Tom Van Woensel

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Short Bio Sketch

I am a **Full Professor in Freight Transport and Logistics** at Eindhoven University of Technology (TU/e) and a **Visiting Professor of Industrial Engineering** at "Ozyeğin University in T"urkiye.
On the **research** side, I collaborate with a team of around 10 Ph.D. and PostDoc students solving real-world logistics challenges, such as vehicle routing, city logistics, and last-mile delivery. We combine Operations Research with AI and machine learning, using companies as "living laboratories" to apply models to industry data. This approach addresses key issues in digitalization and sustainability, yielding both top-tier academic publications and actionable operational solutions.
I serve as the Department's **Director of Education and Graduate Program Director**, overseeing program quality and operations while linking departmental management with central university administration. Additionally, as the university-wide **TU/e Portfolio Lead for AI and Education**, I drive the strategic transformation of our curriculum to adapt to and integrate advancing Artificial Intelligence.
My **managerial activities** cover operational oversight and long-term strategy, holding final responsibility for Bachelor's, Master's, EngD, and Ph.D. programs serving 2,200 students. I lead multiple curriculum chairs and collaborate with large administrative teams to drive ongoing improvements. My leadership experience includes serving on departmental boards, recruitment and promotion committees, and as deputy chair of our research group. At the university level, I work with the TU/e Dean of Education to shape **university-wide policies and visions**, translating major educational redesigns into concrete departmental actions. This profile is supported by extensive leadership in executive education, including roles as Academic Director at TIAS Business School and Director at Antwerp Management School.
Throughout my career, I have demonstrated **strategic leadership in both academic and industry contexts**. By bridging theory and practice, I advance innovative logistics solutions while aligning educational direction with institutional goals to build robust, future-ready programs.

Current Positions

2011 – · · · · **Full Professor of Freight Transport & Logistics,** Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands.

2026 – · · · · **Visiting Professor of Industrial Engineering.** Özyeğin University, Türkiye.

2025 – · · · · **University lead of the TU/e Portfolio AI and Education.** Eindhoven University of Technology, The Netherlands.

2019 – · · · · **Director of Education.** Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands.

Graduate Program Director. Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands.

2017 – · · · · **Director of the European Supply Chain Forum.** Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands.

2006 – · · · · **Member of the Operations, Planning, Accounting and Control Board.** Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands.

2017 – · · · · **Collaborating member.** CIRRELT, Montreal, Canada.

2022 – · · · · **Academic Director Executive Master Operations and Supply Chain Management (MOS).** Tias Business School, Tilburg, The Netherlands.

2024 – · · · · **INFORMS Senior Member.** INFORMS, USA.

Employment History

2013 – 2024 **Academic Director Full-time Executive Master Global Supply Chain Management.** Antwerp Management School, Antwerp, Belgium.

2018 – 2023 **Curriculum Chair B.Sc. Industrial Engineering.** Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands.

2014 – 2017 **Director 4TU.SAI Professional Doctorate in Engineering (PDEng/EngD) Graduate Program Logistics Management Systems.** Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands.

2014 – 2014 **Chair (ad interim) of the Operations, Planning, Accounting and Control Group.** Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands.

2013 – 2014 **Chair of the Exam Committee Industrial Engineering.** Eindhoven University of Technology, The Netherlands.

2011 – 2013 **Member of the Exam Committee Industrial Engineering.** Eindhoven University of Technology, The Netherlands.

2009 – 2012 **Manager Education of the Operations, Planning, Accounting and Control Group.** Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands.

2008 – 2011 **Part-time Professor of Operations Management.** Université Catholique De Louvain, Belgium.

2010 – 2010 **Associate Professor of Operations Management.** Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands.

2003 – 2010 **Assistant Professor of Operations Management.** Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands.

2008 – 2008 **Visiting professor.** MIT-Zaragoza Logistics Center (ZLC), Spain.

2007 – 2008 **Part-time Professor of Operations Management.** Lessius University College, Belgium.

2003 – 2007 **Part-time Professor of Statistics.** Vesalius College, Free University Brussels, Belgium.

1997 – 2003 **Research and Teaching Assistant.** University of Antwerp, Belgium.

Education

2011 **University Teacher Qualification.** Eindhoven, University of Technology, The Netherlands.

1999 – 2003 **Ph.D. Operations Management and Operations Research.** University of Antwerp, Belgium.
Thesis title: *Models for uninterrupted traffic flows, a queueing approach.*
Promotor: Prof.dr. Nico Vandaele (KULeuven, Belgium)

1997 – 1999 **Doctorandus Operations Management and Operations Research.** UFSIA, University of Antwerp, Belgium.

1995 – 1997 **M.Sc. Operations Management and Operations Research.** UFSIA, University of Antwerp, Belgium.

1992 – 1995 **B.Sc. in Applied Economic Sciences.** UFSIA, University of Antwerp, Belgium.

Research Summary

I work with a team of roughly 10 Ph.D. and PostDoc students developing **advanced mathematical models** for Freight Transport and Logistics. We focus on real-world challenges, creating practical optimization solutions that enhance operational efficiency.

Our core research addresses the **uncertainties and complexities** inherent to real-world logistics. We capture dynamic factors such as fluctuating travel times, traffic congestion, and demand uncertainty, expanding foundational models into robust decision frameworks for complex environments. To tackle these problems, we leverage **advanced mathematical techniques**, such as integer programming, branch-and-price, and metaheuristics, alongside Artificial Intelligence methods like machine learning and reinforcement learning. This integrated toolkit enables innovative solutions for challenges spanning vehicle routing to global supply chain design.

