Curriculum Vitae

Otto Anker Nielsen, Professor and Chair in Transport Modelling, DTU Transport

Education

Ph.D. in Traffic Models, 1994. Technical University of Denmark (DTU).

M.Sc. in Civil Engineering, 1991. Technical University of Denmark. Specialised in infrastructure and transport. Highest possible mark gained for the Thesis (13).

Professional and Academic Experience

Visiting Professor at TUDelft, 2006-2007

Full Professor at DTU, 2000-

Leader of the transport-modelling group at DTU since 1994. The group has 15 employees, incl. Ph.D.-students. The group has also the responsibility of the area of public transport.

Director of the Interdisciplinary Centre for Logistic and Freight Transport Research (www.clgdk.com), which involves several Danish, and foreign universities and firms. The Centre has a yearly budget of about 6 mio. DKK over a 7 year period, and involves 8 professors, about 15 senior researchers, 8 post.doc and 10 Ph.D. -Studies. 2000-2008.

Manager of Research and Development, ScanRail Consult (now Atkins Denmark Ltd), 1998-2000

1992-1998 Academic career at DTU Transport

1991-1992 Carl Bro Ltd. Development Road Design software

Project management experiences

Project manager for a number of large research, development and applied projects in traffic planning and traffic engineering – mostly with emphasis on traffic models, impact analyses, public transport, road pricing and GIS. The largest project – the development of the Copenhagen Ringsted Model System - had 55 employees in the main consortia. Several projects have been solved by international consortia, among these a number of projects for the European Commission.

International activities

Has participated in a number of EU-projects as Danish team-manager, international leader of work-packages, as well as member of scientific committees for European projects. Has in addition co-operated with researchers from – among others - Sweden, Norway, Switzerland, UK, Germany, Netherlands, USA, Canada, Hong Kong and Indonesia.

Has been visiting professor at University of Montreal and TUDelft (the latter for a one-year period).

Has given lectures in Denmark, Sweden, Norway, Finland, Greenland, England, Scotland, Belgium, Netherlands, Luxemburg, Germany, Czech Republic, Poland, Hungary, Switzerland, France, Spain, Portugal, Italy, Greece, Turkey, USA, Canada, Puerto Rico, Guadeloupe, Chile, Australia, Hong Kong, Korea, Thailand and Indonesia.

Has organised several Nordic and International conferences and is editor on two international books in progress.

Other Professional Activities

Member of scientific committees for international conferences and referee on international ISI journals. Chair of the methodological innovation committee for the European Transport Conference (ETC). Member of the editorial boards of two international ISI journals (Transportation and Transportmetrica). Member of Steering Committees or Scientific Committees for a number of Nordic traffic model projects, EU-research projects in traffic models, and various research projects in other transport related subjects. Many professional duties, among these, several abroad, including opponent on Ph.D.-theses, evaluation committees for professorships, evaluations of applications to research foundations, etc.

Has planned a number of graduate, M.Sc., Ph.D. and supplementary training level courses, and is / has been supervisor for 15 Ph.D.-students, 3 visiting Ph.D.-students, 38 M.Sc. thesis, and 80 graduate students (bachelor thesis and other project reports). Has been involved in the organisation of several Danish and Nordic conferences, and three international conferences.

Chair of the M.Sc. study transport and logistics at DTU 2002-2007 involving several of DTU's departments. The study encompass specialisations in 1) transportation and business logistics, 2) Traffic planning and traffic engineering, and 3) modelling of traffic and transport.

Publications

Thesis

Nielsen, Otto Anker (1994). **Optimal use of passenger traffic models – An analysis regarding data-economy and validity.** Ph.D.-Thesis (written in Danish). Report no. 76, IVTB, DTU. 1994.

Articles in refereed journals

Larsen, M.K. & Nielsen, Otto Anker (2008). Improving and optimising road pricing in Copenhagen. **ICE Transport**, Special Issue August 2008 – Road User Charging. The Institution of Civil Engineers, London.

Gehlert, Tina; Nielsen, Otto Anker; Rich, Jeppe & Schlag, Bernhard (2008=. Public Acceptability Change of Urban Road Pricing. **ICE Transport**, Special Issue August 2008 – Road User Charging. The Institution of Civil Engineers, London.

Nielsen, Otto Anker & Jørgensen, René Munk (2008). Estimation of speed-flow and flow-density relations on the motorway network in the greater Copenhagen region. Accepted for **IET Intelligent Transport Systems.** The Institution of Engineering and Technology, UK.

Nielsen, Otto Anker & Jørgensen, René Munk (2008). Estimation of speed-flow and flow-density relations on the motorway network in the greater Copenhagen region. Accepted for **IET Intelligent Transport Systems.** The Institution of Engineering and Technology, UK.

Rich, Jeppe & Nielsen, Otto Anker (2007). A socio-economic assessment of proposed road user charging schemes in Copenhagen**. Transport Policy**, No 14, pp.330-345, Elsevier

Schönfelder, S., Rich, J. Nielsen, O.A. & Würtz, Christian (2006). Road Pricing and its consequences for individual travel patterns. **Mobilities**, Vol. 2. No. 1. pp. 75-98. Taylor & Francis.

Nielsen, Otto Anker & Frederiksen, Rasmus Dyhr (2006). Optimisation of timetable-based, stochastic transit assignment models based on MSA. **Annals of Operations Research**. Vol. 144, Issue 1 pp 263-285. Kluwer.

Nielsen, Otto Anker (2004). Behavioural responses to pricing schemes: Description of the Danish AKTA experiment. Journal of **Intelligent Transportation Systems.** Vol. 8(4). Pp. 233-251. Taylor & Francis

Rich, Jeppe Husted & Nielsen, Otto Anker (2004). Assessment of Traffic Noise Impacts. **International Journal of Environmental Studies.** Vol. 61(1), pp. 10-29. Taylor & Francis.

Nielsen, Otto Anker; Frederiksen, Rasmus Dyhr & Daly, Andrew (2002). A stochastic multi-class road assignment model with distributed time and cost coefficients. **Networks and spatial economics**. No 2. pp. 327-346. Kluwer.

Nielsen, Otto Anker (2000). A Stochastic Traffic Assignment Model Considering Differences in Passengers Utility Functions. **Transportation Research Part B Methodological**. Vol. 34B, No. 5, pp. 337-402. Elsevier Science Ltd.

Nielsen, Otto Anker; Simonsen, Nikolaj & Frederiksen, Rasmus Dyhr (1998). Using Expert System Rules to establish data on Intersections and Turns in Road Networks. **International Transactions in Operational Research**. Vol. 5, No. 6, pp. 569-581. Pergamon, Elsevier Science Ltd.

Nielsen, Otto Anker; Simonsen, Nikolaj & Frederiksen, Rasmus Dyhr (1998). Stochastic User Equilibrium Traffic Assignment with Turn-delays in Intersections. **International Transactions in Operational Research**. Vol. 5, No. 6, pp. 555-568. Pergamon, Elsevier Science Ltd.

Nielsen, Otto Anker (1995). Using GIS in Denmark for Traffic Planning and Decision Support**. Journal of Advanced Transportation, Special issue on GIS Applications in Transportation Engineering and Planning**. Vol. 29, No. 3, pp 335-354.

Other publications

8 chapters in international books (Springer, Kluwer, Elsevier)

60 papers at international conferences

102 papers at Danish or Scandinavian conferences, Journals or Books