

9.00

Invited Lecture II

Chairperson: Angel Corberán

Recent Algorithmic Advances for Arc Routing Problems

Gianpaolo Ghiani, Alain Hertz, Gilbert Laporte

TRISTAN IV Triennial Symposium on Transportation Analysis

FRIDAY
June 15

Room A

10.00

Air Transportation I

Chairperson: Lucio Bianco

The Approximate Network Delays Model

Kerry M. Malone, Amedeo R. Odoni

A Comparison Among Random Utilities and Time Series Models to Forecast Air Travel Demand

M.N. Postorino, F. Russo

11.30

Air Transportation II

Chairperson: Kerry Malone

Aircraft Flow Scheduling in the Terminal Maneuvering Area

Lucio Bianco, Paolo Dell'Olmo, Stefano Giordani

Analysis of Demand Uncertainty Effects in Ground Delay Programs

Michael Ball, Thomas Vossen, Robert Hoffman

Airline Fleet Assignment and Extensions: A New Model and Solution Approach

Cynthia Barnhart, Amr Farahat, Manoj Lohatepanont

14.00

Dynamic Assignment I

Chairperson: Mike Bell

Modeling Travel Times in Dynamic Transportation Networks; A Fluid Dynamics Approach

Soulaymane Kachani, Georgia Perakis

Time-of-day Modeling Using a Quasi-dynamic Equilibrium Assignment Approach

Jim Stada, Steven Logghe, Griet De Ceuster, Ben Immers

Analytical Multiclass Dynamic Traffic Assignment: Some Results Concerning Model Inputs and Outputs

Michiel C.J. Bliemer, Piet H.L. Bovy

16.30

Dynamic Assignment II

Chairperson: Georgia Perakis

A Combinatorial User Optimal Dynamic Traffic Assignment Algorithm

S. Travis Waller, Thanasis Ziliaskopoulos

Continuous and Discrete Trajectory Models for Dynamic Traffic Assignment

Hillel Bar-Gera, David Boyce

Algorithms for Shortest Path Problems in Continuous-Time Dynamic Networks

Ismail Chabini

18.00

Panel I

Chairperson: Teodor Gabriel Crainic

E-commerce, Transportation, Operations Research

Maria Grazia Speranza, Amelia Regan, Paolo Dell'Olmo

Room B

10.00

Transportation II

Chairperson: Shoshana Anily

The Vehicle Routing Problem with Simultaneous Pickup and Delivery

Bernard Gendron, Frédéric Semet, Cyril Strozzyk

Dispatching of an Electric Monorail System: Applying Meta-Heuristics to an Online Pickup and Delivery Problem

Kai Gutenschwager, Christian Niklaus, Stefan Voß

11.30

Simulation

Chairperson: Ismail Chabini

Mesosimulation of Within-day Dynamics in Transportation Systems

Mauro Dell'Orco

A Multi-Lane Extension of the Space-Time Queue Model of Traffic Dynamics

M. Mahut

Calibration of Microscopic Traffic Simulation Models

M. Ben-Akiva, A. Davol, H. N. Koutsopoulos, T. Toledo

14.00

ITS and Advanced Technologies

Chairperson: Jean-Patrick Lebacque

Transportation and Information Management to Facilitate Mass Customization

June Ma, Linda K. Nozick, Mark A. Turnquist, Jeffrey Tew, Lynn Truss, Ted Costy

A Doubly Dynamic Assignment Model for the Simulation of Advanced Travels Information System

Ennio Cascetta, Pierluigi Coppola

An ITS Model for Motorway Traffic Management and Control

R. Camus, G. Longo

16.30

Traffic Control

Chairperson: Mauro Dell'Orco

A Motorway-to-Motorway Control: Overview of Simulation and Field Trial Results in France

Habib Haj-Salem

Speed Limit Control: a Problem Formulation and Theoretical Discussions

Jean Patrick Lebacque, Habib Haj-Salem

Logic Programming for Intelligent Traffic Control

Giovanni Felici, Giovanni Rinaldi, Antonio Sforza, Klaus Truemper

Room C

10.00

Crew Scheduling II

Chairperson: Jacques Desrosiers

Improving Crew Scheduling by Incorporating Key Maintenance Routing Decisions

Amy Mainville Cohn, Cynthia Barnhart

Robust Airline Crew Scheduling

Diego Klabjan, Andrew J. Schaefer, Ellis L. Johnson, Anton J. Kleywegt, George Nemhauser

11.30

Vehicle and Crew Scheduling

Chairperson: Janny Leung

An Integrated Approach to Vehicle and Crew Scheduling

Dennis Huisman, Richard Freling, Albert P.M. Wagelmans

Simultaneous Multi-Depot Bus and Driver Scheduling

Guy Desaulniers, Jean-François Cordeau, Jacques Desrosiers

A Polyhedral Approach to Simplified Crew Scheduling and Vehicle Scheduling Problems

Matteo Fischetti, Andrea Lodi, Silvano Martello, Paolo Toth

14.00

Arc Routing

Chairperson: Oli Madsen

A Branch and Price Approach for a Profitable Arc Routing Problem

Dominique Feillet, Pierre Dejax, Michel Gendreau

The Capacitated Arc Routing Problem with Vehicle/Site Dependencies

John Sniezek, Lawrence Bodin, Laurence Levy, Michael Ball

A Variable Neighbourhood Descent for the Undirected Capacitated Arc Routing Problem

Alain Hertz, Michel Mittaz

16.30

Transportation III

Chairperson: Lawrence Bodin

Flexible Many-to-few + Few-to-many = an Almost Personalized Transit System

Teodor Gabriel Crainic, Federico Malucelli, Maddalena Nonato

Bee System: Modeling Combinatorial Optimization Transportation Engineering Problems by Swarm Intelligence

Panta Lucic, Dušan Teodorovic

The Vehicle Routing Game: An Application of Cost Allocation in a Gas and Oil Company

Stefan Engevall, Maud Göthe-Lundgren, Peter Värbrand