Transport Modelling
Department of Management Engineering
Organisational unit: Section

Publications:

Considering built environment and spatial correlation in modelling pedestrian injury severity
Publication: Research - peer-review › Journal article – Annual report year: 2018

Effects of new bus and rail rapid transit systems – an international review
Ingvardson, J. B. & Nielsen, O. A. 2018 In : Transport Reviews. 38, 1, p. 96-116
Publication: Research - peer-review › Journal article – Annual report year: 2018

D-efficient or deficient? A robustness analysis of stated choice experimental designs
Publication: Research - peer-review › Journal article – Annual report year: 2017

The role of intention as mediator between latent effects and behavior: application of a hybrid choice model to study departure time choices
Publication: Research - peer-review › Journal article – Annual report year: 2017

A Bayesian Additive Model for Understanding Public Transport Usage in Special Events
Publication: Research - peer-review › Journal article – Annual report year: 2017

Actual preferences for EV households in Denmark and Sweden
Jensen, A. F., Haustein, S., Cherchi, E. & Thorhauge, M. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

A Joint Route Choice Model for Electric and Conventional Car Users
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Analysing improvements to on-street public transport systems: a mesoscopic model approach
Publication: Research - peer-review › Journal article – Annual report year: 2017

Applying LCA in decision making- the need and the future perspective
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Considering built environment and spatial correlation in modelling pedestrian injury severity
Prato, C. G., Kaplan, S., Patrier, A. & Rasmussen, T. K. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Cyklistuheld – hvilken betydning har vejen, køretøjet og trafikanten
Publication: Research › Conference article – Annual report year: 2017
Delay estimation on a railway-line with smart use of micro-simulation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Demand pattern analysis of taxi trip data for anomalies detection and explanation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Dynamisk vejvalgsmodel for Hovedstadsområdet
Rasmussen, T. K., Paulsen, M. & Brun, B. 2017 In : Trafik & Veje. p. 45-47
Publication: Communication › Journal article – Annual report year: 2017

Effekten af autonome og selvkørende biler på kortere og lang sigt
Christensen, L. 2017 In : Trafik & Veje. 4 p.
Publication: Communication › Journal article – Annual report year: 2017

Empirical analyses of a choice model that captures ordering among attribute values
Mabit, S. L. 2017 In : Journal of Choice Modelling. 25, p. 3-10
Publication: Research - peer-review › Journal article – Annual report year: 2017

Enabling Bus Transit Service Quality Co-Monitoring Through Smartphone-Based Platform
Publication: Research - peer-review › Journal article – Annual report year: 2017

Europæernes rejsevaner belyst igennem Ferie- og Forretningsrejseundersøgelserne
Publication: Research - peer-review › Conference article – Annual report year: 2017

Evaluating the police service quality for handling traffic crash reporting: A combined MCDA and LCA approach
Publication: Research - peer-review › Journal article – Annual report year: 2017

Harnessing big data for estimating the energy consumption and driving range of electric vehicles
Publication: Research - peer-review › Journal article – Annual report year: 2017

How indicative is a self-reported driving behaviour profile of police registered traffic law offences?
Publication: Research - peer-review › Journal article – Annual report year: 2016

Integrated Optimisation for Public Transport System with Joint Schedule- and Frequency-Based Services
Jiang, Y., Eltved, M., Nielsen, O. A. & Rasmussen, T. K. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Integrating environmental impacts into cost-benefit analysis: The value of environmental pollutants
Dong, Y., Manzo, S. & Hauschild, M. Z. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Integrating police reports with geographic information system resources for uncovering multidimensional patterns of pedestrian crashes in Denmark
Prato, C. G., Kaplan, S., Patrier, A. & Rasmussen, T. K. 2017
Investigating the reasons behind the intention to report cycling crashes to the police and hospitals in Denmark

Joint modeling of schedule- and frequency-based services in public transport assignment models

Learning Supervised Topic Models for Classification and Regression from Crowds

Logical Entity Level Sentiment Analysis

Modelling production-consumption flows of goods in Europe: the trade model within Transtools3

