

PhD-projects 2016: The Netherlands Research School for TRANsport, Infrastructure and Logistics

Title Research	PhD	Name	Univ.	Faculty	Dept/C
A. Transport & Mobility					
Program leaders: Chorus, Martens, Timmermans					
Urban Transport, Accessibility, Social Exclusion and Governance in Metroploitan Areas in Indonesia	Andani	Ayu	UT	CTW	CTS
Sustainable Airline Industry and Consumer Behaviour and Preferences	Araghi	Yashar	TUD	TBM	TLO
Activity-Based Travel Demand Modeling under Uncertainty	Charoniti	Eleni	TUE	BK	US&S
The Impact of Time on the Relationship between Travel Behaviour and the Built Environment	Coevering, van de	Paul	TUD	BK	U&RD
The Relationship between Road Safety, Infrastructure and Driving Behaviour on 80 km/h Roads	Duivenvoorden	Kirsten	TUD	ciTG	T&P
An Asset Management Approach for Railway Systems	Fischer	Randy	TUD	TBM	TLO
Analysis of Transportation Mode Between central City and New Towns using Activity-Based Approach	Guo	Jia	TUE	BK	
Coordination in Hinterland Chains	Horst, van der	Martijn	TUD	TBM	EVI
Housing Mobility in Historical Blocks in China	Jiang	Wen	TUE	BK	UP
Success in Major Transport Infrastructure Projects	Jong, de	Mig	TUD	TBM	TLO
Interaction between Urbanization, Infrastructure Development and Public Transport Use: a long-term analysis	Kasraian Moghaddam	Dena	TUD	OTB	U&RD
Matching Public Transport Networks to Land-Use Patterns in Medium-Sized Metropolitan Regions	Kerkman	Kasper	RUN	NSM	GP&M
Uncertainty and Cost-Effecteviness of Policy Measures to Reduce CO2 Emissions from Transport	Kok	Robert	TUD	TBM	TLO
Shared Situational Awareness in Complex Logistic Supply Chains	Kurapati	Shalini	TUD	TBM	MAS
Governance of Networks of Transport and Land-use	Levy	Sara	RUN	NSM	
Consumer Preferences for Electric Vehicles	Liao	Fanchao	TUD	TBM	TLO
Distributed Control of Large-Scale Hybrid Systems	Liu	Shuai	TUD	3ME	DCSC
Effects of Endogenously Triggered Changes on Dynamic Repertoires of Activity Travel Behavior	Psarra	Ifigenia	TUE	BK	UP
Agent-Based Parking Modelling	Tasseron	Geert	RUN	NSM	
Advanced Monitoring of Intelligent Rail Infrastructure	Verbert	Kim	TUD	3ME	DCSC
The Implementation of Advanced Road Pricing Policies	Vonk Noordegraaf	Diana	TUD	TBM	TLO
A New Approach to Transport Modelling by Using Ubiquitos Data: the activity-space model	Yihong	Wang	TUD	ciTG	PDS
B. Infrastructure & Traffic Management					
Program leaders: Hoogendoorn, Van Berkum					
Turbulent Traffic - The Impact of Traffic Turbulence on Safety and Operations	Beinum, van	Aries	TUD	ciTG	T&P
Development of a Methodology to Assess Ports and Waterways on Capacity and Safety	Bellsolà Olba	Xavier	TUD	ciTG	T&P
Travel Behaviour Modelling under Exceptional Conditions, including Information, Guidance and Control	Berg, van den	Mignon	TUD	ciTG	T&P
Robust and Resilient Railway Timetables	Besinovic	Nikola	TUD	ciTG	T&P
STAQ: Static Traffic Assignment with Queuning	Brederode	Luuk	TUD	ciTG	T&P
Probabilistic Modelling of Macroscopic Traffic Flows	Calvert	Simeon	TUD	ciTG	T&P
Large-scale Transportation Infrastructure Planning in the Netherlands: Problems, Causes and Cures	Campanella	Mario	TUD	ciTG	T&P
Reliability and Robustness Analysis for Waterway Networks	Chen	Linying	TUD	ciTG	P&W
Research into Modelling of Crowd Movements during Exceptional Events	Duives	Dorine	TUD	ciTG	T&P
Dynamic Assessment of Multi-modal Transport Systems	Eck, van	Gijs	TUD	ciTG	T&P
Potential of Increasing Road Vehicle Automation for Traffic Management Application	Erp, van	Paul	TUD	ciTG	T&P
Traffic Informtion as a Tool to Bridge the Gap between User Optimum and System Optimum	Essen, van	Mariska	UT	ET	CTS
The Human Factors (User Acceptance/Safety) Side of a Change Assistant System	Gent, van	Paul	TUD	ciTG	T&P
Railway Microscopic Simulation Framework for S&G Study	Ghaemi	Nadjla	TUD	ciTG	T&P
Optimal Multimodal Network Management for Urban Emergencies	Gun, van der	Jeroen	TUD	ciTG	T&P
Network-wide Model-Based Traffic Control for Roadwork on Freeways	Han	Yu	TUD	ciTG	T&P
Designing and Managing the Transfer Function of Train Stations	Heuvel, van den	Jeroen	TUD	ciTG	T&P
EMPOWER People to Reduce Car Traffic	Huang	Bingyuan	UT	ET	CE
Mulit-Level Predictive Traffic control for Large -Scale Urban Networks	Jamshidnejad	Anahita	TUD	3ME	DCSC

