Otto Anker Nielsen - DTU Orbit (12/07/2017)

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Department of Management Engineering - Professor

Transport DTU

Transport Modelling

Publications:

**Analysing improvements to on-street public transport systems: a mesoscopic model approach**


Publication: Research - peer-review › Journal 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

**Dynamic queuing transmission model for dynamic network loading**

Raovic, N., Nielsen, O. A. & Prato, C. G. 2017 In: Transport. 32, 2, p. 146-159

Publication: Research - peer-review › Journal article – Annual report year: 2016

**Effects of new bus and rail rapid transit systems – an international review**


Publication: Research - peer-review › Journal article – Annual report year: 2017

**Home-end and activity-end preferences for access to and egress from train stations in the Copenhagen region**


Publication: Research - peer-review › Journal article – Annual report year: 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

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


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**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

**Causal Analysis of Railway Running Delays**


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<td>Modelling expected train passenger delays on large scale railway networks</td>
<td>Landex, A. &amp; Nielsen, O. A.</td>
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Portzone model for the Øresund Region: forecasting the traffic potential for a new train tunnel between Ellsinore and Helsingborg
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002
The AKTA Road Pricing Experiment in Copenhagen
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

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The Øresund Traffic Forecast Model
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The Øresund transport model
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A microeconomic model for car ownership, resident and work location
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Sørensen, M. V. & Nielsen, O. A. 2001 9th World Conference on Transport Research. Vol. Pre-prints
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

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Centre for Research in Logistics and Freight Transport
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Publication: Communication › Article in proceedings – Annual report year: 2001

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2001
For få forskerstjerner på trafikområdet
Nielsen, O. A. 2001 In : Ingeniøren. p. 18
Publication: Communication › Journal article – Annual report year: 2001

Generalised Transportation-data Format (GTF): Data, Model and Machine Interaction
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Large Scale Model Systems
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Optimisation of timetable-based, stochastic models for travellers’ route choices in public transport
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Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Rule-based, object-oriented modelling of public transport systems: A description of the Transportation Object Platform
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Rule-based, object-oriented modelling of public transport systems
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Publication: Communication › Journal article – Annual report year: 2001

TOP: Experiences, efficiencies and further projects
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A Stochastic Traffic Assignment Model Considering Differences in Passengers Utility Functions

Development of route choice models – from heuristic to theoretical basis: Grant paper for Professor Bendtsens Remembrance Grant for Transport Researchers

Femern-trafik undervurderet

Models as basis for decision-making – Post Femer Belt

Object oriented description of public transport network
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Rule-based Object-Oriented Modelling of Public Transport Systems in Arcinfo 8

The Copenhagen – Ringsted Traffic Model

The Femer Bridge on its way
Validation and test of a stochastic traffic model
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A large-scale stochastic Timetable-based transit assignment model for route and sub-mode choices
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A model for terminal improvements impact on public transport: The EU project MIMIC
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The Copenhagen – Ringsted Traffic Model
Publication: Research › Article in proceedings – Annual report year: 1999

The Copenhagen - Ringsted Traffic Model System: from train simulation to socio-economic evaluation
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

The GIS-T Research Programme - Final Report
Nielsen, O. A. 1999
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Trafikplanlægning og GIS-baserede konsekvensberegninger
Publication: Research › Ph.D. thesis – Annual report year: 1998
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Publication: Research - peer-review › Report – Annual report year: 1998

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Supplementary report,. p. 159-174
Publication: Research › Article in proceedings – Annual report year: 1998

BRIDGES TO GIS – Methodology
Publication: Research › Report – Annual report year: 1998

Deliverable D1 – Baseline Methodology
Nielsen, O. A. 1998
Publication: Research › Report – Annual report year: 1998

Handling of traffic modelling networks in GIS; conflicts, solutions and applications (in Danish)
Supplementary report,. p. 143-158
Publication: Research › Article in proceedings – Annual report year: 1998

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Publication: Research - peer-review › Book chapter – Annual report year: 1997

Estimation af turmatricer ud fra snittællinger - to metoder
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Et ekspertsistem til etablering af krydsdata
Publication: Research - peer-review › Article in proceedings – Annual report year: 1997

