

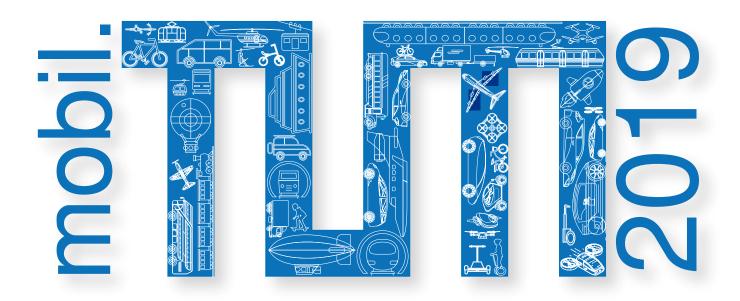
mobil.TUM 2019

International Scientific Conference on Mobility and Transport

Transportation Systems of the Future

September 11th - 12th, 2019 Arcisstraße 21, 80333 Munich, Germany

Rooms 0606 and 0670 (at Building 0506/Theresianeum on Theresienstraße)



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the mind of movement



1^{st} conference day – Wednesday, September 11, 2019

08:00 - 09:00		Registration & Welcome Coffee						
	Opening session, Keynote Presentations (Room 0606)							
09:00 - 10:50	Prof. Dr. Hans van Lint (TU Delft), Dr. Markus May (Airbus)							
10:50 - 11:20		Coffee Break						
11:20 - 13:00		1A Urban Air Mobility (Room 0606)						
	6061	Analysis of Urban Air Mobility's Transport Performance in Munich Metropolitan Region Raoul Rothfeld Rothfeld, Mengying Fu, Constantinos Antoniou						
	6065	Identifying the factors affecting the use and adoption of urban air mobility Christelle Al Haddad, Emmanouil Chaniotakis, Anna Straubinger, Kay Plötner, Constantinos Antoniou						
	6187	Modeling Induced Demand by Urban Air Mobility Ana Tsui Moreno, Carlos Llorca Garcia, Rolf Moeckel, Constantinos Antoniou						
	6101	Identification of Strategies How Urban Air Mobility Can Improve Existing Public Transport Networks Anna Straubinger, Mengying Fu						
		1B Network Modeling I (Room 0670)						
	6064	Evaluation of multiple optimisation techniques for the identification of tours within multi-period ODs Theocharis Ballis, Loukas Dimitriou						
	6073	Evaluation of Floating Car Data quality for traffic congestion analysis on motorways Bartosz Bursa, Wolfgang Blumthaler, Markus Mailer						
	6078	An Improved Structural Equations System for Lane-mean Speeds Prediction and Modeling the Endogeneity of Adjacent Lane Speeds Qinglong Lu						
	6109	Dynamic network loading based on link travel times Omar Mansour, Tomer Toledo						
	6113	Automatic calibration of the link fundamental diagram for macroscopic traffic simulation models Sasan Amini, Gabriel Tilg, Ahmet Cagri Tekin, Daniele Tiddi, Fritz Busch						
13:00 - 14:00		Lunch Break						
14:00 - 15:00 15:00 - 17:30		Poster Session						
		2A Shared Mobility (Room 0606)						
	6041	Quantifying the Benefits of Autonomous On-Demand Ride-Pooling: A Simulation Study in Munich, Germany						
		Roman Engelhardt, Florian Dandl, Aledia Bilali, Klaus Bogenberger						
	6058	Ridesourcing for the first/last mile: How do transfer penalties impact travel time savings? Daniel Reck, Kay W. Axhausen						
	6082	The Value of Prepositioning in Smartphone-Based Vanpool Services Under Stochastic Requests and Time-Dependent Travel Times						
	6083	Donghui Li, Constantinos Antoniou, Hai Jiang, Qianyan Xie, Wei Shen, Weijian Han How Scheduling Advances Affect Critical Mass and Fleeting in Smartphone-Based Vanpooling						
	0000	Donghui Li, Constantinos Antoniou, Hai Jiang, Wei Shen, Liang Zhang, Weijian Han						
	6094	Simulating the impact of shared, autonomous vehicles on urban mobility in Milan - A case study for data-driven decision-making						
		Oliver Wohak, Thorsten Sickenberger, Christian Wieseotte, Mathias Hummel						
	6363	System Oriented Evaluation of Infrastructure Variants for New Mobility Concepts in Municipalities Gabriele Harrer-Puchner, Caroline Cerar						
	6431	The Adoption of Shared Mobility in California and Its Impacts on the Use of Other Travel Modes Giovanni Circella, Farzad Alemi, Grant Matson						

