

Alessio Trivella



Nationality: Italian
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Summary: I am an Assistant Professor of Operations Research at the University of Twente, teaching in the bachelor and master programs of Industrial Engineering & Management. In my research, I develop optimization models and algorithms for solving complex decision making problems arising in the transportation, logistics, and energy sectors (e.g., operations, planning, and investments), often in collaboration with the industry. My technical expertise includes math programming, network algorithms, combinatorial optimization, and decision making under uncertainty with focus on reinforcement learning/approximate dynamic programming.

Work Experience

Jan 2022–present University of Twente (UT), Enschede, Netherlands
Assistant Professor of Operations Research (tenured) at the Department of Industrial Engineering and Business Information Systems

Jan 2019–Dec 2021 Swiss Federal Institute of Technology (ETH Zürich), Zürich, Switzerland
Postdoc in Operations Research at the Institute for Transport Planning and Systems

Jul 2018–Dec 2018 Technical University of Denmark (DTU), Kgs. Lyngby, Denmark
Postdoc in Operations Research at the Department of Management Engineering

Oct 2012–Mar 2015 Bip Consulting, Milan/Verona, Italy
Management consultant for IT projects in the banking sector (UniCredit Group)

Education

Apr 2015–Jun 2018 Technical University of Denmark, Kgs. Lyngby, Denmark
PhD in Operations Research at the Department of Management Engineering
Dissertation on “Decision making under uncertainty in sustainable energy operations and investments” ([link](#))

Mar–Jul 2017 University of Illinois at Chicago, Chicago, USA
Visiting scholar at the Department of Information and Decision Sciences

May–Jun 2016 Norwegian University of Science and Technology (NTNU), Trondheim, Norway
Visiting scholar at the Department of Industrial Economics and Technology Management

Sep 2010–Jul 2012 University of Milan, Milan, Italy
MSc in Mathematics. Final grade: 110/110 with honors (course grade average 30/30)

Sep 2010–Jul 2012 European Consortium for Mathematics in Industry (ECMI)
ECMI Diploma of Technomathematics

Aug 2011–Jan 2012 Technical University of Denmark, Kgs. Lyngby, Denmark
Erasmus exchange program

Sep 2007–Jul 2010 University of Milan, Milan, Italy
BSc in Mathematics. Final grade: 110/110 with honors (course grade average 29.7/30)

Scientific Qualifications

- ▷ Oct 2023–Oct 2034 - Italian National Scientific Qualification as Associate Professor in Operations Research
In Italian: Abilitazione Scientifica Nazionale a professore universitario di seconda fascia in Ricerca Operativa - settore concorsuale 01/A6.

Awards

- ▷ 2021 - Best Paper Award by CEMA (Commodity and Energy Markets Association)
- ▷ 2021 - Finalist of the EURO Excellence in Practice Award (EEPA)
- ▷ 2020 - Early Career Best Paper Award by INFORMS ENRE (Energy, Natural Resources and the Environment)
- ▷ 2019 - Outstanding Reviewer Award by OR Spectrum
- ▷ 2018 - Outstanding Reviewer Award by the European Journal of Operational Research
- ▷ 2009 - Ranked 1st student out of 120 in the mathematics class of 2008/2009 at the University of Milan