With over 180 published papers, significant research funding, an h-index of 67 , and over 16,800 Google Scholar citations, our research shapes the field. Our work appears in top-tier journals including *Management Science*, *Transportation Science*, and *Transportation Research Part B*.

I actively **collaborate** with leading international researchers worldwide. These cross-border partnerships drive joint research initiatives, co-authored publications, and global impact in transport and logistics. Through **strong industry partnerships**, we treat partner companies as "living laboratories" to test and validate theoretical models against empirical data. This bridges science and application, delivering actionable solutions to industry while preparing Ph.D. students for careers in academia and business.

By combining methodological rigor, global expert networks, and direct industry integration, our work advances the boundaries of Freight Transport and Logistics to benefit both academic knowledge and society.

Research Publications

Journal Articles

1. S. Charaf, D. Tas, S. Flapper, G. Desaulniers, and T. Van Woensel, "A path-based two-commodity flow model and a branch-price-and-cut algorithm for the inventory routing problem with time windows," *International Transactions in Operational Research*, 2027, Accepted June 2026.
2. O. Derse and T. Van Woensel, "The two-echelon location-routing model with multi-commodity, automated delivery systems and integrating people and freight transportation," *Central European Journal for Operations Research*, 2027, Accepted November 2025.
3. A. Eksi, M. Elyasi, S. Minner, T. Van Woensel, O. Örsan Özener, and A. Ekici, "Inventory-routing problems: Review, challenges, and innovations," *European Journal of Operational Research*, 2027, Accepted April 2026.
4. H. Gilani and T. Van Woensel, "Predictive stochastic repurposable supply chain: An adaptive strategy toward supply chain plasticity," *Transportation Research Part C: Emerging Technologies*, 2027, Accepted May 2026.
5. X. Hao, S. Huang, E. Demir, A. Al-Hanbali, and V. W. T., "Who moves with the robotaxi? a role-based nlp sentiment analysis of acceptance, trust, and action in autonomous mobility," *Transportation Research Part A: Policy and Practice*, 2027, Accepted July 2026.
6. B. Ji, W. Qian, Z. Wu, S. Yu, D. Zhang, and T. Van Woensel, "Joint serial lock schedule design and sailing speed optimization on inland waterway for emission reduction," *European Journal of Operational Research*, 2027, Accepted January 2026.
7. B. Ji, W. Qian, S. S. Yu, Y. Song, D. Zhang, and T. Van Woensel, "Joint optimization of berth allocation and ship speed considering port group transshipment rationalization," *IEEE Transactions on Intelligent Transportation Systems*, 2027, Accepted December 2025.
8. F. Mercurio, L. Schlicher, S. Rohmer, and V. W. T., "Collaboration in parcel locker networks - a cooperative game for the joint placement of lockers," *International Journal of Production Economics*, 2027, Accepted June 2026.

9 S. Torkaman, S. Gelper, N. Mutlu, and T. Van Woensel, "From return to exchange: The value of an omnichannel journey," *Production and Operations Management*, 2027, Accepted June 2026.

10 C. H. Bazelmans, S. L. ter Braake, A. Schrotenboer, R. van Lieshout, and T. Van Woensel, "The vehicle routing problem with pickups, deliveries, and scheduled linehauls," *European Journal of Operational Research*, vol. 330, pp. 995–1008, 3 2026.

11 S. Celik, A. Schrotenboer, L. Martin, and T. Van Woensel, "Is waiting worth it? the value of delaying time window assignment in vehicle routing problems," *Transportation Research. Part B: Methodological*, vol. 204, p. 103 381, 2026.

12 M. Chastre, A. Schrotenboer, C. Imdahl, and T. Van Woensel, "The scheduled joint replenishment problem," *International Journal of Production Economics*, vol. 296, p. 109 930, 2026.

13 D. Chen, C. Imdahl, D. Lai, and T. Van Woensel, "A reinforcement learning approach for the dynamic vehicle routing and scheduling problem with stochastic request times and time-dependent, stochastic travel times," *Transportation Research. Part C: Emerging Technologies*, vol. 182, p. 105 387, 2026.

14 J. Kinable, N. Sluijk, M. Gendreau, W. Rei, and T. Van Woensel, "Fair stochastic vehicle routing with partial deliveries," *Transportation Science*, vol. 60, pp. 264–283, 2 2026.

15 S. Li, X. Zhu, P. Shang, T. Van Woensel, and Y. Yao, "Joint optimization of train services and freight delivery in a metro-based underground logistics system," *Transportation Research. Part B: Methodological*, vol. 204, p. 103 377, 2026.

16 E. Mamaghani, Y. Ghiami, E. Demir, and T. Van Woensel, "A green multi-period request assignment problem in road freight transport," *Journal of Cleaner Production*, vol. 519, p. 145 855, 2026.

17 S. K. Rahimi, D. Rahmanian, and T. Van Woensel, "Benders decomposition-based solution approach for periodic relief distribution with dynamic deprivation time modelling," *Computers & Industrial Engineering*, vol. 212, p. 111 669, 2026.

18 E. Sakarya, R. van Lieshout, S. U. Rohmer, and T. Van Woensel, "Quadratic optimization for sustainable agriculture: A study of mixed cropping systems," *Omega : The International Journal of Management Science*, vol. 143, p. 103 539, 2026.