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Multi-Path OD-Matrix Estimation (MPME) based on Stochastic User Equilibrium Traffic Assignment
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On the distribution of the stochastic component in SUE traffic assignment models
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Stochastic User Equilibrium Traffic Assignment with Turn-delays in Intersections
Publication: Research - peer-review › Book chapter – Annual report year: 1997

SUE-rutevalgsmodel med krydsmodelling
Publication: Research - peer-review › Article in proceedings – Annual report year: 1997

Trafikmodelberegninger for tunnele under Københavns havn
Publication: Research - peer-review › Article in proceedings – Annual report year: 1997

Using Expert System Rules to establish data on Intersec-tions and Turns in Road Networks
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A better tool for traffic planning
Publication: Research › Journal article – Annual report year: 1996

A discussion of mode choice models
Nielsen, O. A. 1996 Aalborg: AUC.
Publication: Research - peer-review › Book – Annual report year: 1996
Description of travel behaviour in the traffic model - a critical review
Nielsen, O. A. 1996 Copenhagen: NTF.
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Do Stochastic Traffic Assignment Models Consider Differences in Road Users Utility Functions?
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Publication: Research - peer-review › Book – Annual report year: 1996

Improved GIS-based Methods for Traffic Noise Impact Assessment
Nielsen, O. A. & Bloch, K. S. 1996
Publication: Research - peer-review › Book – Annual report year: 1996

New Route Choice Models
Nielsen, O. A. 1996 Aalborg: AUC.
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NTF-Conference on Person Transport Models - Summary, State-of-the-art and Perspectives
Nielsen, O. A. 1996 Copenhagen: NTF.
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Quality Control of traffic models
Nielsen, O. A. & Hansen, C. O. 1996 Copenhagen: NTF.
Publication: Research - peer-review › Book – Annual report year: 1996

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Nielsen, O. A. 1996
Publication: Research - peer-review › Report – Annual report year: 1996

Quarterly report, FU 94-033, First quarter 1996, The GIS-T project
Nielsen, O. A. 1996
Publication: Research - peer-review › Report – Annual report year: 1996

Quarterly report, FU 94-033, Second quarter 1996, The GIS-T project
Nielsen, O. A. 1996
Publication: Research - peer-review › Report – Annual report year: 1996

Quarterly report, FU 94-033, Third quarter 1996, The GIS-T project
Nielsen, O. A. 1996
Publication: Research - peer-review › Report – Annual report year: 1996

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Traffic Models for Municipalities - State-of-the-art and perspectives
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Publication: Research - peer-review › Journal article – Annual report year: 1996

Use of GIS in Traffic Planning and Decision Support (GIS-T)
Nielsen, O. A. 1996 In : International Association for Travel Behaviour Research.
Publication: Research › Journal article – Annual report year: 1996
Projects:

**Mesoscopic Simulation of Multi-Model Urban Traffic**  
Paulsen, M., Nielsen, O. A. & Rasmussen, T. K.  
01/07/2017 → 30/06/2020  
Project: PhD

**The architectural transition between stations and urban spaces, seen from a safety point of view**  
Strandbygaard, S. K., Jensen, L. B., Jørgensen, J. & Nielsen, O. A.  
01/10/2015 → 06/07/2019  
Project: PhD

**Intelligent Composition of Buffer Times in Railway Scheduling**  
Cerreto, F., Nielsen, O. A. & Harrod, S.  
15/12/2014 → 04/01/2018  
Project: PhD

**Attractiveness of Public Transport Systems in a Metropolitan Setting**  
Ingvarsson, J. B., Nielsen, O. A. & Kaplan, S.  
01/10/2014 → 30/09/2017  
Project: PhD

**Assessment and Traffic Modelling of Bottlenecks and Queues in Road Networks**  
Prameswari, N., Nielsen, O. A. & Prato, C. G.  
15/12/2013 → 29/02/2016  
Project: PhD

**Optimization of Rail Operations with regard to Passenger Benefit**  
01/12/2012 → 25/02/2016  
Project: PhD

**Network Effects within Railway Networks**  
01/10/2012 → 07/04/2016  
Project: PhD

**Dynamic Route Choice Models: Representing congestion and queue spillbacks**  
Raovic, N., Nielsen, O. A. & Prato, C. G.  
01/09/2012 → 30/04/2014  
Project: PhD

