Resume Rob Basten, September 5, 2023

Surname	Basten
Given name	Rob
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Website	www.robbasten.eu

Working experience

August 2017 – Now	Associate professor at Eindhoven University of Technology, Department of Industrial Engineering & Innovation Sciences, Group of Operations Planning, Accounting, and Control
June 2022 – August 2021	Visiting scholar at Dartmouth College, Tuck School of Business, Operations and Management Science
October 2014 – July 2017	Assistant professor at Eindhoven University of Technology, Department of Industrial Engineering & Innovation Sciences, Group of Operations Planning, Accounting, and Control
October 2014 – February 2015	Visiting scholar at Rensselaer Polytechnic Institute, School of Engineering, Department of Industrial and Systems Engineering
September 2011 – September 2014	Assistant professor at University of Twente, Faculty of Engineering Technology, Chair of Maintenance Engineering
November 2010 – August 2011	Consultant at Gordian Logistic Experts B.V.: project manager of 'Planning Services'
February 2010 – August 2011	Postdoc at the Eindhoven University of Technology, Department of Industrial Engineering & Innovation Sciences, Group of Operations Planning, Accounting, and Control
Apr. – Dec. 2004	Project assistant at Keypoint Consultancy, Enschede, The Netherlands

Education

October 2005 – January 2010	Ph.D. degree in Operations Management, University of Twente, Department of Operational Methods for Production and Logistics Thesis: Designing logistics support systems. Level of repair analysis and spare parts inventories
September 2008 – January 2009	Visiting PhD student at the University of Texas at Austin, Graduate program in Operations Research & Industrial Engineering
September 2000 – August 2005	M.Sc. degree in Computer Science, University of Twente, Specialization: Human Media Interaction, graduation project at the Deutsches Forschungszentrum für Künstliche Intelligenz, Saarbrücken, Germany
September 1999 – December 2004	M.Sc. degree in Industrial Engineering and Management, University of Twente, Specialization: Finance & Accounting, graduation project at Keypoint Consultancy, Enschede, The Netherlands
December 2003 – March 2004	Internship at Rabobank Nederland Corporate Clients

Grants

- Digital Supply-Chain for On-Site Maintenance by Additive Manufacturing (DISCMAM). Applicant. Main applicant: Lortek S Coop. 3.7 M€, 12/2023 — 11/2026, funded by the European Union through the European Defence Fund (EDF) 2022.
- Robust and Light AM Components for Military Systems (ROLIAC). Applicant. Main applicant: Teknologisk Institut. 4.0 M€, 12/2022 -– 11/2025, funded by the European Union through the European Defence Fund (EDF) 2021.
- Future logistics. Een proeftuin voor high-tech service logistiek. Applicant. Main applicant: DSV Solutions B.V. 2.4 M€, 01/2020 — 12/2022, funded by the European Union through the Operational Programme EFRO 2014-2020 Zuid-Nederland (OPZuid).
- Predictive maintenance for Very effective asset management (PrimaVera). Applicant. Main applicant: prof.dr. Mariëlle Stoelinga (Universiteit Twente). 4.7 M€, 11/2019 – 10/2025, funded by The Netherlands Organisation for Scientific Research (NWO) through the Dutch Research Agenda – Research along routes by Consortia 2019 (NWA-ORC 2019).
- Increasing the usability, adoption, and acceptance of advanced planning and scheduling systems.
  Applicant. Main applicant: dr. Philippe van de Calseyde (Technische Universiteit Eindhoven). 485 k€, 02/2017 – 01/2019, funded by the Top consortium for Knowledge and Innovation (TKI) Dinalog through the TKI Toeslag call.
- Pro-active service logistics for capital goods – the next steps (ProSeLoNext). Main applicant and principal investigator. 2.1 M€, 12/2015 – 05/2020, funded by The Netherlands Organisation for Scientific Research (NWO) through the Accelerator call.
- Sustainability Impact of New Technology on After sales Service supply chains (SINTAS). Applicant. Main applicant: dr. Matthieu van der Heijden (University of Twente). 719 k€, 01/2015 – 12/2019, funded by The Netherlands Organisation for Scientific Research (NWO) through the Sustainable Logistics call.
- Optimizing railway maintenance by advanced data capturing and analysis. Main applicant, together with prof.dr.ir. Tiedo Tinga (Universiteit Twente). 1 M€, funded by Strukton.
- Optimization for Conflicting Performance Requirements of Rail Operation and Maintenance (OCPROM). Main applicant. 657 k€, 01/2013 – 12/2017, funded by The Netherlands Organisation for Scientific Research (NWO) through the Explorail program.