19 K. Tundulyasaree, L. Martin, R. van Lieshout, and T. Van Woensel, "Optimal taxes and subsidies to incentivize modal shift for inner-city freight transport," *European Journal of Operational Research*, vol. 330, pp. 298–310, 1 2026.

20 A. Zamal, A. Schrotenboer, and T. Van Woensel, "End-to-end megacity logistics: A stochastic dynamic order-assignment and dispatching problem," *Transportation Research Part B: Methodological*, vol. 199, p. 103 249, 2026.

21 D. E. Aliabadi and T. Van Woensel, "How customer choice shapes network structure over multiple periods," *Computers & Industrial Engineering*, vol. 210, p. 111 524, 2025.

22 S. Celik, L. Martin, A. Schrotenboer, and T. Van Woensel, "Exact two-step benders decomposition for the time window assignment traveling salesperson problem," *Transportation Science*, vol. 59, pp. 207–450, 2 2025.

23 D. Chen, C. Imdahl, D. Lai, and T. Van Woensel, "The dynamic travelling salesman problem with time-dependent and stochastic travel times: A deep reinforcement learning approach," *Transportation Research Part C: Emerging Technologies*, vol. 172, p. 105 022, 2025.

24 A. Dahimi, V. Lurkin, M. Mohammadi, and T. Van Woensel, "A two-echelon vehicle routing problem with mobile satellites and multiple commodities," *European Journal of Operational Research*, vol. 326, pp. 124–140, 1 2025.

25 A. Galiullina, N. R. Mutlu, and T. Van Woensel, "Matching supply and demand in a repositioning problem: A case study in the horticultural industry," *International Journal of Production Economics*, vol. 281, p. 109 518, 2025.

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27 H. Gilani, H. Sahebi, and T. Van Woensel, "Resilient coordination of test sampling and requirement supply in the lab test supply chain: Soft worst-case distributionally robust optimization," *Computers & Industrial Engineering*, vol. 207, p. 111 316, 2025.

28 H. Hu, J. Zhao, C. Chen, T. Van Woensel, and Y. Wang, "Scheduling emergency materials using road network repair time sequence," *Transportation Research Record*, vol. 2679, 6 2025.

29 M. Remijnse, A. Marandi, S. Rohmer, and T. Van Woensel, "Optimising agri-food supply chains: Managing food waste through harvest and side-stream valorisation," *Journal of Cleaner Production*, vol. 503, p. 145 349, 2025.

30 A. Zamal, A. Schrotenboer, and T. van Woensel, "The two-echelon vehicle routing problem with pickups, deliveries, and deadlines," *Computers & Operations Research*, vol. 179, p. 107 016, 2025.

31 S. Charaf, S. D. Flapper, D. Tas, and T. Van Woensel, "A branch-and-price algorithm for the two-echelon inventory-routing problem," *Computers & Industrial Engineering*, vol. 196, p. 110 463, 2024.

32 S. Charaf, D. Tas, S. D. Flapper, and T. Van Woensel, "A matheuristic for the two-echelon inventory-routing problem," *Computers & Operations Research*, vol. 171, p. 106 778, 2024.

33 G. Chen, T. Van Woensel, J. Xu, Y. Luo, and Y. Li, "Assessing movement-specific resilience of a signalized road network under lane-level cascading failure," *Physica A. Statistical Mechanics and its Applications*, vol. 654, p. 130 154, 2024.

34 S. Dabia, S. Ropke, and T. Van Woensel, "Correction to the paper branch and price for the time-dependent vehicle routing problem with time windows," *Transportation Science*, vol. 58, pp. 919–924, 5 2024.

35 O. Derse and T. Van Woensel, "Integrated people and freight transportation: A literature review," *Future Transportation*, vol. 4, pp. 1142–1160, 4 2024.

36 A. Galiullina, N. Mutlu, J. Kinable, and T. Van Woensel, "Demand steering in a last-mile delivery problem with home and pickup point delivery options," English, *Transportation Science*, vol. 58, no. 2, pp. 454–473, Dec. 2024, ISSN: 0041-1655.

37 S. Hedayati, E. Demir, and T. Van Woensel, "A new approach to the joint order batching and picker routing problem with alternative locations," *IMA Journal of Management Mathematics*, vol. 35, no. 2, pp. 241–265, 2024.

38 S. Hedayati, M. Setak, T. Van Woensel, and E. Demir, "Re-supplying autonomous mobile parcel lockers in last-mile distribution," *Future Transportation*, vol. 4, pp. 1266–1296, 4 2024.

39 S. R. Kancharla, T. Van Woensel, S. T. Waller, and S. V. Ukkusuri, "Meal delivery routing problem with stochastic meal preparation times and customer locations," *Networks and Spatial Economics*, vol. 24, pp. 997–1020, 4 2024.

40 V. Karels, W. Rei, L. Veelenturf, and T. Van Woensel, "A vehicle routing problem with multiple service agreements," English, *European Journal of Operational Research*, vol. 313, no. 1, pp. 129–145, Feb. 2024.

41 D. Lai, Y. Costas, E. Demir, and T. Van Woensel, "The pollution-routing problem with speed optimization and uneven topography," *Computers & Operations Research*, vol. 164, p. 106 557, 2024.

42 J. Lei, A. Che, and T. Van Woensel, "Collection-disassembly-delivery problem of disassembly centers in a reverse logistics network," English, *European Journal of Operational Research*, vol. 313, no. 2, pp. 478–493, Mar. 2024.

