

PhD-projects 2013: The Netherlands Research School for TRANsport, Infrastructure and Logistics

| Title Research | PhD | Name | Univ. | Faculty | Dept/C |
|--|--------------------|-------------|-------|---------|--------|
| A. Transport & Mobility | | | | | |
| Program leaders: Chorus (L), Martens, Timmermans | | | | | |
| Methodology for the Development of a Long Term Vision (2100) for the Development of the Dutch Inland Water Transport Network | Dorsser, van | Cornelis | TUD | CiTG | WK |
| Modelling the Behavioural Aspects of Supernetworks | Chen | Chao | TUD | TBM | TLO |
| Value Capturing for Transportation Infrastructure Development | Samsura | Datu Ary | RUN | NSM | SP |
| The Implementation of Advanced Road Pricing Policies | Vonk Noordegraaf | Diana | TUD | TBM | TLO |
| Effets of Pricing Strategies on Dynamic Repertoires of Activity-Travel Behaviour | Khademi | Elaheh | Tue | BK | |
| Agent-based Parking Modelling | Tasseron | Geert | RUN | NSM | |
| Effects of Endogenously Triggered Changes on Dynamic Repertoires of Activity Travel Behavior | Psarra | Ifigenia | TUE | BK | UP |
| Urban Networks, Cooperative Systems | Vreeswijk | Jaap | UT | CTW | CT |
| The Relationship between Road Safety, Infrastructure and Driving Behaviour on 80 km/h Roads | Duivenvoorden | Kirsten | TUD | CiTG | T&P |
| Coordination in Hinterland Chains | Horst, van der | Martijn | TUD | TBM | Evi |
| Success in Major Transport Infrastructure Projects | Jong, de | Mig | TUD | TBM | TLO |
| Sustainable Multimodal Freight Transport Network in the Randstad | Zhang | Mo | TUD | OTB | |
| Decentralised and Coordinated Traffic Light Control | Davarynejad | Mohsen | TUD | TBM | ICT |
| The Public Perception of Hydrogen | Huijts | Nicole | TUD | TBM | TLO |
| Substantive Improvement of Cost-benefit Analysis for Large Infrastructure Projects | Mouter | Niek | TUD | TBM | TLO |
| Implementation of Road Pricing | Ardic | Ozgul | TUD | TBM | TLO |
| An Asset Management Approach for Railway Systems | Fischer | Randy | TUD | TBM | TLO |
| Uncertainty and Cost-Effectiveness of Policy Measures to Reduce CO2 Emissions from Transport | Kok | Robert | TUD | TBM | TLO |
| Modeling the Accessibility-effects of Travel Information | Lu | Ruihua | TUD | TBM | TLO |
| The Value of Recreation in the Context of Structural Changes in Travel Choice Situations | Cranenburgh, van | Sander | TUD | TBM | TLO |
| Governance of Networks of Transport and Land-use | Levy | Sara | RUN | NSM | |
| Shared Situational Awareness in Complex Logistic Supply Chains | Kurapati | Shalini | TUD | TBM | MAS |
| The Uncertainty Enabled Model Web (UncertWeb) | Rasouli | Soora | Tue | BK | |
| The Influence of Early Adopters on Diffusion of Eco-Innovations | Sierzchula | William | TUD | TBM | TLO |
| Sustainable Airline Industry and Consumer Behaviour and Preferences | Araghi | Yashar | TUD | TBM | TLO |
| Intelligent Road Traffic Network Control | Wang | Yubin | TUD | TBM | ICT |
| Advanced Monitoring of Intelligent Rail Infrastructure | Verbert | Kim | TUD | 3ME | DCSC |
| Distributed Control of Large-Scale Hybrid Systems | Liu | Shuai | TUD | 3ME | DCSC |
| Interaction between Urbanization, infrastructure Development and Public Transport Use: a long-term analysis | Kasraian Moghaddam | Dena | TUD | OTB | U&RD |
| B. Infrastructure & Traffic Management | | | | | |
| Program leaders: Hoogendoorn (L), Van Berkum, Brookhuis | | | | | |
| The Influence of Accessibility on Dutch Residential Choice Behaviour | Blijie | Berry | TUD | CiTG | T&P |
| Bilevel Optimization in Multi-Objective Road Pricing: a co-operative approach | Ohazulike | Anthony | UT | CTW | CT |
| Capacity Management and Reliable Transport Chains | Sparing | Daniel | TUD | CiTG | T&P |
| Transport Pricing: a Multi-Modal Dynamic Network Perspective | Smits | Erik-Sander | TUD | CiTG | T&P |
| Improvement of Traffic Flow efficiency by ADA-CZX Systems using Traffic Flow Simulation | Goni Ros | Bernat | TUD | CiTG | T&P |
| Dynamic Assessment of Multi-modal Transport Systems | Eck, van | Gijs | TUD | CiTG | T&P |
| Analysis and Modelling of Dynamic Network Effects of ICT Use | Moraes Ramos, de | Giselle | TUD | CiTG | T&P |
| A Multimodal Multi-Scale Traffic Model | Tamminga | Guus | TUD | CiTG | T&P |
| Sea Port Competitiveness and Intermodal Barge Network: from a sustainable perspective | Li | Jianli | TUD | OTB | T&I |
| Controlling Urban Sprawl with Consideration of Residents' Travel and Settlement Behavior | Ambarwati | Lasmini | TUD | CiTG | T&P |