PhD students

- İpek Tanıl. 1 September 2023 – 2027. Additive manufacturing in military supply chains. First promotor. Co-promotor: dr.ir. Loe Schlicher (Eindhoven University of Technology).
- Alireza Yazdani. 1 November 2021 – 2026. Robust decision making. First promotor. Co-promotors: dr. Ahmadreza Marandi & dr. Lijia Tan (Eindhoven University of Technology).
- Maryam Azani. 1 February 2021 – 2025. Interaction between human decision makers and production planning systems. First promotor. Second promotor: prof.dr. Ton de Kok. Co-promotor: dr. Lijia Tan (Eindhoven University of Technology).
- Zhao Kang. 1 September 2020 – 2024. Robust spare parts inventory control. First promotor. Second promotor: prof.dr. Ton de Kok. Co-promotor: dr. Ahmadreza Marandi (Eindhoven University of Technology).
- Bas van Oudenhoven. 1 April 2020 – 2024. Interaction between human decision makers

and maintenance decision support systems. First promotor. Second promotor: prof.dr. Evangelia Demerouti. Co-promotor: dr. Philippe van de Calseyde (Eindhoven University of Technology).
- Ragnar Eggertsson. 1 February 2020 – 2024. Data driven maintenance optimization. First promotor. Second promotor: prof.dr.ir. Geert-Jan van Houtum (Eindhoven University of Technology).
- Douniel Lamghari-Idrissi. 2017 – 7 April 2021. Service differentiation for high tech capital systems. Second promotor. First promotor: prof.dr.ir. Geert-Jan van Houtum (Eindhoven University of Technology).
- Bregje van der Staak. 2016 – 16 March 2021. Improving the use of decision support systems. Second promotor. First promotor: prof.dr. Evangelia Demerouti. Co-promotor: dr. Philippe van de Calseyde (Eindhoven University of Technology).
- Bram Westerweel. 2015 – 14 May 2019. Design and Control of Capital Goods Service Supply Chains with Additive Manufacturing. Co-promotor. Promotor: prof.dr.ir. Geert-Jan van Houtum (Eindhoven University of Technology).
- Wienik Mulder. 2011 – 1 June 2016. Supporting Developers in Addressing Maintenance Aspects. An Empirical Study in the Industrial Equipment Manufacturing Industry. Co-promotor. Promotor: prof.dr.ir. Leo van Dongen (University of Twente).
- Adriaan Goossens. 2011 – 30 September 2015. Maintenance Policy Selection for Ships. An investigation using the Analytic Hierarchy Process. Co-promotor. Promotor: prof.dr.ir. Leo van Dongen (University of Twente).
- Jorge Parada Puig. 2010 – 10 June 2015. Serviceability of Passenger Trains During Acquisition Projects. Co-promotor. Promotor: prof.dr.ir. Leo van Dongen (University of Twente).

