

# 9th STRC Swiss Transport Research Conference: Program of Wednesday, September 9th, 2009

12:10, 12:15, 13:10, 13:15 Bus transfer from Locarno SBB station to Monte Verità

12:30 Registration  
Sandwich lunch



Auditorium  
14:00 **Welcome by Prof. Kay W. Axhausen**  
14:15 **Keynote speech by Prof. Serge Hoogendoorn**  
*Emergency Modelling and Management: Psychology, Mathematics and Simulation*  
Chair: Kay W. Axhausen

15:30 Coffee

16:00-18:00 Slot A	<b>Session 1 (Auditorium)</b> <b>Utility Modelling</b> <b>Chair: Rico Maggi</b>	<b>Session 2 (Balint)</b> <b>Choice Modelling</b> <b>Chair: Panos Tzieropoulos</b>	<b>Session 3 (Eranos)</b> <b>Transportation and Environment</b> <b>Chair: Veronika Killer</b>
	Christof Zöllig (ETH, IVT): Where does the additional utility of an improvement to the transport system occur?	Jingmin Chen, Michel Bierlaire, Jeffrey Newman (EPFL, TRANP-OR): A method of probabilistic map distribution of path likelihood	Carl Oliva, Cornelia Huettenmoser Oliva (Oliva & Co.): The assessment and monetizing of noise affectedness due to air and road traffic
	Matthias Feil (ETH, IVT): Enhancement and empirical estimation of MATSim's utility function	Mamy Fetiarison, Michel Bierlaire (EPFL, TRANP-OR): Estimation of discrete choice models: extending BIOGEME	Francesco Ciari (ETH, IVT): Modeling collective taxis in a multi-agent traffic simulation framework
	Michel Bierlaire, Ricardo Hurtubia, Gunnar Flötteröd (EPFL, TRANP-OR): A comparative analysis of implicit and explicit methods to model choice set generation	Nadine Schüssler (ETH, IVT): Accounting for similarities in destination choice modelling: A concept	Sonia Lavadinho (EPFL, TRANP-OR): City alternative transport systems and their potential for the sustainable use of public-private hybrid modes: The case of Strasbourg
	Jeffrey Newman, Michel Bierlaire (EPFL, TRANP-OR): Properties, advantages, and drawbacks of the block logit model	Andreas Horni (ETH, IVT): Location choice modeling for shopping and leisure activities with MATSim: Utility function extension and validation results	Walter Ernst (Board member of Careforclimate.org): Presentation of the Project: Careforclimate.org

20:00 Dinner

## 9th STRC Swiss Transport Research Conference: Program of Thursday, September 10th, 2009

07:30 Breakfast

08:30-10:30  
Slot B

**Session 1 (Auditorium)**

**Simulation**

**Chair: Panos Tzieropoulos**

Carolina Osorio (EPFL, TRANSP-OR): A simulation optimization framework for the management of congested urban road networks

Rashid Waraich (ETH, IVT): Performance Improvements for Large Scale Traffic Simulation in MATSim

Gunnar Flötteröd (EPFL, TRANSP-OR): Cadyts – a free calibration tool for dynamic traffic simulations

Minh-Hai Pham, Edward Chung, A.-G. Dumont (EPFL, LAVOC): Methodology for traffic risks identification

**Session 2 (Balint)**

**Transport Management Systems**

**Chair: Kay W. Axhausen**

Guillaume de Tilière, Marc Laperrouza (BG Consulting Engineers, Swiss Federal Institute of Technology): Developing and deploying innovative technologies in a liberalized European railway system

Niklaus Eggenberg, Lavanya Marla (EPFL, TRANSP-OR, Civil and Environmental Engineering, Massachusetts Institute of Technology): Congestion in a competitive world: a study of the impact of competition on airline operations

Ashish Bhaskar, Edward Chung, André-Gilles Dumont (EPFL, LAVOC): Integrating cumulative plots and probe vehicle for travel time estimation on signalized urban network