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| Travel Behaviour and Traffic Operations in Case of Exceptional Events | Joueiai | Mahtab | TUD | CiTG | T&P |
| Connected Cruise Control | Risto | Malte | UT | CTW | |
| Large-scale Transportation Infrastructure Planning in the Netherlands: Problems, Causes and Cures | Campanella | Mario | TUD | CiTG | T&P |
| Sustainability Perspectives of Cooperative Systems | Wang | Meng | TUD | CiTG | T&P |
| Travel Behaviour Modelling under Exceptional Conditions, including Information, Guidance and Control | Berg, van den | Mignon | TUD | CiTG | T&P |
| Model-Predictive Railway Traffic Management | Kecman | Pavle | TUD | CiTG | T&P |
| Design of Network Wide Traffic Management System | Landman | Ramon | TUD | CiTG | T&P |
| Probabilistic Modelling of Macroscopic Traffic Flows | Calvert | Simeon | 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. | Mevissen | Sjoerd | UT | CTW | |
| Dynamic OD Matrix Estimation for Real Time Decision Support | Djukic | Tamara | TUD | CiTG | T&P |
| Multimodal Multi-objective Network Design using Heuristic Methods | Brands | Ties | UT | CTW | CT |
| In-car Speed and Headway Advice for Optimal Road Use | Schakel | Wouter | TUD | CiTG | T&P |
| Maritime Traffic Model for Increased Safety and Capacity of Ports and Waterways | Shu | Yaqing | TUD | CiTG | T&P |
| Robust and Resilient Railway Timetables | Besinovic | Nikola | TUD | CiTG | T&P |
| Sustainable Mobility with Co-operative Vehicle-infrastrcutire Systems | Hajiahmadi | Mohammadreza | TUD | 3ME | DCSC |
| Multi-agent Control of Urban Rail Transit Vehicles | Luo | Renshi | TUD | 3ME | DCSC |
| The Potential Causes and Effects of Incident Induced Rubbernecking Behaviour on Urban Freeways | Rhadsbudin Shah | Shahreena Melati | TUD | CiTG | T&P |
| Integrated Anticipatory Control of regional Networks | Yuan | Kai | TUD | CiTG | T&P |
| Research into Modelling of Crowd Movements during Exceptional Events | Duives | Dorine | TUD | CiTG | T&P |
| Setting Criteria for Safe Driving Behaviour on the Road | Loon, van | Roald | UT | CTW | |
| Naturalistic Driving Observation to Study Navigation Support Safety and Efficiency | Knapper | Allert | TUD | TBM | TLO |