PhD committees

- Fedde Zijlstra. 7 June 2022. Inside the learning curve. The Role of Experience, Knowledge, and Performance in Learning from After-Sales Service in the Semiconductor Industry. Promotor: prof.dr. Fred Langerak (Eindhoven University of Technology)
- Heletjé van Staden. 28 June 2021. Decision Making in the Presence of Uncertainty: Industry 4.0 Enabled Preventive Maintenance. Promotor: prof. Robert Boute (KU Leuven).
- Zhou Su. 13 September 2018. Maintenance Optimization for Railway Infrastructure Networks. Promotor: prof.dr.ir. Bart de Schutter (Delft University of Technology).
- Dennis Guck. 23 March 2017. Reliable Systems. Fault Tree Analysis via Markov Reward Automata. Promotor: prof.dr.ir. Joost-Pieter Katoen (University of Twente).
- Kim Verbert. 22 November 2016. Fault Diagnosis and Maintenance Optimization for Interconnected Systems with Applications to Railway and Climate Control Systems. Promotors: prof.dr.ir. Bart de Schutter & prof.dr. Robert Babuška (Delft University of Technology).
- Frank Karsten. 28 November 2013. Resource Pooling Games. Promotor: prof.dr.ir. Geert-Jan van Houtum (Eindhoven University of Technology).

PDEng candidates

- Felipe Ramos Gaete. 2016 – 2018. Condition based maintenance. Daily supervisor.
- Alard Snippe. 2016 – 2018. Condition based maintenance. Daily supervisor.

Published journal articles

- Eggertsson, R., Basten, R.J.I. and Van Houtum, G.J. (2023). Maintenance optimization for capital goods when information is incomplete and environment-dependent. Accepted for publication at *IISE Transactions*.
- Van Oudenhoven, B., Van de Calseyde, P., Basten, R.J.I. and Demerouti, E. (2022). Predictive maintenance for industry 5.0: behavioural inquiries from a work system perspective. *International Journal of Production Research.* Accepted for publication.
- Zhang, Y., Westerweel, B., Basten, R.J.I. and Song, J.-S. (2022). Distributed 3D Printing of Spare Parts via IP Licensing. *Manufacturing & Service Operations Management* 24(5): 2685–2702.
- Lamghari-Idrissi, D., Van Hugten, R., Van Houtum, G.J. and Basten, R.J.I. (2022). Increasing Chip Availability Through a New After-Sales Service Supply Concept at ASML. *INFORMS Journal on Applied Analytics* 52(5): 460-470.
  - Finalist for the 2020 Daniel H. Wagner Prize for Excellence in Operations Research Practice.
- Westerweel, B., Basten, R.J.I., Den Boer, J. and Van Houtum, G.J. (2020). Printing Spare Parts at Remote Locations: Fulfilling the Promise of Additive Manufacturing. *Production and Operations Management.* 30(6): 1615-1632.
  - ISIR Best Student Paper 2018.
- Lamghari-Idrissi, D., Basten, R.J.I. and Van Houtum, G.J. (2021). Reducing risks in spare parts service contracts with a long-down constraint. *IISE Transactions* 53(10): 1067-1080.
- Lamghari-Idrissi, D., Basten, R.J.I. and Van Houtum, G.J. (2020). Spare parts inventory control under a fixed-term contract with a long-down constraint. *International Journal of Production Economics* 219: 123–137.
- Lamghari-Idrissi, D., Basten, R.J.I., Dellaert, N.P. and Van Houtum, G.J. (2020). Which Spare Parts Service Measure to Choose for a Front-end Wafer Fab?. *IEEE Transactions on Semiconductor Manufacturing* 30(4): 504-510.
- Castro, I.T., Basten, R.J.I. and Van Houtum, G.J. (2020). Opportunistic maintenance for heterogeneous complex systems under continuous monitoring. *Reliability Engineering & System Safety* 200.
- Karabag, O., Eruguz, A.S. and Basten, R.J.I. (2020). Integrated Optimization of Maintenance Interventions and Spare Part Selection for a Partially Observable Multi-Component System. *Reliability Engineering & System Safety* 200.
- Ton, B., Basten, R.J.I., Bolte, J., Braaksma, A.J.J., Di Bucchianico, A., Van de Calseyde, P., Grooteman, F., Heskes, T., Jansen, N., Teeuw, W., Tinga, T. and Stoelinga, M. (2020). PrimaVera: Synergising Predictive Maintenance. *Applied Sciences* 10(23): 8348.
- Basten, R.J.I. and Ryan, J.K. (2019). Inventory Management with Two Demand Streams: A Maintenance Application. *European Journal of Operational Research.* 278(2): 646–657.
- Dao, C.D., Basten, R.J.I. and Hartmann, A. (2018). Maintenance scheduling for railway tracks under limited possession time *Journal of Transportation Engineering Part A: Systems* 144(8).
- Westerweel, B., Basten, R.J.I. and Van Houtum, G.J. (2018). Traditional or Additive Manufacturing? Assessing component design options through lifecycle cost analysis. *European Journal of Operational Research* 270(2): 570–585.
- Arts, J.J. and Basten, R.J.I. (2018). Design of multi-component periodic maintenance programs with single-component models. *IISE Transactions* 50(7): 606–615.
- Peeters, J.F.W., Basten, R.J.I. and Tinga. T. (2018). Improving failure analysis efficiency by combining FTA and FMEA in a recursive manner. *Reliability Engineering & System Safety* 172: 36–44.