10:30 Coffee

11:00

Auditorium

**Keynote speech by Keynote Prof. Susan Hanson**

*Gender and Mobility: Lessons for Sustainability*

Chair: Christian Laesser

12:00

Lunch

## 9th STRC Swiss Transport Research Conference: Program of Thursday, September 10th, 2009

13:30-15:00 <i>Slot C</i>	<b>Session 1 (Auditorium)</b> <b>Infrastructure Technology I</b> <b>Chair: André-Gilles Dumont</b>	<b>Session 2 (Balint)</b> <b>Infrastructure Technology II</b> <b>Chair: Michel Bierlaire</b>
	<p>Marine Vidaud, Willem-Jan Zwanenburg (EPFL, LITEP): Current situation on rolling contact fatigue – a rail wear phenomena</p> <p>Chiara Paderno (EPFL, LAVOC): Simulation of ballast behaviour under traffic and tamping process</p> <p>Nicolas Latuske (ETH, IVT): Influence of modern in-vehicle information systems on road safety requirements</p>	<p>Daniel Emery (EPFL, LITEP): Reducing the headway on high-speed lines</p> <p>Jean-Daniel Buri, Panos Tzieropoulos (EPFL, LITEP): Increasing line capacity with constant infrastructure</p> <p>Gerko Santel, Nicole Leemann (ETH, IVT): Two-lane roundabouts</p>
15:00	Coffee	
15.30-17:30 <i>Slot D</i>	<b>Session 1 (Auditorium)</b> <b>Urban Planning and Sociology</b> <b>Chair: Rico Maggi</b>	<b>Session 2 (Balint)</b> <b>Travel Behaviour</b> <b>Chair: Christian Laesser</b>
	<p>Dennis Gut (Dortmund University): Employment suburbanisation and commuter traffic in German city regions</p> <p>Veronika Killer (ETH, IVT): The dynamics of commuting linkage and overlaps within polycentric regions</p> <p>Matthias Kowald (ETH, IVT): Collecting data on leisure travel: The link between leisure acquaintances and social interactions</p> <p>Sonia Lavadinho (EPFL, TRANP-OR): The multimodal walker. Potentials for combining walking and public transport at the agglomeration scale</p>	<p>Thomas Robin, Michel Bierlaire, Javier Cruz (EPFL, TRANP-OR): Dynamic facial expression recognition using a behavioural model</p> <p>Claude Weis (ETH, IVT): Models of mode choice and mobility tool ownership beyond 2008 fuel prices</p> <p>Alex Erath (ETH, IVT): Mobility Costs and Residence Location Choice</p>
18:00	Meeting of the STRC board	
19:00	Julian Randall (National Contact Point (NCP) Energy & Transport): Work with the best people in Europe: FP7 funding for the Swiss Transport researcher	
19.15	Apéritif sponsored by Canton Ticino	
20:00	Conference Dinner	

## 9th STRC Swiss Transport Research Conference: Program of Friday, September 11th, 2009

07:30 Breakfast

08:30-10:30 <i>Slot E</i>	<b>Session 1 (Auditorium)</b> <b><i>Modelling and Methodology I</i></b> <b>Chair: Kay. W. Axhausen</b>	<b>Session 2 (Balint)</b> <b><i>Modelling and Methodology II</i></b> <b>Chair: Michel Bierlaire</b>	<b>Session 3 (Eranos)</b> <b><i>Business issues</i></b> <b>Chair: Christian Laesser</b>
	Panos Tzieropoulos, Daniel Emery (EPFL, LITEP): How regular is a regular-interval timetable? Theoretical foundations and assessment methodology	Matteo Salani, Ilaria Vacca (EPFL, TRANSP-OR): The vehicle routing problem with discrete split delivery and time windows	Reto Tanner (Berne University): The determinants of energy demand of the swiss private transportation sector
	David Tron, Panos Tzieropoulos (EPFL, LITEP): How regular is a regular-interval timetable? An operational tool to assess regularity	Johan W. Joubert (ETH, IVT): Inferring commercial vehicle activities from GPS data	Manuel Bouza, Silvia Ulli-Ber, Philipp Dietrich, Alexander Wokaun (Paul Scherrer Institute): Comparison of possible transformation processes in the automobile industry
	Matthias Feil (ETH, IVT): Generating complete all-day schedules in MATSim	Nikolas Geroliminis (EPFL, INTER): Queue spillovers in city street networks with signal-controlled intersections	Albert Steiner, Michel Philipp (ZHAW, IDP): Speeding up the airplane boarding process by using pre-boarding areas
	David Charypar (ETH, IVT): Agent-Based Continuous Replanning: Concept and Challenges	Christoph Dobler (ETH, IVT): Simulation of information oriented knowledge models	Konrad Meister (ETH, IVT): Time and mode choice optimization in a multi-agent transport simulation

10:30 Coffee

Auditorium  
**11:00 Keynote speech by Prof. Peter Nijkamp**  
*Mobile Telephone Data and Traffic Management: Exploratory Research*  
 Chair: Rico Maggi

**12:15 Conclusion, farewell note, conference closing by Prof. Rico Maggi**

12.45, 13.00 Bus transfer from Monte Verità to Locarno SBB