

Swiss Transport Research Conference 2007

Les résultats du forum annuel sur la recherche en matière de transports

La septième conférence suisse dédiée à la recherche dans le domaine des transports s'est tenue du 12 au 14 septembre 2007, au Tessin. Comme à l'accoutumée, elle a réuni autour du thème général des transports des chercheurs de Suisse et de l'étranger travaillant sur des sujets aussi divers que les aspects économiques des transports, le transport de marchandises, les transports publics, l'analyse de la performance ou encore les critères déterminant le choix du mode de transport. Vous trouverez ci-après une sélection de présentations. (langue : anglais)

Pour plus d'informations:

Swiss Transport Research Conference

<http://www.strc.ch/>

Swiss Transport Research Conference 2007

Ideenaustausch im Verkehrswesen

Vom 12. bis 14. September 2007 fand im Tessin die siebte Swiss Transport Research Conference statt. Diese Tagung sollte als Forum für die verschiedenen Forschungsansätze im Verkehrswesen und dem Austausch von Ideen dienen. Die Themen reichten von der Verkehrs- und Raumplanung über das Verkehrsverhalten und die Verkehrsmittelwahl bis hin zur Telematik. Hier finden Sie ausgewählte Referate. (Sprache: en)

Weitere Informationen:

Swiss Transport Research Conference

<http://www.strc.ch/>

2007 Conference proceedings

Programme

Keynotes

[Prof. Joan Walker, Boston University, USA :](#)

[Measuring Unobservables in Transport Models](#)

[Prof. Eddy Van de Voorde, Universiteit Antwerpen, Belgium:](#)

[Which Way to the Sea: Landlocked Countries, Sea Transport and Port Competition](#)

[Prof. Staffan Algers, KTH Stockholm, Sweden:](#)

[The Stockholm congestion charging trial](#)

[All papers can be downloaded as a CD image here](#)

Regular presentations

Session Transportation and the Environment

De Haan, Peters and Mueller (ETHZ):

[Reducing CO2 emissions from passenger cars by promoting energy-efficiency](#)

Mueller and de Haan (ETHZ):

[Technology diffusion of alternative vehicle technologies: What can be learnt from a simple agent-based model?](#)

Tanner and Leuenberger (Uni-BE)

[The Dynamics of Energy Demand of the Private Transportation Sector](#)

Session Economic Aspects of Transportation

Session Directions of Swiss Transportation Research

Flamm, Jemelin and Kaufman (EPFL):

[Combining person based GPS tracking and prompted recall interviews for a comprehensive understanding of travel behaviour adaptation processes during life course transitions](#)

Ciari, Balmer and Axhausen (ETHZ):

[Mobility Tool Ownership and Mode Choice Decision Processes in Multi-Agent Transportation Simulation](#)

Frejinger and Bierlaire (EPFL):

[Random Sampling of Alternatives for Route Choice Modeling](#)

Bert, Chung and Dumont (EPFL):

[Dynamic Origin-Destination Matrices Estimation Method for urban networks](#)

Session Statistical Modeling in Transportation - 1

Bodenmann (ETHZ):

[Company decisions on choice of location: Case study: St. Gallen region](#)

Kato, Imai and Axhausen (UNI-Tokyo and ETHZ):

[Value of Travel Time Savings of Urban Private Travel: Comparison of Tokyo and Karlsruhe](#)

van Eggermond, Schüssler and Axhausen (ETHZ):

[Consumer choice behavior and strategies of air transportation providers](#)

Session Network Transportation Modeling - 1

Chudak, Dos Santos Eleuterios and Nesterov (D-Wave Systems - ETHZ - UCL):

[Static Traffic Assignment Problem: A Comparison between Beckmann \(1956\) and Nesterov & de Palma \(1998\) models](#)

Osorio and Bierlaire (EPFL)

[Describing network congestion and blocking with an analytic queueing network model](#)

Vitins and Axhausen (Rapp - ETHZ)

[Optimization of Large Transport Networks Using the Ant Colony Heuristic](#)

Session Freight Transport and Logistics

Vacca, Bierlaire and Salani (EPFL):

[Optimization at container terminal: Status, trends and perspectives](#)

Bierlaire, Thémans and Zuffrey (EPFL, Laval)

[Nonlinear global optimization relevant to discrete choice models estimation](#)

