

AMSI OPTIMISE WORKSHOP PROGRAM

Overview

Time	Thursday, 29 th June	Friday, 30 th June
9-9.45	Plenary: Alejandro Joffre	Plenary: Roberto Cominetti
9.45-10.30	National Plenary 1 Guoyin Li	National Plenary 2 Maria Garcia de la Banda
10:30-11	MORNING TEA	MORNING TEA
11:00-11:30	Talk (conference sponsor)	4 x 20min Talks – Healthcare + 10 min questions
11:30-12:30	3 x 20min Talk - Routing	
12:30-1:30	LUNCH	LUNCH
1:30-3pm	2 x 20min Talk – Radiotherapy 2 x 20min Talk - Scheduling + 10 min questions	Plenary: Steve Wright (45min)
		2x 20 min Talk – Stochastic MIP + 5 min questions
3-3.30pm	AFTERNOON TEA	AFTERNOON TEA
3.30pm-5pm	5 x 20min Talks – Continuous Opt. + 10 min questions Finish by 5:15pm	2x 20min Talks – Applications Finish by 4:15pm

Contributed Talks

Time	Speaker	Title
Thu 11:00	Ashwin Zade	Simulation-guided Optimization Algorithms for Real-time Train Scheduling
Thu 11:30	Russell G. Thompson	Optimising Courier Routes in Central Business Districts
Thu 11:50	A. A. N. Perwira Redi	Selective Discrete Symbiotic Organism Search for Capacitated Vehicle Routing Problem
Thu 12:10	C. Yalçın Kaya	Optimal Path Planning
Thu 13:30	Davaa Baatar	Minimizing the Number of Apertures in Multileaf Collimator Sequencing with Field Splitting
Thu 13:50	Michelle Dunbar	Mathematics in Medicine: Optimising Image Acquisition and Cancer Treatment in Radiotherapy

Thu 14:10	Steven Edwards	Scheduling automated cell staining: an iterative approach
Thu 14:30	Kenneth Young	A hybrid Benders decomposition of the Assembly Line
Thu 15:30	Regina S. Burachik	An approach for the convex feasibility problem via Monotropic Programming
Thu 15:50	Alexander Kruger	Regularity of mappings vs transversality of collections of sets
Thu 16:10	Vera Roshchina	Open problems in convex optimisation
Thu 16:30	Scott Lindstrom	Regularizing with Bregman-Moreau envelopes
Thu 16:50	Minh Dao	Linear convergence of projection algorithms
Fri 11:00	Ashwani Kumar	Optimising Patient Flow and Throughput in a Surgical Suite
Fri 11:20	Ellie Dillon	A two-stage stochastic programming model for inventory management in the blood supply chain
Fri 11:40	Belinda Spratt	Reactive Multi-Operating Room Surgical Case Sequencing Problem
Fri 12:00	Joseph Bunton	A Large Neighbourhood Search approach for the Nurse Rostering Problem
Fri 14:15	Prof. Andrew Eberhard	Computing high-quality Lagrangian bounds of the stochastic mixed-integer programming problem
Fri 14:35	Fabricio Oliveira	Efficiently Solving Stochastic Mixed-Integer Problems combining Gauss-Siedel and Penalty-Based methods
Fri 15:30	Ilankaikone Senthoooran	Modelling a water supply system to generate long-term operating plans
Fri 15:50	Rehan Abdul Aziz	Optimising a Vendor Managed Inventory Problem in the Fuel Industry