Travel Behaviour and Traffic Operations in Case of Exceptional Events	Joueiai	Mahtab	TUD	CiTG	T&P
Crowd Behaviour under Exceptional Conditions	Kinkel	Erica	TUD	CiTG	T&P
Naturalistic Driving Observation to Study Navigation Support Safety and Efficiency	Knapper	Allert	TUD	TBM	TLO
Automtic Multiscale Graph Generation from Geographical Data	Krishnakumari	Panchamy	TUD	CiTG	T&P
Design of Network Wide Traffic Management System	Landman	Ramon	TUD	CiTG	T&P
Airline/ATM Network Performance and Optimization	Li	Yalin	TUD	L&R	C&O
Demand Forecasting and Operational Strategies for Automated Taxis	Liang	Xiao	TUD	CiTG	T&P
Setting Criteria for Safe Driving Behaviour on the Road	Loon, van	Roald	UT	CTW	
Multi-agent Control of Urban Rail Transit Vehicles	Luo	Renshi	TUD	3ME	DCSC
Pedestrian and Public Transport	Ma	Xiaochen	TUD	CITG	T&P
Connected Driver Assitance and Traffic Management	Mahajan	Niharika	TUD	CiTG	T&P
The Vulnerability of the Road Network in Dike Ring Area's during Mass-Evacuation Due to High Water. For Preventive and Immediate Evacuation	Mevisse	Sjoerd	UT	CTW	
Impacts of Automated Driving on Traffic Flow	Mullakkal Babu	Freddy	TUD	CiTG	T&P
Dynamics in Mode Choice Behavior	Olde Kalter	Marie-José	UT	ET	CTS
Line Plan Evaluation and Timetabling	Polinder	Gert-Jaap	EUR	RSM	T&P
Energy-Efficient Timetable Design	Scheepmaker	Gerben	TUD	CiTG	T&P
Maritime Traffic Model for Increased Safety and Capacity of Ports and Waterways	Shu	Yaqing	TUD	CiTG	T&P
Transport Pricing: a Multi-Modal Dynamic Network Perspective	Smits	Erik-Sander	TUD	CiTG	T&P
Capacity Management and Reliable Transport Chains	Sparing	Daniel	TUD	CiTG	T&P
Multi-Agent Game Theoretic Approaches for Service Contracting in Railway Operations	Su	Zhou	TUD	3ME	DCSC
A Multimodal Multi-Scale Traffic Model	Tamminga	Guus	TUD	CiTG	T&P
Modelling Route Choice and Activity Scheduling for Active Modes	Ton	Danique	TUD	CiTG	T&P
Human Factors of Automated Driving: predicting real-world effects of automated driving	Varotto	Silvia	TUD	CiTG	T&P
Modeling and Development of Energy-efficient Train Driver Advisory Systems	Wang	Pengling	TUD	CiTG	T&P
Robust, Optimal, Predictive, and Integrated Urban Traffic Control	Weg, van de	Goof	TUD	CiTG	T&P
Urban Parking Management in the times of Shared (Automated) Mobility	Winter	Konstanze	TUD	CiTG	T&P
Using Cooperative ACC to form High-performance Vehicle Streams	Xiao	Lin	TUD	CiTG	T&P
The Design of High-Speed Railway Passenger Service Plans from a Multimodal Transport Perspective	Yan	Fei	TUD	CiTG	T&P
Lane-Specific Traffic Control	Yao	Shengyue	TUD	CITG	T&P
Integrated Anticipatory Control of Regional Networks	Yuan	Kai	TUD	CiTG	T&P
Driver Behavior in the Transotion of Control between Manual and Automated Driving	Zhang	Bo	UT	CTW	CTS
Nautical Traffic Modelling for Safe and Efficient Ports	Zhou	Yang	TUD	CiTG	T&P
Theory and Modelling of Acquiring, Processing and Storing Spatial Knowledge	Zomer	Lara-Britt	TUD	CiTG	T&P