- Poppe, J., Basten, R.J.I., Boute, R.N. and Lambrecht, M.R. (2016). Numerical study of inventory management under various maintenance policies *Reliability Engineering & System Safety*. 168: 262–273.
- Lin, X., Basten, R.J.I., Kranenburg, A.A., and Van Houtum, G.J. (2012). Condition based spare parts supply. *Reliability Engineering & System Safety*. 168: 240–248.
- Basten, R.J.I. and Arts, J.J. (2017). Fleet readiness: stocking spare parts and high-tech assets. *IIE Transactions*. 49 (4): 429–441.
- Arts, J.J., Basten, R.J.I. and Van Houtum, G.J. (2016). Repairable Stocking and Expediting in a Fluctuating Demand Environment: Optimal Policy and Heuristics. Operations Research. *Operations Research*. 64 (6): 1285–1301.
- Parada Puig, J.E. and Basten, R.J.I. (2015). Defining line replaceable units. *European Journal of Operational Research*. 247 (1): 310–320.
- Goossens, A.J.M. and Basten, R.J.I. (2015). Exploring maintenance policy selection using the Analytic Hierarchy Process; an application for naval ships. *Reliability Engineering & System Safety*. 142: 31–41.
- Basten, R.J.I., Van der Heijden, M.C., Schutten, J.M.J., and Kutanoglu, E. (2015). An approximate approach for the joint problem of level of repair analysis and spare parts stocking. *Annals of Operations Research*. 224 (1): 121–145.
- Wingerden, E. van, Basten, R.J.I., Dekker, R., and Rustenburg, W.D. (2014). More grip on inventory control through improved forecasting. A comparative study at three companies. *International Journal of Production Economics*. 157: 220–237.
- Basten, R.J.I. and Van Houtum, G.J. (2014). System-oriented inventory models for spare parts. *Surveys in Operations Research and Management Science*. 19 (1): 34–55.
- Karsten, F. and Basten, R.J.I. (2014). Pooling of spare parts between multiple users: How to share the benefits?. *European Journal of Operational Research*. 233 (1): 94–104.
- Basten, R.J.I. and Van Houtum, G.J. (2013). Near-optimal heuristics to set base stock levels in a two-echelon distribution network. *International Journal of Production Economics*. 143 (2): 546–552.
- Basten, R.J.I., Van der Heijden, M.C., and Schutten, J.M.J. (2012). Joint optimization of level of repair analysis and spare parts stocks. *European Journal of Operational Research*. 222 (3): 474–483.
- Basten, R.J.I., Van der Heijden, M.C., and Schutten, J.M.J. (2011). Practical extensions to a minimum cost flow model for level of repair analysis. *European Journal of Operational Research*. 211 (2): 333–342.
- Basten, R.J.I., Van der Heijden, M.C., and Schutten, J.M.J. (2011). A minimum cost flow model for level of repair analysis. *International Journal of Production Economics*. 133 (1): 233–242.
- Basten, R.J.I., Schutten, J.M.J. and Van der Heijden, M.C. (2009). An efficient model formulation for level of repair analysis. *Annals of Operations Research*. 172 (1): 119–142.