15:00 - 17:30



	2B Network Modeling II (Room 0670)
6029	Modeling Individualized Travel Time with a Back Propagation Neural Network
	Qing Tang, Xianbiao Hu
6033	Modelling Cellphone Trace Travel Mode with Neural Networks Using Transit SmartCard and Home Interview Survey Data
	James Vaughan, Ahmadreza Faghih Imani, Bilal Yusuf, Eric Miller
6042	Design of a stated preference survey to model intermodal choice behavior of carsharing users Anna Reiffer
6099	A novel tool to understand travel behavior using Floating Car Data
	Abdallah Abu-Aisha, Ralph Harfouche, Christos Katrakazas, Constantinos Antoniou
6093	The influence of road, vehicle and driver characteristics on the circumstances that cause traffic accidents
	Laura Eboli, Carmen Forciniti, Gabriella Mazzulla
6091	Multi-modal Activity-based Mobility Generation Applied to Microscopic Traffic Simulations
	Lara Codeca, Jérôme Härri
6079	On the empirical parameterisation of a simulation model for platooning on single-lane roads
	Frank Brooks-Tyreman, R. Eddie Wilson

2ND CONFERENCE DAY – THURSDAY, SEPTEMBER 12, 2019

00.00 44.00		24 Now Mobility Concepts (Deem 0606)
09:00 - 11:30		3A New Mobility Concepts (Room 0606)
	6030	E-scooters: Equity, Trip Patterns, and the Necessary Urban Policy Response
		Gabor Debreczeni
	6035	Integration of MaaS into macroscopic demand models
		Martin Snethlage
	6059	Comparative Data Analysis for Quality Assessment of On-Street Parking Information
		Syrus Gomari, Christoph Knoth, Constantinos Antoniou
	6062	Shaping the mobility in university campuses throughout ICT solutions
		Eva Campos Diaz, María Teresa Tormo Lancero, Pedro Valero-Mora, Panagiotis Papantoniou et al.
	6087	Switch or Stay: service-based and goal-based motivators for switching from yearly transit ticket to
		Mobility-as-a-Service (MAAS)
		Rumana Islam Sarker, Jinhee Kim, Sigal Kaplan, Markus Mailer
	6098	How can new forms of Mobility support the urban and regional transition to sustainable mobility?
		Jan Garde, Dirk Wittowsky
	6111	Urby-me, a novel way to use smart phone GPS to gather quantitative and qualitative daily mobility data
		Dominic Villeneuve, Fernando Simas
		3B Public and Intermodal Transport (Room 0670)
	6055	Holistic cost assessment of innovative vehicle drivetrains and infrastructure measures to reduce
		emissions in regional railway
		Florian Mueller, Markus Guerster, Kilian Schmidt, Nikola Obrenovic, Nourelhouda Dougui, Michel Bierlaire
	6036	Impacts of autonomous vehicle deployment on demand for line-based public transport services
		Jonas Hatzenbühler, Erik Jenelius, Oded Cats,
	6040	Performance Evaluation of a V2X Communication System based on IEEE 802.11p for
		Public Transport Priority
		Miao Wang, Michael Schäfer, Robert Hoyer
	6045	A Traveller-centric Approach to Incident Management in Public Transport
		Frederik Bachmann, Antonios Tsakarestos, Andreas Rau
	6049	Designing Intermodal Transportation Systems in Rural Areas
		Nicolas Dirks, Laura Frank, Grit Walther
	6057	Analysis of Methodological Approaches for the Data-Based Mapping of the Service Quality of
		Public Transport
		Teresa Eickels
		Teresa Eloneis