Predicting the Potential Market for Electric Vehicles

Probabilistic Modeling and Visualization for Bankruptcy Prediction

Road Safety Annual Report 2017

Road signage comprehension and overload: The role of driving style and need for closure
Bortei-Doku, S., Kaplan, S., Prato, C. G. & Nielsen, O. A. 2017 In : Transportation Research Procedia. 24, p. 442-449

Strategic assessment of capacity consumption in railway networks: Framework and model

Suitability of commercial transport for a shift to electric mobility with Denmark and Germany as use cases
Christensen, L., Klauenberg, J., Kveiborg, O. & Rudolph, C. 2017 In : Research in Transportation Economics. 64, 13 p.

Testing the slope model of scheduling preferences on stated preference data
The forming of truck platoons: How to make it work
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

The Recharging Infrastructure Needs for Long Distance Travel by Electric Vehicles: A Comparison of Battery-Switching and Quick-Charging Stations
Publication: Research - peer-review › Book chapter – Annual report year: 2017

The restricted stochastic user equilibrium with threshold model: Large-scale application and parameter testing
Publication: Research - peer-review › Journal article – Annual report year: 2017

The role of information systems in non-routine transit use of university students: Evidence from Brazil and Denmark
Publication: Research - peer-review › Journal article – Annual report year: 2017

The use of electric vehicles: A case study on adding an electric car to a household
Publication: Research - peer-review › Journal article – Annual report year: 2017

Threshold-based Stochastic User Equilibrium models
Watling, D. P., Rasmussen, T. K., Nielsen, O. A. & Prato, C. G. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Use of Taxi-Trip Data in Analysis of Demand Patterns for Detection and Explanation of Anomalies
Publication: Research - peer-review › Journal article – Annual report year: 2017

Accounting for the Theory of Planned Behaviour in departure time choice
Publication: Research - peer-review › Journal article – Annual report year: 2016

Bounded rational choice behaviour: applications in transport
Jensen, A. F. 2016 In : Transport Reviews. 36, 5, p. 680-681
Publication: Research - peer-review › Literature review – Annual report year: 2016

Mapping Social Media for Transportation Studies
Publication: Research - peer-review › Journal article – Annual report year: 2016

On the need for integrating LCA into decision making
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Mest trafiksikkerhed for pengene
Publication: Communication › Journal article – Annual report year: 2016
Suitability of commercial transport for a shift to electric mobility
Publication: Research - peer-review › Conference article – Annual report year: 2017

The Danish national passenger model – Model specification and results
Publication: Research - peer-review › Journal article – Annual report year: 2016

Uncertainty in Bus Arrival Time Predictions: Treating Heteroscedasticity With a Metamodel Approach
Publication: Research - peer-review › Journal article – Annual report year: 2016

Understanding traffic crash under-reporting: Linking police and medical records to individual and crash characteristics
Publication: Research - peer-review › Journal article – Annual report year: 2016

Using internet search queries to predict human mobility in social events
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

What does the Tourism Demand Survey tell about long distance travel
Christensen, L. & Nielsen, O. A. 2016
Publication: Research - peer-review › Paper – Annual report year: 2017

Robustness indicators and capacity models for railway networks
Publication: Research › Ph.D. thesis – Annual report year: 2016

Projects:

Bedre Uheldsdata
Janstrup, K. H., Møller, M. & Clemmensen, M. B.
01/01/2016 → 01/11/2017
Project

Model til vurdering af infrastruktureffekterpå trafikuheld
Janstrup, K. H., Møller, M. & Pilegaard, N.
01/01/2016 → 31/12/2018
Project

Activities:

Factors contributing to Bicycle accidents in Denmark - a study based on medical records
Møller, M. (Speaker), Janstrup, K. H. (Other)
10 Jan 2018
Activity: Talks and presentations › Conference presentations