**Rejseplanen - Next Generation**  
Lins, T. V., Pisinger, D., Nielsen, O. A. & Nielson, H. R.  
15/12/2011 → 14/03/2012  
Project: PhD

**Development Process of “best-in-class” high-speed railway line Copenhagen-Ringsted**  
Trabo, I., Nielsen, O. A., Salling, K. B. & Schneider-Tilli, J. E.  
01/07/2011 → 30/06/2014  
Project: PhD

**Disaggregate activity-based traffic assignment modelling**  
01/05/2011 → 23/02/2015  
Project: PhD
Optimering af kørselsafgifter
Pedersen, T. R., Nielsen, O. A. & Fosgerau, M.
15/12/2010 → 07/10/2015
Project: PhD

The effect of cycling policies
Halldórsdóttir, K., Nielsen, O. A., Prato, C. G., Nielsen, T. A. S., Geurs, K. T. & Shiftan, Y.
15/12/2010 → 25/02/2016
Project: PhD

Uncertainty calculation in Transport forecasts and models
01/09/2010 → 19/12/2014
Project: PhD

Intelligent Road User Charging
Fosgerau, M., Hop, J. Z., Hjorth, K., Nielsen, O. A., Mabit, S. L. & Ranjan, A.
01/01/2010 → 31/12/2015
Project

Kvantitative metoder til vurdering af fremtidige køreplaner
01/02/2008 → 27/01/2014
Project: PhD

Adfærdsmodeller for passagerers rutevalg
01/05/2007 → 25/08/2014
Project: PhD

GNSS-based Road Charging Systems
Zabic, M., Nielsen, O. A., Madsen, O. B., Axhausen, K. W. & Tretvik, T.
01/02/2007 → 22/02/2012
Project: PhD

Trafikmodellering af lange rejser
01/02/2007 → 19/12/2014
Project: PhD

Hurtigere tog i Danmark
Landex, A., Nielsen, O. A. & Sylvan, H.
Project

MOTOS - Transport Modelling: Towards Operational Standards in Europe
Nielsen, O. A.
29/09/2006 → 31/05/2007
Project

Copenhagen Congestion monitoring
Nielsen, O. A.
16/01/2006 → 31/12/2007
Project
Application of passenger matrix estimation methods in the Copenhagen Rail system
Nielsen, O. A. & Landex, A.
16/11/2005 → 31/12/2007
Project

Justering af bilmatriker til Ørestadens Trafikmodel (OTM)
04/11/2005 → 31/03/2006
Project

Scenarios for transport in Denmark – 2030
Nielsen, O. A., Rørbech, J. & Landex, A.
01/10/2005 → 01/07/2006
Project

Traffic Plan for Greenland: Decision Support Tool TGB
06/06/2005 → 31/12/2005
Project

Aggregated roadpricing and speed-calculations
Nielsen, O. A.
01/06/2005 → 01/06/2006
Project

Opdatering af turmatricer og Ørestadens Trafik Model (OTM)
16/03/2005 → 31/10/2005
Project

SPEEDMONITOR2
Nielsen, O. A.
31/01/2005 → 31/12/2005
Project

Vurdering af køreseisafgifter i København
26/11/2004 → 31/07/2005
Project

Marie Currie Joint European transport Research network (JET)
Rich, J., Nielsen, O. A. & Madsen, O. B.
22/09/2004 → 30/04/2006
Project

Trans Tools
Project

Liniebåren trafik
01/07/2004 → 19/12/2008
Project: PhD
En national godtrafikmodel, fase 2
Nielsen, O. A., Overgård, C. H. & Würtz, C. J.
29/06/2004 → 31/05/2005
Project

VIKING ASTRID AKTA
Nielsen, O. A., Overgård, C. H. & Würtz, C. J.
28/05/2004 → 31/12/2004
Project

Modellering af S-tog passagerregul.
Nielsen, O. A. & Landex, A.
10/04/2004 → 30/06/2004
Project