11:30 - 12:00 12:15 12:15 - 13:00 4A Data Collection and Pedestrian Modeling (Room 0606) 6077 Gathering Trajectories and Traffic Metrics from Street Level Video Recordings using curre Deep Learning Algorithms: A Traffic Engineer's View Focused on Cycli Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Gabriel Wilkes, H. Sebastian Buck, Peter Vortisch, Verena Zeic Engant Hospital Barripund Barripundiks, Nikolas Gerolimina Peraskevas Nikolaou, Loukas Dimitriou, Constantinos Anton Peter Depat Note Carolina Cisterna, Giulio Giorgione, Ernesto Cipriani, Francesco Gabriel Reider Gabriel Reider Gabriel Reider Gabriel Reider Gabriel Gabriel Reider Gabriel Gabriel Reider Gabriel Re
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Paraskevas Nikolaou, Loukas Dimitriou, Constantinos Anton
6043 Systematic Assessment of the quasi-dynamic assumption for congested and uncongested networ
Angela Romano, Guido Cantelmo, Francesco Viti, Vittorio Marzano, Fulvio Simon
6103 Measuring spatial intrapersonal variability of road users using Bluetooth d Fiona Crawford, D. P. Watling, R. D. Conn
6121 Perceptions of Equity: A stated Preference Experime
Emmanouil Chaniotakis, Tao Ma, Yousuf Dinar, Paul Pabst, Sodayf Ahadi et
5B Policy and Foresight (Room 0670)
6071 Factors Affecting the Shift to Autonomous Vehicles: A Safety Perspective Survey in Muni Muhammad Kunwar, Christos Katrakazas, Athanasios Theofilatos, Constantinos Anton
6097 Studying the impact of Connectivity and automation in uphill freeway sectio Michail Makridis, Ludovic Leclercq, Biagio Ciuffo, Konstantinos Mat
6115 Scenario evaluation of autonomous and connected transport – identifying datasets, tools and crite based on the state-of-the-art findin Paweł Gora, Constantinos Antoniou, Arkadiusz Drabi
6116 Crowdsourcing the Ethics of Autonomous Vehicles under Constrained Budget and Quality Restrictio
Magdalena Peksa, Klaus Bogenberger, Bipin Indurkh
5966 Future evolution of the car stock in Belgic Laurent France
6028 System Dynamics Simulation of the End-Customer and Raw Materials Market of Electrified Vehicl Jens Niemann, Robert Meyer, Andreas Schlegel, Matthias P
16:30 - 17:30 Closing session, Keynote Video (Room 0606) Dr. Susan Shaheen (UC Berkeley)



mobil.TUM 2019 Programme Overview

	Tuesday September 10		Wednesday September 11		sday nber 12	Friday September 13
09:00		Opening Session		3A New Mobility	3B Public and Intermodal	
 	Pre-Conference	1A	1B	Room 0606	Transport Room 0670	Post-Conference Workshop
 	Workshop	Urban Air Mobility	Network Modeling I	4A Data Collection and Pedestrian Modeling	4B Vehicle sharing	
		Room 0606	Room 0670	Room 0606	Room 0670	
13:00		T			,	
		Poster Session		5A 5B		
 	Technical Visit	2A	2B	Traffic control and	Policy and Foresight	Post-Conference
	to LZR	Shared	Network	road safety		Workshop
I		Mobility	Modeling II	Room 0606	Room 0670	
		Room 0606 Room 0670		Closing Session		
17:30		Soo Din Löwenbi	ner			

- Indicative times / Workshop information on the conference website
- LRZ: Leibniz Supercomputing Centre of the Bavarian Academy of Science and Humanities
- Social Dinner: Löwenbräukeller, Nymphenburger Straße 2 Stiglmaierplatz, 80335 Munich. Time 18.30 onwards

Organizing Committee

Prof. Dr. Constantinos Antoniou (Chair)