Schüssler and Axhausen (ETHZ):

[Recent developments regarding similarities in transport modelling](#)

Steiner, Philipp and Schmid (ZHAW and Savannah Simulations):

[Parameter Estimation for a Pedestrian Simulation Model](#)

Session Statistical Modeling in Transportation - 2

Loechl (ETHZ):

[Considering spatial dependence in hedonic price regression](#)

Spasov, Bierlaire and Merminod (EPFL):

[Map-based Autonomous Personal Localisation Indoors](#)

Littlejohn and Joly (EPFL - LETS)

[The Daily Duration of Transportation: An Econometric and Sociological Approach](#)

Session Surveys of Transportation Choices

Schiffmann (ETHZ):

[Performance-based specification for the operational and structural road maintenance of communal road networks](#)

Fries (ETHZ):

[Labelling - A Path Towards Energy Efficiency in Freight Transport?](#)

Markianidou (TransportNET):

[Deindustrialisation and its consequences on Seaborne Trade](#)

Session Urban and Transportation Planning

Patterson and Bierlaire (EPFL):

[An UrbanSim Model of Brussels within a Short Timeline](#)

Zemp, Staffacher, Land and Scholz (ETHZ):

[Systemic perspectives on railway stations for sustainable transport and land use](#)

Maksim, Gallez and Kaufman (EPFL - INRETS):

[Evolution of transport and urban planning policy in Switzerland and France: Case studies of Geneva and Strasbourg](#)

Witter (TransportNet):

[The role of public urban transport in the context of social inclusion](#)

Session Maintenance and Safety

Schiffmann (ETHZ):

[Performance-based specification for the operational and structural road maintenance of communal road networks](#)

Weis (ETHZ):

[An online travel diary survey among members of ETH Zurich](#)

Peters and de Haan (ETHZ):

[Psychological determinants of car purchase behavior](#)

Session Network Transportation Modelling - 2

Steiner and Sick (ZHAW):

[New Methods for Travel Time Estimation on Freeway Sections](#)

Bhaskar, Chung, De Muzon and Dumont (EPFL):

[Travel Time Estimation on a Signalised Urban Networks using Cumulative Plots](#)

Bierlaire, Eggenberg and Salani (EPFL):

[Measuring Recovery of Disrupted Airline Schedules](#)

Session Public Transportation

Anderhub and Dorbritz (ETHZ):

[How many passengers can public transport systems handle and how much do they handle- A new approach to capacity](#)

Weber (ETHZ):

[COST 352: Influence of Modern In-vehicle Information Systems on Road Safety Requirements](#)

Alt (ETHZ):

[Investigation of space-time structures in public transport networks and their optimisation](#)

Zwanenburg (EPFL):

[The Swiss experience on the wear of railway switches and crossings](#)
[Short abstract: Using databases of the Swiss Federal Railways](#)

Mahadevan (ETHZ):

[Describing and Evaluating Train Services on the Swiss Railway Network from a New Perspective](#)

Pham, Chung and Dumont (EPFL):

[Applicability of road safety indicators to assess driving risks in Swiss road conditions](#)

Leyvraz, Bierlaire and Paulus (EPFL):

[Tools to evaluate future actions on the traffic in Lausanne](#)

Session Agent-based Modelling

Charypar, Axhausen and Nagel (ETHZ - Berlin Tech.):

[Flow Characteristics of a Queue-Based Traffic Flow Microsimulation](#)

Session Network Performance Analysis

Johner and Luethi (Emch+Berger - ETHZ):

[The Train Departure Process and its Impact on the Rail Network Performance](#)

Lefebvre and Balmer (ETHZ):

[Fast shortest path computation in time-dependent traffic networks](#)

Putallaz (Oxand):

[Strategic Track Maintenance and Renewal Policy Making, Related to Socio-economic Aspects of the Availability](#)

Meister, Charypar, Lefebvre et al. (ETHZ):

[An agent-based model of travel demand of all of Switzerland](#)

Erath (ETHZ):

[Graph-theoretical analysis of the Swiss railway and road networks over time](#)

Hackney (ETHZ):

[Social networks in transportation microsimulations](#)

Curchod (EPFL):

[Analysis of timetable stability and delays resulting of track maintenance works by means of simulation](#)