

9.00

Invited Lecture III

Chairperson: Michael Patriksson

Network Assignment Problems: Achievements and Challenges

Michael Florian

TRISTAN IV Triennial Symposium on Transportation Analysis

MONDAY
June 18

Room A

10.00

Traffic Flow Models

Chairperson: Warren B. Powell

Route Choice: Choice Set Generation and Probabilistic Choice Models

Shlomo Bekhor, Moshe E. Ben-Akiva, M. Scott Ramming

Modelling the Retail System Competition

Luigi De Giovanni, Franco Sanlorenzo, Roberto Tadei

11.30

Network Design I

Chairperson: Teodor Gabriel Crainic

Optimal Pricing and Network Design of a Multi-Modal Transport Network

Laura Wynter

A New Design Methodology for Large-Scale Logistic Integrated Networks

Maurizio Bielli, Agostino Villa

A Bilevel Model for a Network Design and Tariff Setting Problem

Luce Brotcorne, Martine Labbé, Patrice Marcotte, Gilles Savard

14.00

Network Design II

Chairperson: Mikael Rönnqvist

Cycle-Based Meta-Heuristics for Fixed-Charge Capacitated Multicommodity Network Design

Teodor Gabriel Crainic, Ilfat Ghamlouche, Michel Gendreau

Network Design through Sensitivity Analysis an Singular Value Decomposition

Guido Gentile, Natale Papola

Valid Inequalities for Multicommodity Capacitated Fixed Charge Network Design

Mervat Chouman, Teodor Gabriel Crainic, Bernard Gendron

16.30

Public Transportation

Chairperson: Michael Florian

A Dynamic Approach to Vehicle Scheduling

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

Mixed-Integer Models for the Delay Management Problem

Anita Schöbel

Multi-Modal Network with Probable Transfer Rules and Nonlinear Fare Structure

Hong K. Lo, C.W. Yip

Room B

10.00

Integrated Models in Logistics I

Chairperson: George Nemhauser

A Multi-Item Transportation Problem with a Inventory Costs

Shoshana Anily, Michal Tzur

A Local Search Algorithm for a Complex Distribution Network Design Problem

Daniela Ambrosino

11.30

Vehicle Routing I

Chairperson: Frederic Semet

Vehicle Routing with Time Dependent Demand

Ann Melissa Campbell, Martin Savelsbergh

Benders' Cuts for Solving Pickup-and-Delivery Travelling Salesman Problems

Juan-José Salazar-González

The Vehicle Routing Problem with Double and Triple Capacity, General Distances and Multiple Customer Visits

C. Archetti, R. Mansini, M.G. Speranza

14.00

Vehicle Routing with Time Windows

Chairperson: J.-J. Salazar-González

The Shortest Path Problem with K-Cycle Elimination ($K \geq 3$): Improving a Branch and Price Algorithm for the VRPTW

Stefan Irnich

A Dual Algorithm for the Vehicle Routing Problem with Time Windows

Brian Kallehauge

The Vehicle Routing Problem with Time Windows and Simultaneous Pick-up and Delivery

E. Angelelli, Renata Mansini

16.30

Panel I

Chairperson: Lawrence Bodin

Routing and Scheduling – Where Have We Come and Where Are We Going

Room C

10.00

Rail Transportation

Chairperson: Alain Hertz

Train Scheduling in Regional Railway Networks

Alessandro Mascis, Dario Pacciarelli, Marco Pranzo

Optimizing Complex Operational Problems under Incomplete Information, with an Application to Locomotive Power Management

Belgacem Bouzaiene-Ayari, Warren B. Powell, Arun Marar

11.30

Demand Estimation I

Chairperson: Gang Xu

A Method to Approximate the Steepest Descent Direction of the O-D Matrix Adjustment Problem

Esteve Codina, Lidia Montero

A New Algorithm for Real-Time Estimation of Dynamic OD Tables

Michel Bierlaire, Frank Crittin, Benoît Emonet

Estimation of the Time-Varying O/D Transit Matrices from Traffic Counts

A. Nuzzolo, U. Crisalli

14.00

Demand Estimation II

Chairperson: Esteve Codina

Dynamic OD Estimation Using Additional Information from Traffic Signal Lights Timing

Irina Matschke, Bernhard Friedrich

Modeling Spatial Characteristics of Transport Demand using GIS and Household Interview Survey Data

Soi-Hoi Lam, Chenfei Song

A Bi-Level Programming Approach for Trip Matrix Updating and Network Calibration

G. Xu, W.H.K. Lam

16.30

Demand Estimation III

Chairperson: Markos Papageorgiou

Traffic Sensor Location Strategies for Deriving Network and Origin/Destination Flows

Lucio Bianco, Giuseppe Confessore, Pierfrancesco Reverberi

Maximizing the Traffic Flow Information from a Partial Sensor Location

Lucio Bianco, Giuseppe Confessore, Monica Gentili