Integrated Optimisation for Public Transport System with Joint Schedule- and Frequency-based Services
Jiang, Y. (Speaker)
11 Dec 2017
Activity: Talks and presentations › Conference presentations
Bedre uheldsdata
Janstrup, K. H. (Other), Møller, M. (Speaker), Clemmensen, M. B. (Other)
6 Dec 2017 → 7 Dec 2017
Activity: Talks and presentations › Conference presentations

Vejens skadespoint og trafiksikkerhed - Er der behøv for et nyt skadespoint, som kan benyttes som trafiksikkerhedsindikator?
Janstrup, K. H. (Speaker), Møller, M. (Other), Pilegaard, N. (Other)
6 Dec 2017 → 7 Dec 2017
Activity: Talks and presentations › Conference presentations

Accident Analysis & Prevention (Journal)
Janstrup, K. H. (Reviewer)
15 Nov 2017 → …
Activity: Research › Peer review of manuscripts

Asfaltindustriens valgmøde i Aarhus
Janstrup, K. H. (Invited speaker)
7 Nov 2017
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Asfaltindustriens valgmøde i Guldborgsund
Janstrup, K. H. (Invited speaker)
1 Nov 2017
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Asfaltindustriens valgmøde i Køge
Janstrup, K. H. (Invited speaker)
26 Oct 2017
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Asfaltindustriens valgmøde i Odense
Janstrup, K. H. (Invited speaker)
25 Oct 2017
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Bus and Passenger Simulation within a Combined Agent-Based Multi-Modal Assignment Model
Paulsen, M. (Speaker)
16 Sep 2017
Activity: Talks and presentations › Conference presentations

hEART 2017: 6th Symposium of the European Association for Research in Transportation
Paulsen, M. (Participant)
12 Sep 2017 → 14 Sep 2017
Activity: Attending an event › Participating in or organising a conference

MATSim User Meeting: Special Session @ hEART 2017
Paulsen, M. (Participant)
11 Sep 2017
Activity: Attending an event › Participating in or organising a conference

Cyklistuheld – hvilken betydning har vejen, køretøjet og trafikanten
Janstrup, K. H. (Speaker), Møller, M. (Other), Pilegaard, N. (Other)
28 Aug 2017 → 29 Aug 2017
Activity: Talks and presentations › Conference presentations
Integrating environmental impacts into cost-benefit analysis - The value of environmental pollutants
Dong, Y. (Speaker), Manzo, S. (Other), Hauschild, M. Z. (Other)
26 Jun 2017
Activity: Talks and presentations › Conference presentations

Integrating environmental impacts into cost-benefit analysis - The value of environmental pollutants
Dong, Y. (Guest lecturer), Manzo, S. (Guest lecturer), Hauschild, M. Z. (Guest lecturer)
25 Jun 2017 → 29 Jun 2017
Activity: Talks and presentations › Conference presentations

Samfundsekonomiske konsekvenser af trafiksikkerhed
Janstrup, K. H. (Invited speaker)
14 Jun 2017
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Trafiksikkerhed som grundlag for bedre prioritering af vejvedligehold
Janstrup, K. H. (Invited speaker)
12 Jun 2017 → 13 Jun 2017
Activity: Talks and presentations › Conference presentations

Ambitiose mål for trafiksikkerhed
Janstrup, K. H. (Speaker)
31 May 2017
Activity: Talks and presentations › Conference presentations

Creating Ideal Railway Traffic in a Multi-Modal Simulation Universe
Paulsen, M. (Speaker)
31 May 2017
Activity: Talks and presentations › Conference presentations

Applying LCA in decision making - the need and the future perspective
Dong, Y. (Speaker), Miraglia, S. (Other), Manzo, S. (Other), Georgiadis, S. (Other), Sørup, H. J. D. (Other), Boriani, E. (Other), Hald, T. (Other), Thøns, S. (Other), Hauschild, M. Z. (Other)
10 May 2017
Activity: Talks and presentations › Conference presentations