43 D. Liu, Z. Pu, Y. Wang, T. Van Woensel, and E. Kaisar, "New spatial analysis and hybrid heuristics enhance truck freight tonnage estimation based on weigh-in-motion data," *IEEE Transactions on Intelligent Transportation Systems*, vol. 25, p. 10 741 214, 12 2024.

44 F. Mercurio, L. Schlicher, S. Rohmer, and T. Van Woensel, "Freight consolidation through carrier collaboration - a cooperative game," *Operations Research Letters*, vol. 56, p. 107 142, 2024.

45 M. Mohammadi, E. Asgari, M. Mamaghan, A. Pirayesh, and T. Van Woensel, "Heterogeneous joint vaccine allocation and quarantine restriction planning under uncertainty: The covid-19 pandemic," *Omega : The International Journal of Management Science*, vol. 128, 2024.

46 S. Mohri, M. Mohammadi, R. Thompson, H. Ghaderi, N. Nassir, and T. Van Woensel, "Contextualizing alternative delivery points in last mile delivery," *Transportation Research. Part E: Logistics and Transportation Review*, vol. 192, p. 103 787, 2024.

47 S. Mohri, M. Mohammadi, and T. Van Woensel, "Designing zero-emissions containerized last-mile delivery systems: A case study for melbourne," *Transportation Research. Part C: Emerging Technologies*, vol. 159, p. 104 492, 2024.

48 F. Petropoulos, G. Laporte, E. Aktas, S. A. Alumur, C. Archetti, H. Ayhan, M. Battarra, J. A. Bennell, J.-M. Bourjolly, J. E. Boylan, M. Breton, D. Canca, L. Charlin, B. Chen, C. T. Cicek, L. A. Cox Jr, C. S. M. Currie, E. Demeulemeester, L. Ding, S. M. Disney, M. Ehrgott, M. J. Eppler, G. Erdoğan, B. Fortz, L. Alberto Franco, J. Frische, S. Greco, A. J. Gregory, R. P. Hämäläinen, W. Herroelen, M. Hewitt, J. Holmström, J. N. Hooker, T. Işık, J. Johnes, B. Y. Kara, Ö. Karsu, K. Kent, C. Köhler, M. Kunc, Y.-H. Kuo, J. Lienert, A. N. Letchford, J. Leung, D. Li, H. Li, I. Ljubić, A. Lodi, S. Lozano, V. Lurkin, S. Martello, I. G. McHale, G. Midgley, J. D. W. Morecroft, A. Mutha, C. Oğuz, S. Petrovic, U. Pferschy, H. N. Psaraftis, S. Rose, L. Saarinen, S. Salhi, J.-S. Song, D. Sotiros, K. E. Stecke, A. K. Strauss, İ. Tarhan, C. Thielen, P. Toth, G. Vanden Berghe, C. Vasilakis, V. Vaze, D. Vigo, K. Virtanen, X. Wang, R. Weron, L. White, T. Van Woensel, M. Yearworth, E. Alper Yıldırım, G. Zaccour, and X. Zhao, "Operational research: Methods and applications," *Journal of the Operational Research Society*, vol. 75, no. 3, pp. 423–617, 2024.

49 I. E. Sakarya, M. Elyasi, S. U. K. Rohmer, O. Orsan Ozener, T. Van Woensel, and A. Ekici, "Two-echelon prize-collecting vehicle routing with time windows and vehicle synchronization: A branch-and-price approach," *Transportation Research Part C: Emerging Technologies*, vol. 171, p. 104 987, 2024.

50 D. Chen, Q. Chen, C. Imdahl, and T. Van Woensel, "A rolling-horizon strategy for dynamic rebalancing of free-floating bike-sharing systems," English, *IEEE Transactions on Intelligent Transportation Systems*, vol. 24, no. 11, pp. 12 123–12 140, Nov. 2023.

51 W. Chen, D. Zhang, T. Van Woensel, G. Xu, and J. Guo, "Green vehicle routing using mixed fleets for cold chain distribution," English, *Expert Systems with Applications*, vol. 233, Dec. 2023.

52 S. Ozarik, V. Lurkin, L. Veelenturf, T. Van Woensel, and G. Laporte, "An adaptive large neighborhood search heuristic for last-mile deliveries under stochastic customer availability and multiple visits," *Transportation Research Part B, Methodological*, vol. 170, pp. 194–220, 2023.

53 N. Sluijk, A. Florio, J. Kinable, N. Dellaert, and T. Van Woensel, "A chance-constrained two-echelon vehicle routing problem with stochastic demand," *Transportation Science*, vol. 57, no. 1, pp. 252–272, 2023.

54 N. Sluijk, A. M. Florio, J. Kinable, N. P. Dellaert, and T. Van Woensel, "Two-echelon vehicle routing problems: A literature review," *European Journal of Operational Research*, vol. 304, no. 3, pp. 865–886, 2023.

55 L. Van Hezewijk, N. Dellaert, T. Van Woensel, and N. Gademann, "Using the proximal policy optimization algorithm for solving the stochastic capacitated lot sizing problem," *International Journal of Production Research*, vol. 61, no. 6, pp. 1955–1978, 2023.

56 Z. Wang, M. Dessouky, and T. Van Woensel, "Pickup and delivery problem with hard time windows considering stochastic and time-dependent travel times," *EURO Journal on Transportation and Logistics*, vol. 12, p. 100 099, 2023.