Aktivitetsbaseret trafikmodellering af roadpricing
Mabit, S. L., Nielsen, O. A., Fosgerau, M., Rich, J., Bierlaire, M. & Daly, A.
01/09/2003 → 07/03/2008
Project: PhD

CLG - ph.d. Michael B. Pedersen
Nielsen, O. A.
23/04/2003 → 31/07/2005
Project

Adfærdsmodeller for passageres rutevalg
Jansen, L. N. & Nielsen, O. A.
01/11/2002 → 30/11/2003
Project: PhD

Optimering af multimodale transportsystemer
Pedersen, M. B., Madsen, O. B., Nielsen, O. A., Larsen, J., Christiansen, M. & Tind, J.
01/06/2002 → 09/12/2005
Project: PhD

Centre for Logistics and Freight Transport
Salling, K. B., Jensen, A. V., Sørensen, M. V., Landex, A. & Holvad, T.
25/06/2001 → 31/12/2006
Project

Traffic Dynamic Assignment Modeling for Road Network & Optimization
Jia, M. & Nielsen, O. A.
01/04/2001 → 23/03/2006
Project: PhD

Access modes to public transport.
Nielsen, O. A.
15/09/2000 → 31/08/2004
Project

Strategic models
Nielsen, O. A.
15/09/2000 → 31/08/2004
Project
Value of time in traffic models
Nielsen, O. A.
15/09/2000 → 31/08/2004
Project

Ikke-differentiabel optimering i heltalsprogrammering
Kallehauge, B., Madsen, O. B., Larsen, J., Madsen, K., Nielsen, O. A., Lübbecke, M. & Pisinger, D.
01/08/2000 → 22/05/2006
Project: PhD

PROGRESS/AKTA
Nielsen, O. A., Landex, A. & Würtz, C. J.
08/05/2000 → 31/12/2004
Project

Spotlights
Nielsen, O. A.
03/02/2000 → 30/06/2002
Project

A microeconomic model for car ownership, resident and work location
Rich, J. & Nielsen, O. A.
01/01/2000 → ...
Project

Description and evaluation of Danish Traffic Models and their data foundation
Nielsen, O. A.
01/01/2000 → ...
Project

Development of an evaluation framework for urban transit projects
Nielsen, O. A. & Gissel, S.
01/01/2000 → ...
Project

Modelling access modes to public transport
Nielsen, O. A.
01/01/2000 → ...
Project

Strategic traffic models
Nielsen, O. A.
01/01/2000 → ...
Project

Trafikmodeller for passagertrafik med bane
Sørensen, M. V., Nielsen, O. A., Brundell-Freij, K. & Larsen, O. I.
01/01/2000 → 29/09/2003
Project: PhD

Transport Object Platform (TOP)
Nielsen, O. A.
01/01/2000 → 31/12/2001
Project
Valuation of External costs of Air Pollution
Nielsen, O. A.
01/01/2000 → ...
Project

Value of time in traffic models
Nielsen, O. A.
01/01/2000 → ...
Project

PORTAL
Nielsen, O. A. & Jensen, P.
01/10/1999 → ...
Project

Risikomodeller for jernbanetrafik
Grevy, B., Nielsen, O. A., Petersen, K. & Thyregod, P.
01/10/1999 → 26/03/2001
Project: PhD

SPOTLIGHT
Nielsen, O. A.
01/10/1999 → 01/10/2002
Project

Traffic Models micro-economic foundation
Mortensen, L. H. & Nielsen, O. A.
01/07/1999 → 31/12/1999
Project

Planlægning for samkørsel af behovstyret persontransport ved hjælp af Dial-a-ride metoder
Jørgensen, R. M., Madsen, O. B., Nielsen, O. A., Hasle, G. & Tind, J.
01/03/1999 → 13/10/2003
Project: PhD

Modeller for trafik- og lokaliseringsadfærd
01/10/1998 → 12/12/2001
Project: PhD

The new Habour Tunnel Project
Nielsen, O. A.
01/01/1998 → 31/12/1999
Project

Impacts of railway infrastructure projects
Jørgensen, N. O., Nielsen, O. A. & Hansen, S.
01/10/1997 → 28/02/2001
Project