Applying LCA in decision making - the need and the future perspective
Dong, Y. (Guest lecturer), Miraglia, S. (Guest lecturer), Manzo, S. (Guest lecturer), Georgiadis, S. (Guest lecturer), Sørup, H. J. D. (Guest lecturer), Boriani, E. (Guest lecturer), Hald, T. (Guest lecturer), Thøns, S. (Guest lecturer), Hauschild, M. Z. (Guest lecturer)
7 May 2017 → 11 May 2017
Activity: Talks and presentations › Conference presentations

Exposure group meeting - Walk21
Janstrup, K. H. (Speaker)
18 Apr 2017
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Sammenhængen mellem vejenes tilstand, ulykker og samfundsøkonomi
Janstrup, K. H. (Invited speaker)
30 Mar 2017
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Subcommity of ABJ10 Long Distance and intercity Travel Joint Subcommity
Christensen, L. (Guest lecturer)
9 Jan 2017
Activity: Talks and presentations › Conference presentations

**Modelling production-consumption flows of goods in Europe: the trade model within Transtools 3**
Gerard de Jong (Speaker), Reto Tanner (Other), Rich, J. (Other), Thorhauge, M. (Other), Nielsen, O. A. (Other), John Bates (Other)
5 Oct 2016
Activity: Talks and presentations › Conference presentations

**A model for freight transport chain choice in Europe**
Jensen, A. F. (Speaker), Thorhauge, M. (Other), Gerard de Jong (Speaker), Rich, J. (Other), Thijs Dekker (Other), Daniel Johnson (Other), Manuel Ojeda Cabral (Other), John Bates (Other), Nielsen, O. A. (Other)
14 Sep 2016 → 16 Sep 2016
Activity: Talks and presentations › Conference presentations

**Synthesis of household based trip diaries**
Thorhauge, M. (Speaker), Rich, J. (Other)
14 Sep 2016
Activity: Talks and presentations › Conference presentations

**Workshop on Public Transport Modelling and Analytics**
Paulsen, M. (Participant)
13 Sep 2016
Activity: Attending an event › Participating in or organising a conference

**Udvikling af transportvanedata for husholdninger**
Thorhauge, M. (Speaker), Rich, J. (Other)
23 Aug 2016
Activity: Talks and presentations › Conference presentations

**Kick Off for Transport DTU**
Paulsen, M. (Participant)
1 Jun 2016
Activity: Attending an event › Participating in or organising a conference

**4th symposium arranged by European Association for Research in Transportation**
Paulsen, M. (Participant)
9 Sep 2015 → 11 Sep 2015
Activity: Attending an event › Participating in or organising a conference

**SafeTREC-UCTC Seminar: Departure time choice modeling**
Thorhauge, M. (Speaker)
7 Feb 2014
Activity: Talks and presentations › Conference presentations

**hEART2013 2nd Symposium of the European Association for Research in Transportation**
Paulsen, M. (Participant)
4 Sep 2013 → 6 Sep 2013
Activity: Attending an event › Participating in or organising a conference

**Samfundsøkonomiske fordele i køreplaner ved hjælp af passagerforsinkelsesmodeller**
Thorhauge, M. (Speaker)
9 May 2012
Activity: Talks and presentations › Conference presentations
Prizes:

**DTU’s Young Researcher Award**  
Kira Hyldekær Janstrup (Recipient), 30 Sep 2016  
Prize: Prizes, scholarships, distinctions

**INFORMS Railway Application Section 2016 Student Paper Award - Second Place**  
Fabrizio Cerreto (Recipient), Otto Anker Nielsen (Recipient) & Steven Harrod (Recipient), 13 Nov 2016  
Prize: Prizes, scholarships, distinctions

**Prof. P.H. Bendtsens Transport Research Award**  
Mikkel Thorhauge (Recipient), 22 Aug 2016  
Prize: Prizes, scholarships, distinctions

**Third best paper and presentation at ECTRI-FERSI Young Researchers Seminar**  
Kira Hyldekær Janstrup (Recipient), 7 Jun 2013  
Prize: Prizes, scholarships, distinctions

Press clippings:

**Dårlige veje i Odense kommune kan betyde flere uheld**  
Kira Hyldekær Janstrup  
25/10/2017  
1 media contribution  
Press / Media