Submitted journal articles

- Tan, L. and Basten, R.J.I. (2023). Wait and See, or Pay now? How People Decide to Pay a Cost to Avoid a Loss. Second round of review at *Management Science*.
- Van der Haar, J.F., Wellens, A.P., Boute, R.N. and Basten, R.J.i. (2023). Supervised learning for integrated forecasting and inventory control. Second round of review at *European Journal of Operational Research*.
- Eggertsson, R., Eruguz, A.S., Basten, R.J.I. and Maillart, L. (2023). Maintenance Optimization for Multi-Component Systems with a Single Sensor. Submitted for publication.

- Kang, Z., Marandi, A., Basten, R.J.I., and De Kok, A.G. (2023). Robust Spare Parts Inventory Management. Submitted for publcation.
- Tüncel, Ö, Basten, R.J.I. and Becker-Peth, M. (2023). Who Should Bear the Risk? A Theoretical and Behavioral Investigation of After-Sales Service Contracts. Submitted for publication.
- Akkermans, H.A., Basten, R.J.I., Zhu, Q. and Van Wassenhove, L. (2023). Transition Paths for Condition-Based Maintenance-Driven Smart Services Submitted for publication.
- Van der Staak, B., Basten, R.J.I., Van de Calseyde, P.P.F.M., Demerouti, E. and De Kok, A.G. (2020). Some-touch forecasting: A novel method to combine human judgment with statistical algorithms. *Working paper*. Submitted for publication.
- Westerweel, B., Basten, R.J.I. and Van Houtum, G.J. (2019). Preventive maintenance with a 3D printing option. Second round of review at *International Journal of Production Economics*.

Published book chapters

- Basten, R.J.I. and Van Houtum, G.J. (2023). Spare parts inventory planning. In Jing-Sheng Jeannette Song (Ed.): *Research Handbook on Inventory Management*. Northampton, Massachusetts: Edward Elgar.
- Arts, J.J., Basten, R.J.I., and Van Houtum, G.J. (2019). Maintenance service logistics. In Zijm, H., Klumpp, M., Regattieri, A. and Heragu, S. (Eds.): *Operations, Logistics and Supply Chain Management*. Amsterdam, the Netherlands: Springer.

PhD thesis

- Basten, R.J.I. (2010). *Designing logistic support systems. Level of repair analysis and spare parts inventories*. PhD thesis, BETA research school, D128, Eindhoven (The Netherlands).

Courses

- Responsible lecturer for Bachelor course Maintenance & Service Logistics (1CK60; personally graded 3.9, 4.1, 4.2, 4.3, 4.2, 4.0, 4.1, and 4.0 out of 5 in 2015–2016 through 2022–2023; course graded 7.0, 7.4, 7.0, 7.3, 7.5, and 7.8 out of 10 in 2017–2018 through 2022–2023).
- Lecturer for Master course Behavioral Operations Management (1JM40; personally graded 4.6, 4.4, and 3.8 out of 5.0 in 2019–2020, 2021–2022, and 2022–2023; course graded 8.1, 7.9, and 8.0 out of 10 in 2019–2020, 2021–2022, and 2022–2023)
- Responsible lecturer for Bachelor course Fundamentals of Operations Management (1CV00; personally graded 3.7, 3.7, and 3.7 out of 5.0 in 2019–2020, 2021–2022, and 2022–2023; course graded 5.9, 6.3, and 6.7 out of 10 in 2019–2020, 2021–2022, and 2022–2023)
- Lecturer for Bachelor course Quality & Reliability Engineering (1CV40; personally graded 4.0 out of 5 in 2018–2019)
- Supervisor for groups of students in Master course Modeling and Analysis of Manufacturing Systems (1CM10; personally graded 4.1 and 4.5 out of 5 in 2015–2016 and 2017–2018).
- Instructor in Bachelor course Microeconomics (1CK90; personally graded 3.8 out of 5 in 2015–2016).
- Lecturer for a small part of Master course Service Supply Chains for Capital Goods (1CM30; personally graded 3.3 out of 5 in 2014–2015).
- Responsible lecturer for Master course Maintenance Engineering & Management (personally graded 3.7 and 3.9 out of 5 in 2013–2014 and 2014–2015).

