

CASPT 2006 Programme

Tuesday 20 June

1600 – 1830 Registration and Reception at Weetwood Hall

Wednesday 21 June

0800 – 1500 Registration

0815 – 0845 Refreshments

0845 – 0900

Opening Welcome (Headingley 1 & 2)

0900 - 1030

Timetables Planning I (Headingley 1 & 2)

Automated railway timetable generation - progress in the UK?

Robert Watson

Stochastic optimization of cyclic railway timetables

Leo G. Kroon, Michiel J.C.M. Vromans

Philosophies of timetabling, definitions of bottlenecks and the usefulness of spreadsheets: the experience of a practical strategic timetable planner

Jonathan Tyler

1030 – 1100 Refreshments

1100 – 1230

Crew Scheduling I (Headingley 1)

Driver scheduling problem modelling

Rita Portugal, Helena R. Lourenço, José P. Paixão

Bi-objective evolutionary heuristics for bus drivers rostering

Margarida Moz, Ana Respicio, Margarida Vaz Pato

An update on the use of windows of relief opportunities to obtain improved train driver schedules

Ignacio Laplagne, Raymond S K Kwan, Ann S K Kwan

Operations Control (Headingley 2)

Research into the operational control of buses utilizing the GPS probe terminals
Shuichi Matsumoto, Naoki Shirane, Yasuhiko Kumagai, Hironao Kawashima

An examination of take-off scheduling constraints at London Heathrow Airport
Jason Atkin, Edmund Burke, John Greenwood, Dale Reeson

Operations control strategies to improve transfers between high-frequency urban rail lines
Corey Wong, Nigel Wilson

1230 – 1330 Lunch

1330 – 1500

Transit Route Planning (Headingley 1)

Optimal planning and design of radial bus routes

Shai Jerby, Avishai Ceder

Reliability-based timepoint and recovery schedules for long headway transit routes

Peter G. Furth, Theo H.J. Muller

Routing strategies for BMTA buses - Decision evaluation using simulation

Rajluxmi V. Murthy, T.V. Ramanayya

Integrated Scheduling (Headingley 2)

Using column generation to plan gates and buses at Amsterdam Airport Schiphol

Guido Diepen, Marjan van den Akker, Han Hoogeveen, Job Smeltink

Branching approaches for the integrated vehicle and crew scheduling

Marta Mesquita, Ana Paías, Ana Respicio

Integrated vehicle and crew scheduling in practice

Charles Fleurent, Jean-Marc Rousseau

1500 – 1520 Refreshments

1520 Coaches leave for York

1730 – 1900 Guided walk in York

1900 – 2215 Drinks reception & Conference Banquet

National Railway Museum, York

2215 Coaches return to Leeds

Thursday 22 June

0815 – 0845 Refreshments

0845 – 1030

Systems and Practice (Headingley 1 & 2)

Passenger information systems in public mass transit: Where we are and where we go

Joachim R. Daduna, Gabriele Schneidereit, Stefan Voß

Feasibility trial of automatic train crew scheduling at Southern Railway

Mike Salmon

Experience of computer-aided schedules planning in a diverse bus group

David Houston

1030 – 1100 Refreshments

1100 – 1230

Crew Scheduling II (Headingley 1)

Decision support for crew rostering at NS

Anneke Hartog, Dennis Huisman, Erwin J.W. Abbink, Leo G. Kroon

Network models for a decomposed pricing problem in crew scheduling

Ingmar Steinzen, Vitali Gintner, Leena Suhl

Hybridizing the genetic algorithm and the simulated annealing for the airline crew rostering problem

Nadia Souai, Jacques Teghem

Transit Planning (Headingley 2)

Service regularity analysis for urban transit network design

Niels van Oort, Rob van Nes

Urban development with sustainable public transit services

Hong K. Lo, Z.W. Wang

Congested multimodal transit network design

Quentin K. Wan, Hong K. Lo

1230 – 1330 Lunch

1330 – 1500 Free

1500 – 1530 Refreshment

1530 – 1730

Schedule Robustness I (Headingley 1)

Delay resistant timetabling

Christian Liebchen, Sebastian Stiller

An optimisation-simulation framework for the delay management problem
in public transportation

Luigi De Giovanni, Martine Labb

A new time window model for integrated optimisation of airline schedules for robustness

*E. K. Burke, P. De Causmaecker, G. De Maere, J. Mulder,
M. Paelinck, G., Vanden Berghe*

Feature based prediction for airline schedule robustness

*E. K. Burke, P. De Causmaecker, G. De Maere, J. Mulder,
M. Paelinck, G., Vanden Berghe*

Vehicle Scheduling (Headingley 2)

Depot-constrained transit vehicle scheduling

Avishai Ceder

Dynamically configured λ -opt heuristics for bus scheduling

Prapa Rattadilok, Raymond S K Kwan

Railway rolling stock planning

Jesper Hansen, Tomas Lidén

An overview on vehicle scheduling models in public transport

S. Bunte, N. Kliewer, L. Suhl

Friday 23 June

0815 – 0845 Refreshments

0900 – 1030

Crew Scheduling III (Headingley 1)

Identifying driver preferences for work shift structures

Felipe Miranda, Juan Carlos Muñoz, Juan de Dios Ortúzar

The requirement for a dynamic bus crew scheduling system

Tillal Eldabi, George Rzevski, Abdul Shibghatullah

Integrating a multi-dimensional input criterion for airline crew rostering

Farizah Azmah Ridzuan, Ahamad Tajudin Khader

Schedule Robustness II (Headingley 2)

Bus rescheduling problem - revisited

Jing-Quan Li, Pitu B. Mirchandani, Denis Borenstein

Re-scheduling and delay management: an integrated approach

Anita Schoebel

Improving efficiency and robustness in crew scheduling

Ann S K Kwan, Raymond S K Kwan

1030 – 1100 Refreshments

1100 – 1230

Flexible Transport (Headingley 1)

An experimental comparison of two flexible transit systems

Fausto Errico, Federico Malucelli, Maddalena Nonato, Roberto Wolfler Calvo

The integrated dial-a-ride problem

H. Andersson, C. H. Häll, J. T. Lundgren, P. Värbrand

Dynamic railway rescheduler using intelligent agents

Sundaravalli Narayanaswami, Narayan Rangaraj

Multi-objective/criterion (Headingley 2)

A multi-objective metaheuristic approach for the transit network design problem

Antonio Mauttone, Maria E. Urquhart

MILATRAS Prototype: A transit assignment model based on experiential learning

Mohamed Wahba, Amer Shalaby

Pairing, headway distributions and dwell time

Giuseppe Bellei, Konstantinos Gkoumas

1230 – 1330 Lunch

1330 – 1430

Timetables Planning II (Headingley 1)

Network design model for generating transit timetables

Pierluigi Coppola

Automated timetable design for demand-oriented service on suburban railways

Thomas Albrecht

Trip Paths & Timing (Headingley 2)

Using primitive AVL data for bus travel time estimation

Aichong Sun, Mark Hickman

Evaluation of shortest path algorithms

Nicolas Lassabe, Alain Berro, Yves Duthen

1445 – 1500

Closing (Headingley 1 & 2)

1500 – 1530 Refreshments