57 J. Zhang, K. Luo, A. M. Florio, and T. Van Woensel, "Solving large-scale dynamic vehicle routing problems with stochastic requests," *European Journal of Operational Research*, vol. 306, no. 2, pp. 596–614, 2023.

58 J. Zhang and T. van Woensel, "Dynamic vehicle routing with random requests: A literature review," *International Journal of Production Economics*, vol. 256, p. 108 751, 2023.

59 Q. Zhao, K. Tan, J. Du, and T. Van Woensel, "Joint case pack size and unpacking location optimization in a retail supply chain including product returns," English, *Computers & Industrial Engineering*, vol. 182, Aug. 2023.

60 S. Zhou, B. Ji, Y. Song, S. Yu, D. Zhang, and T. Van Woensel, "Hub-and-spoke network design for container shipping in inland waterways," *Expert Systems with Applications*, vol. 223, p. 119 850, 2023.

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62 A. G. Dragomir, T. Van Woensel, and K. Dörner, "The pickup and delivery problem with alternative locations and overlapping time windows," *Computers & Operations Research*, vol. 143, p. 105 758, 2022.

63 V. Ghilas, I. Hedtke, J. Weise, and T. Van Woensel, "Spot market versus full charter fleet: Decisions support for full truck load tenders," *EURO Journal on Decision Processes*, vol. 10, p. 100 022, 2022.

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Honorary Promotor

Professor Gilbert Laporte (HEC Montreal, Canada) received an Honorary Doctorate from the Eindhoven University of Technology during the Dies Natalis 2016 celebration festivities. I acted as the Honorary Promotor for this Honorary Doctorate.

Current PhD Students

1. Marieh Kadivar, 2nd promotor (Promotor: F. Langerak, co-promotor dr. S. Gelper), expected 2026
2. Saba Siadati, promotor (Co-promotor: dr. M. Mohammadi, dr. V. Lurkin), expected 2026
3. Aria Dahimi, promotor (Co-promotor: dr. M. Mohammadi, dr. V. Lurkin), expected 2026
4. Edhem Sakarya, promotor (Co-promotor R. van Lieshout, S. Rohmer), expected 2026
5. Krissada Tundulyasaree, promotor (co-promotor: dr. L. Martin, dr. R. van Lieshout), expected 2026

6. Alfaima Solano Blanco, promotor, expected 2027
7. Miguel Chastre, promotor (co-promotor: dr. C. Imdahl, dr. A. Schrotenboer), expected 2027
8. Casper Bazelmans, promotor (co-promotor: dr. A. Schrotenboer), expected 2028
9. Neslihan Cevik, promotor (co-promotor: dr. A. Schrotenboer), expected 2028
10. Tuğçe Canbilen Suticen, promotor, expected 2028
11. MirMohammad Musavi, promotor (co-promotor: Layla Martin, Nevin Mutlu), expected 2029
12. Ling li, promotor (Willem van Jaarsveld, co-promotor: Layla Martin, Nevin Mutlu), expected 2029

Finished PhD Students

2026

- **Marloes Remijnse**
  Thesis title: *Balancing Supply and Demand in Sustainable Food Supply Chains.*
  Promotor (co-promotor: A. Marandi, S. Rohmer).
- **Dawei Chen**
  Thesis title: *Dynamic and stochastic vehicle routing problem: A reinforcement learning approach.*
  Promotor (co-promotor: dr. C. Imdahl).
- **Şifa Çelik**.
  Thesis title: *From Stochastic Programming to Deep Learning: Advancing Time Window Assignment and Vehicle Routing in Last-mile Logistics.*
  Promotor (co-promotors: dr. A.H. Schrotenboer, dr. L. Martin).
- **Fabio Mercurio**
  Thesis title: *Cooperation and competition in last mile and freight consolidation.*
  Promotor (co-promotor: dr. L. Schlicher, dr. S. Rohmer).

2025

- **Arya Zamal**.
  Thesis title: *Logistics optimization in metropolitan areas.*
  Promotor (co-promotor: dr. A.H. Schrotenboer).
- **Vincent Karels**.
  Thesis title: *Last Mile Logistics: Integration and Collaboration.*
  Promotor (co-promotor: dr. L.P. Veelenturf).
- **Albina Galiullina**.
  Thesis title: *Optimizing Transportation Through Demand Management.*
  Promotor (co-promotor: dr. N. Mutlu).
- **Sara Charaf**.
  Thesis title: *Advances in Inventory Routing Problems: New Models and Algorithms.*
  Promotor (co-promotors: dr. S.D. Flapper, dr. D. Tas).
- **Somayeh Torkaman**.
  Thesis title: *Product Exploration and Exchange in Omni-channel Retail.*
  Promotor (co-promotors: dr. N. Multu, dr. S. Gelper).

2023

- **Natasja Sluijk**.
  Thesis title: *From Chaos to Control: Effective Approaches for Addressing Demand Uncertainty in Vehicle Routing.*
  Promotor (co-promotor: dr. J. Kinable).
- **Sami Ozarik**.
  Thesis title: *Data-Driven Decision Making in Last-Mile Logistics.*
  Promotor (co-promotor: dr. V. Lurkin, dr. L.P. Veelenturf).

Finished PhD Students (continued)

Baris Kocaman.
Thesis title: *Customer Behavior in the B2B Subscription Economy.*
Second promotor (First promotor: prof.dr. F. Langerak, co-promotor: dr. S. Gelper).