Service

- 2023 – now: Chair of the exam committee Industrial Engineering.
- 2022 – now: Member of the steering committee of EU funded project ROLIAC.
- 2020 – now: Member of the steering committee of Fieldlab SAMEN.
- 2020 – 2021: Member of the core team of the Connect/TKI Dinalog/CQM project Service Control Towers.
- 2020 – now: Member of the organizing committee of the Behavioral Operations Conferences.
- 2019: Chair of the organizing committee of the Behavioral Operations Conference 2019 (about 80 attendees).
- 2017 – now: Member of the program committee of the Bachelor Industrial Engineering.
- 2015 – 2017: Initiator and, together with dr. Alberto Martinetti (University of Twente) and Marc Coumans BSc. (Eindhoven University of Technology), organizing committee of the Maintenance Research Day 2016 and 2017 (both times about 70 attendees).
- 2016 – now: Coordinator of the coherent choice package Advanced Operations Management (three courses that Bachelor students can choose).
- 2012 – 2014: Member of the committee that setup the consortium TIME (Twente Is Maintenance Excellence), a collaboration between multiple research groups of the University of Twente, and the Master specialization Maintenance Engineering & Operations of the Master programmes Mechanical Engineering and Industrial Engineering & Management.
- 2012: Vice director of the WCM Summer School 2012 (in further editions involved to a lesser extent, e.g., in the selection committee).
- 2010 – 2012: Member of a national committee that tried to setup a national maintenance Master. We did not succeed, but some other activities result from this (e.g., WCM Summer School).
- Session or stream organizer at various international academic conferences: IIE Annual Conference 2015, Various times at INFORMS, ISIR, and POMS.
- Reviewing:
  - 2023: Associate editor at *Management Science* for the special issue on The Human-Algorithm Connection.
  - 2016: Member of the accreditation committee of the Master of Engineering of the University of Applied Sciences Utrecht.
  - Reviewer of various research proposals (e.g., for the Deutsche Forschungsgemeinschaft, Research Foundation – Flanders, and Erasmus Research Institute of Management).
  - Reviewer at many journals, including the A+ journals *Journal of Operations Management*, *Management Science*, *Manufacturing & Service Operations Management*, *Operations Research*, and *Production and Operations Management*.

Selection of invited presentations

- *Service Supply Chains*. Workshop at the WCM Summer School 2023. Stroe, The Netherlands. 2 August 2023.
- *AM products within the logistic processes*. Workshop at EDA's AM Village Week. Ede, the Netherlands. 14 June 2023.
- *Distributed 3D Printing of Spare Parts via IP Licensing*. Invited seminar at the Tepper School at Carnegie Mellon University. Pittsburgh, PA, USA. 14 October 2022.
- *How to deal with imperfect failure predictions in after-sales services?*. Presentation at the ASML HI Risk management / FMEA seminar. Veldhoven, the Netherlands. 15 September

2022.