Publications

ENERGY

1. **A.Trivella**, D.Mohseni-Taheri, S.Nadarajah (2023). Meeting corporate renewable power targets. *Management Science*, 69(1), p.491–512. Received the 2020 INFORMS ENRE Early Career Best Paper Award and the 2021 CEMA Best Paper Award. <https://doi.org/10.1287/mnsc.2022.4354>.
2. D.Cazzaro, **A.Trivella**, F.Corman, D.Pisinger (2022). Multi-scale optimization of the design of offshore wind farms. *Applied Energy*, 314, 118830. <https://doi.org/10.1016/j.apenergy.2022.118830>.
3. **A.Trivella**, S.Nadarajah (2021). Socially responsible merchant operations: Comparison of shutdown-averse CVaR and anticipated regret policies. *Operations Research Letters*, 49(4), p.553–558. <https://doi.org/10.1016/j.orl.2021.06.002>.
4. **A.Trivella**, S.Nadarajah, S.-E.Fleten, D.Maziers, D.Pisinger (2021). Managing shutdown decisions in merchant commodity and energy production: A social commerce perspective. *Manufacturing & Service Operations Management*, 23(2), p.311–330. <https://doi.org/10.1287/msom.2019.0850>.
5. N.Mazzi, **A.Trivella**, J.M.Morales (2019). Enabling active/passive electricity trading in dual-price balancing markets. *IEEE Transactions on Power Systems*, 34(3), p.1980–1990. <https://doi.org/10.1109/TPWRS.2018.2888937>.
6. M.Baldini, **A.Trivella**, J.Wente (2018). The impact of socioeconomic and behavioural factors for purchasing energy efficient household appliances: A case study for Denmark. *Energy Policy*, 120(1), p.503–513. <https://doi.org/10.1016/j.enpol.2018.05.048>.
7. M.Baldini, **A.Trivella** (2018). Modeling of electricity savings in the Danish households sector: from the energy system to the end-user. *Energy Efficiency*, 11(7), p.1563–1581. <https://doi.org/10.1007/s12053-017-9516-5>.

TRANSPORT & LOGISTICS

8. **A.Trivella**, F.Corman (2023). Modeling system dynamics of interacting cruising trains to reduce the impact of power peaks. *Expert Systems with Applications*, 230, 120650. <https://doi.org/10.1016/j.eswa.2023.120650>.
9. G.Bonet Filella, **A.Trivella**, F.Corman (2023). Modeling soft unloading constraints in the multi-drop container loading problem. *European Journal of Operational Research*, 308(1), p.336–352. <https://doi.org/10.1016/j.ejor.2022.10.033>.
10. F.Fuchs, **A.Trivella**, F.Corman (2022). Enhancing the interaction of railway timetabling and line planning with infrastructure awareness. *Transportation Research Part C: Emerging Technologies*, 142, 103805. <https://doi.org/10.1016/j.trc.2022.103805>.
11. M.Gajda, **A.Trivella**, R.Mansini, D.Pisinger (2022). An optimization approach for a complex real-life container loading problem. *Omega*, 107, 102559. Selected as a finalist of the 2021 EURO Excellence in Practice Award (EEPA). <https://doi.org/10.1016/j.omega.2021.102559>.
12. T.Spanninger, **A.Trivella**, B.Buchel, F.Corman (2022). A review of train delay prediction approaches. *Journal of Rail Transport Planning & Management*, 22, 100312. <https://doi.org/10.1016/j.jrtpm.2022.100312>.
13. **A.Trivella**, F.Corman, D.F.Koza, D.Pisinger (2021). The multi-commodity network flow problem with soft transit time constraints: Application to liner shipping. *Transportation Research Part E: Logistics and Transportation Review*, 150, 102342. <https://doi.org/10.1016/j.tre.2021.102342>.

14. F.Corman, **A.Trivella**, M.Keyvan-Ekbatani (2021). Stochastic process in railway traffic flow: Models, methods and implications. *Transportation Research Part C: Emerging Technologies*, 128, 103167. Published as part of the ISTTT24 Conference. <https://doi.org/10.1016/j.trc.2021.103167>.
15. **A.Trivella**, P.Wang, F.Corman (2021). The impact of wind on energy-efficient train control. *EURO Journal on Transportation and Logistics*, 10, 100013. <https://doi.org/10.1016/j.ejtl.2020.100013>.
16. S.Long, L.Meng, X.Luan, **A.Trivella**, J.Miao, F.Corman (2020). A stochastic programming approach for scheduling extra metro trains to serve passengers from uncertain delayed high-speed railway trains. *Journal of Advanced Transportation*, 8894174. <https://doi.org/10.1155/2020/8894174>.
17. P.Wang, **A.Trivella**, R.Goverde, F.Corman (2020). Train trajectory optimization for improved on-time arrival under parametric uncertainty. *Transportation Research Part C: Emerging Technologies*, 119(1), 102680. <https://doi.org/10.1016/j.trc.2020.102680>.
18. **A.Trivella**, D.Pisinger (2016). The load-balanced multi-dimensional bin-packing problem. *Computers & Operations Research*, 74(1), p.152–164. <https://doi.org/10.1016/j.cor.2016.04.020>.

