

Curriculum Vitae

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Martijn Rudolf Kornel Mes

Personal details

Name: Martijn Rudolf Kornel Mes
Address: Enschede, The Netherlands
Born: July 20th, 1976 in Dronten, The Netherlands
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Education

2002 - 2008 Ph.D., University of Twente, School of Management and Governance, Department Operational Methods for Production and Logistics, Enschede, The Netherlands.
Ph.D. thesis: *Sequential Auctions for Full Truckload Allocation*
Completed Ph.D. courses: *Research Perspectives on Operational Processes, Research Design and Methodology, Scientific Writing and Editing, Applications to Game Theory, Simulation, Combinatorial Optimization 2, Stochastic Dynamic Programming and the Control of Queues, and Optimization Modeling.*

1995 - 2002 M.S., University of Twente, Faculty of Applied Mathematics, Department Discrete Mathematics and Mathematical Programming, Enschede, The Netherlands.
Master thesis: *Optimal Control of Multi-Echelon Systems*

Working experience

2009 Visiting Fellow at Princeton University, Department of Operations Research & Financial Engineering, part of the School of Engineering and Applied Science. The Netherlands Organization for Scientific Research (NWO) has awarded me a Rubicon grant for doing research at Princeton University. The aim of this research is to study how electronic market places can be used to increase transport efficiency.

2006 - present Assistant professor (before 1/4/2008 a university teacher), University of Twente, School of Management and Governance, Department Operational Methods for Production and Logistics, Enschede, The Netherlands.
Teaching experience: *Simulation (master course), Warehousing (master course), Management of Technology (master course), Supply Chain and Transportation Management (master course), Stochastic Models for Operations Management (bachelor course), Project Processes and Process Control (bachelor project).*

2002 - 2008 Ph.D. student, University of Twente, School of Management and Governance, Department Operational Methods for Production and Logistics, Enschede, The Netherlands. The Ph.D. project is part of the Transumo (TRANSition SUsustainable MObility) research program Diploma (Distributed PLanning Of freight transport networks using Multi-Agent technology).

2001 - 2002 B-SIM, Enschede, The Netherlands. Internship on Supply Chain Integration.

1999 - 2000 Boeken B.V., Enschede, The Netherlands. Development and management of several e-commerce projects.

1996 - 1998	Webspinnerij Twente B.V., Hengelo, The Netherlands. Programmer and graphic designer.
1996	Kienhuis Advocaten & Notarissen, Enschede, The Netherlands. Freelance employee at the ICT department.

Publications, presentations, interviews, and grants

Refereed journal publications:

- M.R.K. Mes, M.C. van der Heijden, and P.C. Schuur (2008). Dynamic threshold policy for delaying and breaking commitments in transportation auctions. *Transportation Research Part C 17(2)*, pp. 208-223.
- M.R.K. Mes, M.C. van der Heijden, and P.C. Schuur (2008). Design choices for agent-based control of AGVs in the dough making process. *Decision Support Systems 44(4)*, pp. 983-999.
- M.R.K. Mes, M.C. van der Heijden, and P.C. Schuur (2008). Look-ahead strategies for dynamic pickup and delivery problems. *To appear in OR Spectrum*, doi:10.1007/s00291-008-0146-3.
- M.R.K. Mes, M.C. van der Heijden, and A. van Harten (2007). Comparison of agent-based scheduling to look-ahead heuristics for real-time transportation problems. *European Journal of Operational Research 181*, pp. 59–75.

Submitted publications:

- M.R.K. Mes, W.B. Powell, and P.I. Frazier (2010). Hierarchical knowledge-gradient for sequential sampling. *Journal of Machine Learning Research*.
- M.R.K. Mes, M.C. van der Heijden, and P.C. Schuur (2010). Intelligent agent strategies for real-time transportation planning. *Computers & Operations Research*.

Selected conference presentations:

- Learning in Approximate Dynamic Programming for Managing a Multi-Attribute Driver. *INFORMS Annual Meeting 2010*, Austin, TX, USA.
- Hierarchical Knowledge Gradient for Sequential Sampling. *INFORMS Annual Meeting 2009*, San Diego, CA, USA.
- Intelligent Agent Strategies for Dynamic Vehicle Routing Problems. *INFORMS Annual Meeting 2008*, Washington, D.C., USA.
- Dynamic threshold policy for delaying and breaking commitments in transportation auctions. *TRISTAN VI*, 2007, Phuket Island, Thailand.
- Pricing and scheduling strategies for agents in sequential transportation auctions. *The Beta Agent Technology Day*, 2007, Eindhoven, The Netherlands.
- Opportunity costs calculation in agent-based vehicle routing and scheduling. *Odysseus 2006*, Altea, Spain.

Interviews and articles in the Dutch press:

- Motion in meel. Interview in *Aandrijven & Besturen*, No. 10, October 22, 2008.
- Coping with uncertainty in transport planning. Interview in CTIT progress report 2007-2008.
- Tricky dat alle kennis in het hoofd van de planner zit. Interview in *Nieuwsblad Transport*, No. 14, April 2, 2008.
- Minder vrachtwagens leeg onderweg dankzij 'agents' met vooruitziende blik. Press release about my PhD research. Several newspaper reports have appeared. For example in *Logistiek.nl* (March 28, 2008), *Automatisering Gids* (March 27, 2008), *Nieuwsblad Transport* (March 27, 2008) and many others.

Grants

- Personal Rubicon grant awarded by NWO to carry out the project "Dynamic fleet management in a competitive environment" at Princeton University, USA, 2009.