- *How 3D printing of spare parts changes supply chains.* Invited seminar at Texas State University. San Marcos, TX, USA. 16 June 2022.
- *Wait and see, or pay now? On how people decide to pay a cost to avoid a loss.* Behavioral Operations Conference 2022. Fayetteville, AR, USA. 14 June 2022.
- *Printing spare parts at remote locations. Fulfilling the promise of additive manufacturing.* European Military Additive Manufacturing Symposium. Bonn, Germany. 13 October 2021.
- *Service Supply Chains.* Workshop at the WCM Summer School 2021. Stroe, The Netherlands. 28 July 2021.
- *Achieving low downtime of high-tech systems with uncertain failure behaviour.* Function 2021. Online. 12 July 2021.
- *Service Supply Chains.* Workshop at the WCM Summer School 2020. Stroe, The Netherlands. 12 August 2020.
- *Service Supply Chains.* Workshop at the WCM Summer School 2019. Stroe, The Netherlands. 31 July 2019.
- *Data science is the key to proactive maintenance.* Invited plenary presentation at the Data Science Summit 2018. Eindhoven, the Netherlands. 27 November 2018.
- *Printing spare parts at remote locations: Fulfilling the promise of additive manufacturing.* Invited seminar at the Luxembourg Centre for Logistics and Supply Chain Management at the University of Luxembourg. Luxembourg, Luxembourg. 21 November 2018.
- *Service Supply Chains.* Workshop at the WCM Summer School 2018. Oirschot, The Netherlands. 18 August 2018.
- *Printing spare parts at remote locations: Fulfilling the promise of additive manufacturing.* Invited presentation in the workshop on 3D Printing for (Re) Manufacturing: Challenges and the Way Ahead. Cardiff, UK. 27 June 2018.
- *Printing spare parts at remote locations: Fulfilling the promise of additive manufacturing.* Invited seminar at the Fuqua School of Business at Duke University. Durham, NC, USA. 28 March 2018.
- *Printing spare parts at remote locations: Fulfilling the promise of additive manufacturing.* Invited seminar at the AM Systems Center. Eindhoven, The Netherlands. 13 September 2017.
- *Service Supply Chains.* Workshop at the WCM Summer School 2017. Breda, The Netherlands. 2 August 2017.
- *On-site additive manufacturing of spare parts.* Invited seminar at the University of Twente. Enschede, The Netherlands. 23 March 2017.
- *Service Supply Chains.* Workshop at the WCM Summer School 2016. Breda, The Netherlands. 4 August 2016.
- *Inventory Management with Two Demand Streams: A Maintenance Application.* Invited seminar at the University of Nebraska-Lincoln. Lincoln, NE, USA. 30 October 2015.
- *Design-for-Maintenance.* Workshop at the WCM Summer School 2015. Breda, The Netherlands. 6 August 2015.
- *On fleet readiness of trains: stocking spare parts and high-tech assets.* Invited seminar at the Rensselaer Polytechnic Institute. Troy, NY, USA. 19 November 2014.
- *On fleet readiness of trains: stocking spare parts and high-tech assets.* Invited seminar at the University of Massachusetts Amherst. Amherst, MA, USA. 27 October 2014.
- *Rolling stock acquisition and maintenance.* Guest lecture in the course Railway Stock Acquisition and Management at the Technical University of Denmark. Lyngby, Denmark. 18 June 2014.

- *Condition based spare parts supply.* Invited seminar at the Zurich University of Applied Sciences - ZHAW. Zürich, Switzerland. 30 April 2014.
- *Design-for-Maintenance.* Workshop at the WCM Summer School 2013. Breda, The Netherlands. 29 August 2013.
- *Chair of Maintenance Engineering. University of Twente.* Lloyd's Register Foundation Research Workshop. Seoul, South Korea. 16 April 2013.
- *Design-for-Maintenance.* Workshop at the WCM Summer School 2012. Breda, The Netherlands. 30 August 2012.
- *LORA and Spare Parts at Thales Nederland*, NGB day LNMB conference. Lunteren, The Netherlands. 20 January 2011
- *Level of repair analysis and spare parts stocking.* Invited seminar at the University of Texas at Austin. Austin, TX, USA. 21 January 2009