- Dr. Christos Katrakazas
- Dr. Athanasios Theofilatos
- Dr. Panagiotis Papantoniou

Christelle Al Haddad

Emmanouil Chaniotakis

Moeid Qurashi

Margit Stötzel

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Poster Session - Wednesday September 11, 2019 14:00 - 15:00

Simulative assessments of energy and space savings due to platooning

Ganesh Sethuraman, Frederik Bachmann

6046 Perception of Information in Public Transport by People with Disabilities: A Singaporean Perspective

Aneel Gill, Henriette Cornet, Vijayalakshmi Balasankar, Fritz Frenkler

6051 Influence of social media on travel behavior of young adults

Inga Anton

Traffic Management: the invisible actor in the MaaS value chain

Laura Coconea, Vassilis Mizaras, Oktay Turetken, Paul Grefen

6054 Urban Logistics - a theoretical perspective on a problem that may exceed economics and engineering

M. Sebastian Huster

6067 A pilot survey for the assessment of the quality of services provided by airlines

Maria Grazia Bellizzi, Laura Eboli, Gabriella Mazzulla

Planning the Driverless City: public-policy perspectives on emerging business models for new transport technologies in Australia

John Stone, David Ashmore, Carey Curtis, Crystal Legacy

6070 Green Time Split Optimization by Dynamic Programming

Tom Bagehorn, Andreas Poschinger

Barriers to cycling: A typology of non-cyclists in Germany

Johannes Mahne-Bieder, Henrike Rau, Monika Popp

6076 User reactions towards differentiated pricing schemes in urban transport - Implications for their implementation

Angela Francke

The innovator's dilemma of the automotive industry: what if?

Stephan Müller

6096 How an unexpected event affects overall driving performance?

Panagiotis Papantoniou, George Yannis, Dimosthenis Pavlou

6102 Simulation-based Evaluation of the Potential of Local Adaptive Traffic Signal Control for Controlling Urban Networks

Ying Xin

6104 Spatiotemporal objective and subjective factors influencing the usage of hybrid bike-sharing systems

David Duran-Rodas, Gebhard Wulfhorst

6105 Blockchain and distributed ledger technologies in automotive use cases

Florian Albert, Lukas Klein

6107 Attitudes of key stakeholders towards sustainable urban mobility: Q methodology approach

Hana Bruhova Foltynova, Eliska Vejchodska, Kristyna Rybnova

6108 Choice of active transport as a factor of built environment and place perception

Nikoleta Krousouloudi

6110 Impacts of Shuttle-based Ride Sharing in Munich

Abhishek Goturkar, Christian Assmann, Aitan Militao, Raiza Soza, Sophia Saportas, Vishal Mahajan

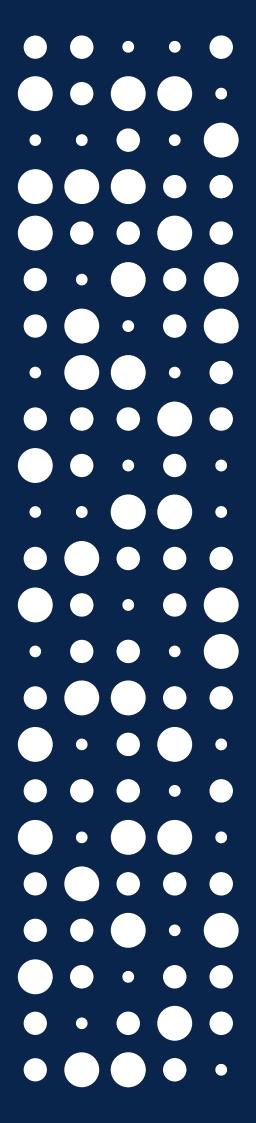
6120 A LUTI application to analyse effects and impacts of a low-traffic zone for the urban agglomeration of Grenoble

Fausto Lo Feudo

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ROOM LOCATION

Arcisstraße 21, 80333 Munich, Germany Rooms 0606 and 0670 (at Building 0506/Theresianeum on Theresienstraße)