C. Logistics and Transport Organisation

Program leaders: De Koster (L), Lodewijks, Tavasszy

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|---|----------------|--------------|-----|------|------|
| Assessing the gain of Sharing Demand Forecast in FMCG Supply Chains | Pennings | Clint | EUR | RSM | D&I |
| Model-predictive Railway Traffic Management | Kersbergen | Bart | TUD | 3ME | DCSC |
| Complexity in Public Transport: Passenger Behavior and System Optimization | Hurk, van der | Evelien | EUR | RSM | DIS |
| Models on Logiscitcs Distribution: structure choices in aggregate goods flow | Davydenko | Igor | TUD | TBM | TLO |
| Stochastic Models for Warehousing Systemt | Gaast, van der | Jelmer | EUR | RSM | MT&I |
| Dynamic Contracting in Infrastructures | Scharpff | Joris | TUD | EWI | A |
| A Framework of Contextual Factors for Sustainable Supply Chain Management Strategy | Wan Ahmad | Karimah | TUD | TBM | TLO |
| Passenger Oriented Disruption Management in Railways | Veelenturf | Lucas | EUR | RSM | DIS |
| Optimal Design of Pipe Conveyor | Zamiralova | Maria | TUD | CiTG | T&P |
| Institutional Condition of European Multinational Freight Networks | Zhang | Min | RUN | NSM | SP |
| Sustainable Mobility with Co-operative Vehicle-infrastrcutire Systems | Hajiahmadi | Mohammadreza | TUD | 3ME | DCSC |
| A Situated Multi Agent System for Urban Transportation | Anand | Nilesh | TUD | TBM | TLO |
| Revenue Management and complexity in Public Transport | Bouman | Paul | EUR | RSM | DIS |
| Modeling Global-Freight Logistics System | Halim | Ronald | TUD | TBM | TLO |
| Modeling Dust Origination by Discrete element Method and Computational Fluid Dynamics | Derakshani | Sayed | TUD | 3ME | M&TT |
| Grab of the Future: Virtual Prototyping of Grabs using Discrete Element Modelling | Lommen | Stef | TUD | 3ME | TE&L |
| Design and Operational Control of Dry Bulk Terminals | Vianen, van | Teus | TUD | 3ME | TE&L |
| Multi-Level Control of Large-Scale Logistic Systems | Zeinaly | Yashar | TUD | 3ME | DCSC |
| The Use of Modern Monitoring Techniques for Trade and Transport Statistics | Ma | Yinyi | EUR | RSM | |
| The Design, Planning and Execution of Sustainable Container Transport networks: information as an enabler | Panagiotis | Ypsilantis | EUR | RSM | D&I |
| Modelling and Optimization on Local Traffic Networks | Hu | Yu | TUD | 3ME | DCSC |

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| Intelligent Traffic Control | Cong | Zhe | TUD | 3ME | DCSC |
| Hierarchical and Hybrid Control of Railway Systems | Wang | Yihui | TUD | 3ME | DCSC |
| Evaluating Intermodal Freight Transport & Logistics Markets | Saeedi | Hamid | TUD | CiTG | T&P |
| Wear Reduction of Transportation Equipment Using Bionic Design and Discrete Element Method | Chen | Guangming | TUD | 3ME | TE&L |
| Multi-Agent Control for Coordination of Transport Hubs | Xin | Jianbin | TUD | 3ME | M&TT |
| Optimization of Airport Airside Logistic Operation | Md. Ithnan | Mohd Izuddin | TUD | 3ME | M&TT |
| Multi-Agent Technology for Container Barge Transport Network | Shijie | Li | TUD | 3ME | M&TT |
| Multi-Level and Multi-Agent Control of Intelligent | Li | Le | TUD | 3ME | DCSC |
| Practice Oriented Algorithmic Disruption Management in Passenger Railway Transport | Wagenaar | Joris | EUR | RSM | DIS |
| Multi-Agent Control for Coordination of Intelligent Marine Surface Vessels | Zheng | Huarong | TUD | 3ME | M&T |