C. Logistics and Transport Organisation

Program leaders: Lodewijks, De Koster, Tavasszy

Intelligent Monitoring of Railway Equipment	Alemi	Alireza	TUD	3ME	TE&L
Analysis of Autonomous Vehicle Storage and Retrieval Systems (AVSRS)	Azadeh	Kaveh	EUR	RSM	T&OM
Revenue Management and complexity in Public Transport	Bouman	Paul	EUR	RSM	DIS
Wear Reduction of Transportation Equipment Using Bionic Design and Discrete Element Method	Chen	Guangming	TUD	3ME	TE&L
Development of Dutch Biomass Infrastructure	Dafnomilis	Ioannis	TUD	3ME	TE&L
Modeling Dust Origination by Discrete element Method and Computational Fluid Dynamics	Derakshani	Sayed	TUD	3ME	M&TT
Multi-channel Inventory Control	Dijkstra	Arjan	RUG	FEB	OPER
Information Integration for Intelligent Control of Logistics and Transport Systems	Feng	Fan	TUD	3ME	TE&L
Stochastic Models for Warehousing Systemt	Gaast, van der	Jelmer	EUR	RSM	MT&I
Modeling Global-Freight Logistics System	Halim	Ronald	TUD	TBM	TLO
Inventory Control and Logistics for Rental Systems	Heide, van der	Gerlach	RUG	FEB	OPER
Modelling and Optimization on Local Traffic Networks	Hu	Yu	TUD	3ME	DCSC
Study and Optimization of the Interface between Railway Network, Container Ports/Mainports and Freight Bundling Facilities	Hu	Qu	TUD	3ME	TE&L

Maintenance Planning and Maintenance Optimization	Jonge, de	Bram	RUG	FEB	OPER
Integrated Synchromodal Transport System Analysis	Khakdaman	Masoud	TUD	TBM	TLO
Multi-Level and Multi-Agent Control of Intelligent Infrastructures	Li	Le	TUD	3ME	DCSC
Multi-Agent Technology for Container Barge Transport Network	Li	Shijie	TUD	3ME	M&TT
Green Port Initiatives and Environmental Fleet Investment	Li	Xishu	EUR	RSM	T&OM
Integration and Modernization of Transportation Systems	Lin	Xiao	TUD	3ME	MT&T
Intelligent Monitoring Diagnosis and Maintenance of Large-Scale Material Conveying Systems	Liu	Xiangwei	TUD	3ME	TE&L
Grab of the Future: Virtual Prototyping of Grabs using Discrete Element Modelling	Lommen	Stef	TUD	3ME	TE&L
Incentives for Renewable Energy	Lopez	Jose Alejandro	RUG	FEB	OPER
The Use of Modern Monitoring Techniques for Trade and Transport Statistics	Ma	Yinyi	EUR	RSM	
Design and Control of Autonomous Vehicle Storage and Retrieval Systems	Mirzaei	Masoud	EUR	RSM	MT&I
Coordinated Maintenance and Logistics Planning for the Process Industries	Olde Keizer	Minou	RUG	FEB	OPER
Decision Making on Distribution Structures and Distribution Centre Locations	Onstein	Sander	TUD	TBM	TLO
Assessing the gain of Sharing Demand Forecast in FMCG Supply Chains	Pennings	Clint	EUR	RSM	D&I
Sustainable Logistics in Fresh Food (SLIFF)	Post	Roel	RUG	FEB	OPER
Simultaneous Management of Transfers on Railway Networks for Passengers and Freight Flows	Qu	Wenhua	TUD	3ME	TE&L
Hinterland Network Transportation of Containers	Riessen, van	Bart	EUR	ESE	EI
Sustainable Logistics in Fresh Food	Rijal	Arpan	EUR	RSM	T&OM
Evaluating Intermodal Freight Transport & Logistics Markets	Saeedi	Hamid	TUD	CI TG	T&P
Dynamic Contracting in Infrastructures	Scharpff	Joris	TUD	EWI	A
Performance Interaction Model	Smolders	Alf	TUD	CI TG	RAILENG
Vehicle Routing Methods for Parcel Delivery	Veenstra	Marjolein	RUG	FEB	OPER
Practice Oriented Algorithmic Disruption Management in Passenger Railway Transport	Wagenaar	Joris	EUR	RSM	DIS
A Framework of Contextual Factors for Sustainable Supply Chain Management Strategy	Wan Ahmad	Karimah	TUD	TBM	TLO
The Design, Planning and Execution of Sustainable Container Transport networks: information as an enabler	Ypsilantis	Panagiotis	EUR	RSM	D&I
Optimal Design of Pipe Conveyor	Zamiralova	Maria	TUD	CI TG	T&P
Multi-Level Control of Large-Scale Logistic Systems	Zeinaly	Yashar	TUD	3ME	DCSC
Multi-Agent Control for Coordination of Intelligent Marine Surface Vessels	Zheng	Huarong	TUD	3ME	M&T