveling salesman problem by column generation Nicola Bianchessi, Christian Tilk, Stefan Irnich
10:25	Coffee break
	Session 6
10:55	Incorporating holding costs in continuous-time service network design: New model, relaxation, and exact algorithm Roberto Baldacci, Shengnan Shu, Zhou Xu
11:20	Branch-price-and-cut-based solution of order batching problems Julia Wahlen, Timo Gschwind
11:45	Coluna.jl: an open-source platform to implement your creative algorithmic strategies based on Dantzig-Wolfe and Benders decomposition approaches
	Guillaume Marques, Vitor Nesello, Artur Pessoa, Ruslan Sadykov, François Vanderbeck
12:10	Lunch
14:00 - 18:30	Social activities
19:00 - 22:00	Workshop dinner

Friday, May 19

	Session 7
8:45	Branch-and-Cut-and-Price for Multi-Agent Pickup and Delivery Edward Lam, Peter Stuckey, Daniel Harabor
9:10	A bidirectional labeling algorithm for solving the vehicle routing problem with drones Jeanette Schmidt, Christian Tilk, Stefan Irnich
9:35	Constraint aggregation and integral simplex for set partitioning problems François Soumis, Alpha-Saliou Barry, Issmail El Hallaoui, Frédéric Quesnel
10:00	A combinatorial flow-based formulation for temporal bin packing problems John Martinovic, Nico Strasdat, José Valério de Carvalho, Fabio Furini
10:25	Coffee break

	Session 8
10:55	The first column generation algorithms Eduardo Uchoa, Ruslan Sadykov
11:20	A branch-price-and-cut algorithm for the multi-commodity two-echelon vehicle routing problem with time windows Tayeb Mhamedi, Marilène Cherkesly, Guy Desaulniers
11:45	Integer programming column generation: Accelerating branch-and-price for set covering, packing, and partitioning problems Stephen J. Maher, Elina Rönnberg
12:10	Lunch
	Session 9
13:45	A route relaxation based on the spatial aggregation of nodes for the generalized vehicle routing problem François Lamothe, Claudio Contardo, Matthieu Gruson, Rafael Martinelli
14:10	Online optimization of a dial-and-ride problem with the integral primal simplex Antoine Legrain, Elahe Amiri, Issmail El Hallaoui
14:35	Dynamic railway crew planning with fairness over time Bart van Rossum, Twan Dollevoet, Dennis Huisman
15:00	Learning dual inequalities for column generation Louis Popovic, Guy Desaulniers, Quentin Cappart
15:25	Coffee break