2021 **Afonso Henrique Sampaio**.
Thesis title: *Innovative business-to-business last-mile solutions: models and algorithms.*
Promotor (co-promotor: dr. L.P. Veelenturf).

2020 **Peng Sun**.
Thesis title: *New variants of the time-dependent vehicle routing problem with time windows.*
Promotor (co-promotor: dr. L.P. Veelenturf).

2016 **Maryam Steadie Seifi**.
Thesis title: *Multimodal transportation for perishable products.*
Promotor (co-promotor: dr. N.P. Dellaert).

Vaeceslav Ghilas.
Thesis title: *The Pickup and Delivery Problem with Time Windows and Scheduled Lines: Models and algorithms.*
Promotor (co-promotor: dr. E. Demir).

Baoxiang Li.
Thesis title: *Optimization of people and freight transportation: pickup and delivery problem variants.*
Promotor (Second promotor: prof.dr.ir. H.A. Reijers).

2015 **Anna Franceschetti**.
Thesis title: *Sustainable city logistics: Fleet planning, routing and scheduling problems.*
Promotor (Second promotor: Prof.dr.ir. J.C. Fransoo).

2014 **Stefano Fazi**.
Thesis title: *Mode selection, routing and scheduling for inland container transport.*
Promotor (First promotor: Prof.dr.ir. J.C. Fransoo).

Kristina Sharypova.
Thesis title: *Optimization of hinterland intermodal container transportation*
Promotor (First promotor: Prof.dr.ir. J.C. Fransoo).

Derya Sever.
Thesis title: *Routing in Stochastic Networks.*
Promotor (Second promotor: prof.dr. A.G. de Kok, co-promotor: dr. N.P. Dellaert).

2013 **Duygu Taş**.
Thesis title: *Time and reliability in vehicle routing problems.*
Promotor (Second promotor: prof.dr. A.G. de Kok, co-promotor: dr. N.P. Dellaert).

2012 **Said Dabia**.
Thesis title: *Time and multiple objectives in scheduling and routing problems.*
Promotor (Second promotor: prof.dr. A.G. de Kok).

Alina Curseu.
Thesis title: *Retail inventory management with lost sales.*
Promotor (First promotor: Prof.dr.ir. J.C. Fransoo).

2010 **Ola Jabali**.
Thesis title: *Time and timing in vehicle routing problems.*
Promotor (First promotor: prof.dr. A.G. de Kok).

Current PostDoc Students

1. Golman Rahmanifar, working on project Next Level Logistics, Circular supply chains, January 2025 - December 2026

Past PostDoc Students

1. Jian Zhang, Assistant Professor, South China University of Technology, China.
2. Alexandre Florio, Applied Scientist, Amazon, USA.
3. Prince Singh, Strategy and Architecture, Alliander, The Netherlands.
4. Emrah Demir, Full Professor of Operational Research, Cardiff University, UK.
5. Said Dabia, Associate Professor of Transport Optimization, Free University Amsterdam, The Netherlands.
6. Dmitry Krushinsky, Assistant Professor, Wageningen University, The Netherlands.
7. Behzad Hezarkhani, Full Professor in Operations Management, University of Southampton, UK.
8. Youssef Ghiami, Assistant Professor of Logistics and Supply Chain Management, Free University Amsterdam, The Netherlands.

Grants

As the lead scientist from the TU/e, I secured around 40 mio euro in grants (participating in and leading consortia. Over 5mio euro was allocated to the TU/e, mainly used to hire Ph.D. and PostDoc students. An overview of these projects (both leading and participating) is given here.

1. **National funding**:
   a. NWO projects:
      i. NWO DATAS, project leader, 500k euro
      ii. NWO DATA2Move, project leader, 500k euro
      iii. NWO Dareful, project leader, 500k euro
      iv. NWO Living Lab SSCMH, 250k euro
      v. NWO Living Lab FTMAAS, 250k euro
      vi. NWO NEON (New Energy and mobility Outlook for the Netherlands), 12.5mio euro
      vii. NWO-MAGW: Congestion in Network Optimization problems, project leader, 250k euro
      viii. NWA: Cropmix, 600k euro
   b. Dinalog projects:
      i. Cargo Hitching, project leader, 1mio euro
      ii. 4C4D, 2mio euro
      iii. Da Vinc3i, 2mio euro
      iv. LNG Networks, 2mio euro
      v. IZIMOTIVE, 450k euro
      vi. Bundling at the source, 450k euro
   c. Other projects:
      i. Next Level Logistics, 550k euro
      ii. Pieken in de Delta: Hubways, 2mio euro
      iii. IDVV: Managing inland waterways, 150k euro

iv. TRANSUMO: The issue of congestion in vehicle routing problems, project leader, 1mio euro
v. BETA Research School: Modeling operations in retail stores, project leader, 210k euro

2. **International Funding**:

a. European Training Network 2017, PERFORM, 3mio euro
b. CONCOORD, Consolidation and Coordination in Urban Environments, EU, Joint Programming Initiative Urban Europe, project leader, 1mio euro
c. CO3, EU-FP7, 3mio euro
d. SoCoolEU, EU-FP7, 3mio euro
e. Get Service, EU-FP7, 3mio euro
f. Interreg: EcoLogistics, 150k euro
g. Interreg: ST4W, 150k euro
h. Interreg: InnoWaTr, 250k euro
i. FWO PostDoc position, not accepted due to job offer at the TU/e, 250k euro
j. FWO: Dynamisch modelleren van congestiekosten en verkeersmanagementtechnieken, 100k euro

3. **Company funding**:

a. ITUDE-Eyefreight, project leader, 250k euro
b. ORTEC, project leader, 250k euro
c. European Supply Chain Forum, AI Planner of the Future, project leader, 2.5mio euro
d. Van der Wal, project participant, 500k euro

Academic Service

Current Editorial Positions

2021 – · · · · **INFOR**, Associate Editor.
2020 – · · · · **Flexible Services and Manufacturing journal**, Associate Editor.
2019 – · · · · **OR Spectrum**, Department Editor Freight Transport and Mobility.
Omega, Member of the Editorial Advisory Board.