Metoder i infrastrukturplanlægning med særligt henblik på jernbaner
01/10/1997 → 19/08/2004
Project: PhD
Ph.d. Sten Hansen
Nielsen, O. A.
18/09/1997 → 24/05/2004

Project

EU 4th FP project, Strategic Transport: CODE-TEN
Leleur, S., Moshøj, C. R., Kronbak, J. & Nielsen, O. A.
01/09/1997 → 15/02/2000

Project

Route Choice Models for Car Traffic in the Ørestad Model
Nielsen, O. A., Nielsen, E. R., Israelsen, T. & Simonsen, N.
01/08/1997 → 01/08/1998

Project

The toll ring project
Nielsen, O. A., Nielsen, E. R. & Israelsen, T.
01/05/1997 → 01/09/1997

Project

The Ørestad model
Nielsen, O. A.
24/01/1997 → 01/07/1997

Project

BRIDGES - A GIS-T for accessibility studies at an European level
Nielsen, O. A., Leleur, S., Nielsen, E. R. & Israelsen, T.
01/12/1996 → 01/05/1999

Project

The BASISNET-project; Analyses of different public transportation solutions in Copenhagen (basis networks)
Nielsen, O. A., Nielsen, E. R., Grevy, B. & Israelsen, T.
01/12/1996 → 31/05/1998

Project

GIS-T; Sub-project on traffic models
01/09/1996 → 01/06/1997

Project

The Copenhagen Harbour Tunnel Project
01/09/1996 → 01/03/1997

Project

EU 4th FP project, Strategic Transport: EUNET
Leleur, S., Moshoj, C. R., Kronbak, J., Gissel, S. & Nielsen, O. A.
18/06/1996 → 31/01/2000

Project

Simulation of truck-traffic to the Harbour of Copenhagen
Nielsen, O. A., Nedergaard, K. & Marskell, P.
01/03/1996 → 01/06/1996

Project
GIS-T; Sub-project on methods for quality control of data and model results
02/01/1996 → 01/06/1997
Project

Application of Geographic Information Systems in Traffic Planning with a special emphasis on Decision Support
Moshøj, C. R., Leleur, S. & Nielsen, O. A.
01/05/1995 → 01/05/1998
Project

Traffic models for public transport
Brems, C. R., Nielsen, O. A. & Jørgensen, N. O.
01/05/1995 → 01/07/1999
Project

Trafficmodeller med særlig vægt på kollektiv trafik
01/05/1995 → 22/01/2002
Project: PhD

Trafikplanlægning med særlig vægt på anvendelse af GIS-T til beslutningsstøtte
Moshøj, C. R., Leleur, S., Nielsen, O. A. & Jørgensen, N. O.
01/05/1995 → 08/09/1998
Project: PhD

Noise Impact Analyses based on GIS- and BBR-registers
01/04/1995 → 31/12/1996
Project

Traffic Planning and Impact Analysis based on the use of Geographic Information Systems
Kronbak, J., Leleur, S. & Nielsen, O. A.
01/10/1994 → 01/07/1998
Project

Trafikplanlægning og GIS-baserede konsekvensberegnninger
Kronbak, J., Leleur, S., Nielsen, O. A., Andersen, P. B. & Jørgensen, N. O.
01/10/1994 → 01/10/1998
Project: PhD

Methods for trip matrix estimation
01/09/1994 → 07/12/1997
Project

Probit models for mode choice
01/09/1994 → 01/09/1999
Project
Route Choice Models and Traffic Assignment
01/09/1994 → 01/09/1999
Project

The GIS-T Programme: Use of Geographic Information Systems in Traffic Planning and Decision Support (GIS-T)
01/09/1994 → 01/06/1997
Project

Use of GIS-T for traffic planning in developing countries
Nielsen, O. A., Israelsen, T. & Nielsen, E. R.
01/09/1994 → 01/12/1996
Project

Optimal brug af trafikmodeller- en analyse af regionale persontrafikmodeller med henblik på dataøkonomi og validitet
Nielsen, O. A., Laursen, J. G. & Overgaard, K. R.
01/08/1992 → 20/03/1995
Project: PhD

Activities:

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