Past Editorial Positions

2018 – 2024 **Logistics Research**, Member of the editorial advisory board.
2017 – 2024 **Urban Science**, Associate Editor.
2012 – 2021 **Transportation Science**, Associate Editor.
2019 – 2021 **Frontiers in Future Transportation**, Specialty Chief Editor in Freight Transport and Logistics.
2017 – 2018 **Transportation Research Part B**, Member of the Advisory Editorial Board.
2015 – 2018 **Journal of Heuristics**, Area Editor Logistics and Supply Chain.

Academic Service (continued)

Professional Societies

2019 – 2019 **Past-President**, Society Transportation Science and Logistics (TSL), INFORMS, Institute for Operations Research and the Management Sciences.

2018 – 2018 **President**, Society Transportation Science and Logistics (TSL), INFORMS, Institute for Operations Research and the Management Sciences.

2017 – 2017 **President-elect**, Society Transportation Science and Logistics (TSL), INFORMS, Institute for Operations Research and the Management Sciences.

2012 – 2016 **Board member**, Society Transportation Science and Logistics (TSL), INFORMS, Institute for Operations Research and the Management Sciences.

Conference committees

2017 – · · · · **INFORMS Transportation Science and Logistics (TSL) Conference**, Member of the Scientific committee.

2015 – · · · · **Odysseus Conference**, Member of the Scientific committee.

2014 – · · · · **Tristan Conference**, Member of the Scientific committee.

INFORMS Transportation Science and Logistics (TSL) Workshop, Member of the Scientific committee.

2013 – · · · · **VEROLOG Workshop**, Member of the Scientific committee.

2011 – 2015 **INFORMS Conference**, Cluster chair INFORMS TSL Freight Transportation and Logistics .

2007 – 2007 **Analysis of Manufacturing Systems Conference**, Chairman.

ELA Workshop, Moderator.

2005 – 2005 **TU/e – METU workshop**, co-organization of the workshop.

Management Summary

In 2019, I assumed the role of **Director of Education and Graduate Program Director** (Associate Dean of Education) in the Department of Industrial Engineering & Innovation Sciences. More recently, I expanded my managerial scope by assuming the **TU/e Portfolio Lead for AI and Education** role. These positions place me at the helm of a complex educational landscape involving approximately 2,500 students across various BSc, MSc, EngD, and Ph.D. programs.

My leadership involves managing and aligning **multiple distinct teams** to ensure operational excellence and strategic growth. Within the department, I lead a group of eight Curriculum Chairs and steer the educational administration and support staff. Simultaneously, in my university-wide AI role, I lead cross-departmental task forces to transform our curricula for the AI age. This requires a versatile management style that balances the operational needs of specific programs with the university's long-term strategic vision.

As a key liaison between the department and the broader university, I work directly with the Deans of the Bachelor College and Graduate School to co-create **university-wide policies, strategies, and plans**. We focus on major institutional changes, such as the redesign of the Bachelor College and the integration of interdisciplinary learning. My job is to translate these high-level strategies into concrete actions for my teams, ensuring that our education prepares students for a rapidly evolving professional world.

I am also an active member of the **Departmental Board**, working alongside the Dean, Vice-Deans, and Managing Director. Here, I contribute to the high-level decision-making that drives our department's long-term direction, resource allocation, and innovation policies.

My current governance roles are underpinned by solid operational experience. Previously, as the **Curriculum Chair for Industrial Engineering**, I was directly responsible for the learning environment of 850 undergraduate students. I also served as **Chairman of the Exam Committee**, where I led efforts to modernize assessment methods and ensure academic integrity. These roles provided me with deep insights into the granular details of curriculum development and student assessment, which now inform my broader strategic decisions.

Beyond the university, I direct the **European Supply Chain Forum** (www.escf.nl), a platform that connects academia with approximately 75 multinational companies. I view this not only as a network but also as an ecosystem in which industry and academia challenge each other. I facilitate collaboration among my students, researchers, and industry leaders to address critical issues, including sustainability, digitalization, and global supply chain resilience.

throughout my career, I have integrated **academic expertise with strategic leadership**. Whether leading administrative teams, guiding curriculum chairs, or shaping university AI policy, my focus remains on fostering innovation and preparing our students to become the next generation of leaders.

Management Positions

2025 – · · · ·
- **University lead of the TU/e Portfolio AI and Education.** Eindhoven University of Technology, The Netherlands.

2019 – · · · ·
- **Director of Education Department of Industrial Engineering & Innovation Sciences.** Eindhoven University of Technology, The Netherlands (Associate Dean of Education).
- **Graduate Program Director of Industrial Engineering & Innovation Sciences.** Eindhoven University of Technology, The Netherlands (Associate Dean of Education).

2017 – · · · ·
- **Director of the European Supply Chain Forum.** Eindhoven University of Technology, The Netherlands.

2022 – · · · ·
- **Academic Director Executive Master Operations and Supply Chain Management (MOS).** Tias Business School, Tilburg, The Netherlands.

2009 – · · · ·
- **Member of the Operations Planning, Accounting and Control Board.** Eindhoven University of Technology, The Netherlands.

2013 – 2024
- **Academic Director Full-time Executive Master Global Supply Chain Management.** Antwerp Management School, Antwerp, Belgium.

Management Positions (continued)

2018 – 2023 **Curriculum Chair Bachelor Program Industrial Engineering.** Eindhoven University of Technology, The Netherlands.

2015 – 2018 **Director 4TU.SAI Professional Doctorate in Engineering (PDEng/EngD) Graduate Program Logistics Management Systems.** Eindhoven University of Technology, The Netherlands.

2014 – 2018 **Member of the TU/e Interfacultaire Commissie (IFC): Humans, Technology, Management & Design.** Eindhoven University of Technology, The Netherlands.

2014 – 2014 **Chair (ad interim) of the Operations, Planning, Accounting and Control Group.** Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands.

2009 – 2012 **Education Manager of the Operations Planning, Accounting and Control Board.** Eindhoven University of Technology, The Netherlands.

2009 – 2011 **Member of the Departmental Council of Industrial Engineering & Innovation Sciences.** Eindhoven University of Technology, The Netherlands.

2013 – 2014 **Chairman of the Exam Committee Industrial Engineering.** Eindhoven University of Technology, The Netherlands.

2011 – 2013 **Member of the Exam Committee Industrial Engineering.** Eindhoven University of Technology, The Netherlands.

2005 – 2017 **Member of the Board of the European Supply Chain Forum.** Eindhoven University of Technology, The Netherlands.

Education Summary

My teaching experience spans **various levels, from undergraduate to executive education**, showcasing my commitment to nurturing talent at all academic and professional development stages. This extensive involvement has allowed me to adapt my teaching methods to diverse learning needs and stay attuned to evolving educational paradigms.

At the **undergraduate** level, I have been instrumental in developing and teaching key courses such as Deterministic Operations Management and Transport and Distribution. My contributions extend to co-lecturing in courses like Logistics 1 (Inventory Control and Forecasting), Modeling and Analyzing Business Processes, Data Collection and Analysis, and Micro-Economics. These experiences have given me a deep understanding of the foundational knowledge required in our field.

For **graduate** students, I have developed and taught courses, including Strategic and Operational Decision-making in Transportation and Logistics, Design for Transportation, and Supply Chain Management. These courses at various institutions, including the University of Antwerp, the Antwerp Management School, MIT-Zaragoza Logistics Center, Lessius University College, and Université Catholique Louvain, reflect my commitment to providing students with advanced, industry-relevant knowledge.

My involvement in **professional doctorate (PDEng) programs** includes developing the Design Assignment in Transport and Logistics course and mentoring projects. At the Ph.D. level, I have taught advanced courses such as Advanced Statistics and specialized topics at prestigious institutions like MIT Zaragoza Logistics Center, HEC Paris, and the University of Vienna.

In **executive education**, I have taken on significant leadership roles. I serve as the academic director of the TIAS-based Executive Master in Operations and Supply Chain Management (MOS). I previously led the Global Supply Chain Management program at Antwerp Management School for 11 years. These roles have allowed me to bridge the gap between academic research and practical business applications.

Throughout my teaching career, I have **supervised** numerous BSc, MSc, EngD, and Ph.D. students, guiding their research projects and supporting their academic growth. This mentorship has been a rewarding aspect of my work, allowing me to foster the next generation of researchers and practitioners in our field.

In recent years, I have actively embraced and contributed to the **new teaching paradigms** at the Eindhoven University of Technology. Challenge-based learning has become a cornerstone of our educational approach, where students tackle real-world problems in collaboration with industry partners. This method enhances their practical skills and fosters creativity and interdisciplinary thinking.

We have also implemented **personalized learning paths**, recognizing that each student has unique strengths, interests, and career aspirations. This approach allows students to tailor their education to their individual goals while ensuring they meet core competency requirements.

The integration of **AI in education** is another area where we are making significant strides. In research projects, we are exploring ways to use AI for personalized feedback, adaptive learning systems, and enhanced data analysis. This prepares our students for the industry's AI-driven future and improves our teaching methods' efficiency and effectiveness.

These innovative educational approaches reflect our commitment to preparing students for the rapidly evolving landscape of technology and business. By combining traditional academic rigor with these new paradigms, we aim to produce graduates who are not only knowledgeable in their field but also **adaptable, innovative, and ready to tackle the complex challenges of the future**.

Honors and Awards

2024 **INFORMS Senior Member.** INFORMS, USA.

2022 Interview within the "**subject to**" series, hosted by Anand Subramanian. `https://www.youtube.com/watch?v=JkW2uIrQ12Q`.

2021 **Outstanding professor in Supply Chain and Logistics award.** Industrial Engineering and Operations Management Society.

2016 **European Journal of Operational Research Best Review Paper.** SteadieSeifi M., N.P. Dellaert, W. Nuijten, T. Van Woensel, R. Raoufi (2014), Multimodal Freight Transportation Planning: A Literature review, European Journal of Operational Research, 233(1), 1-15.

Skills

Mother tongue Dutch.

Languages Strong reading, writing, and speaking competencies in English. Medium passive knowledge of French. Basic knowledge of German.

Coding Java, PHP, Python, LaTeX, …

Misc. Company training, company consultancy.