WORKING PAPERS

19. D.Mohseni-Taheri, S.Nadarajah, **A.Trivella**. Physical vs. virtual corporate power purchase agreements: Meeting renewable targets amid demand and price uncertainty, *Under review*. <https://ssrn.com/abstract=4520684>.
20. **A.Trivella**, S.Nadarajah. Network-dual policies and bounds for high-dimensional energy real option problems. *Working paper*.
21. D.Merolla, **A.Trivella**, C.Meloni. A new formulation and matheuristic approach to assortment optimization with substitution and complementary effects. *Working paper*.
22. **A.Trivella**, A.Balha, D.Guericke. Designing an optimized fueling infrastructure for a hydrogen-powered railway system. *Working paper*.
23. L.Stoverink, **A.Trivella**, D.Demirtas. The three-dimensional bin-packing problem with item upgrading and outsourcing options. *Working paper*.

CONFERENCE PAPERS

24. **A.Trivella**, F.Corman. An analysis of power peaks in stochastic models of railway traffic. *10th Symposium of the European Assoc. for Research in Transportation (hEART 2022)*. <http://transp-or.epfl.ch/heart/2022.php>.
25. M.Gajda, **A.Trivella**, R.Mansini, D.Pisinger (2022). Sustainable and efficient logistics: How optimization transformed Italmondo’s cargo loading operations. *IFORS News*, Section *OR Impact*, March 2022 Edition. Invited by editors. <https://www.ifors.org/march-2022-issue/>
26. M.Jusup, **A.Trivella**, F.Corman. A review of real-time railway and metro rescheduling models using learning algorithms. *Reinforcement Learning for Intelligent Transportation Systems (RL4ITS)*, part of the *30th International Joint Conference on Artificial Intelligence (IJCAI 2021)*. <https://rl4its-ijcai21.github.io/workshop/>
27. T.Spanning, **A.Trivella**, F.Corman. Approaches for real-time train delay prediction. *9th Symposium of the European Association for Research in Transportation (hEART 2020)*. <http://transp-or.epfl.ch/heart/2020.php>.
28. **A.Trivella**, P.Wang, F.Corman. Train trajectory optimization in the presence of external factors: The example of wind. *8th Symposium of the European Association for Research in Transportation (hEART 2019)*. <http://transp-or.epfl.ch/heart/2019.php>.
29. **A.Trivella**, F.Corman. Modeling uncertainty dynamics in public transport optimization. *19th Swiss Transport Research Conference (STRC 2019)*. <http://strc.ch/2019.php>.
30. M.Baldini, **A.Trivella**, J.Wente. Investigation of consumer’s behaviour towards investments in household energy efficient appliances. *9th International Conference on Energy Efficiency in Domestic Appliances and Lighting (EEDAL 2017)*, Part I, pp386–400, <https://doi.org/10.2760/264880>.
31. **A.Trivella**, D. Pisinger. Bin-packing problems with load balancing and stability constraints. *1st INFORMS Transportation and Logistics Society Conference (TSL 2017)*. <https://connect.informs.org/tsl/conferences/tsl-conference/tsl-conference316>

CONFERENCES

1. IFORS 2023 - 23rd Conference of the International Federation of OR Societies, Santiago, Chile (invited)
2. EURO 2022 - 32nd European Conference on Operational Research, Espoo, Finland (invited, session chair)
3. ECSO-CMS 2022 - Joint 3rd European Conference on Stochastic Optimization & 17th Computational Management Science Conference, Venice, Italy (invited)
4. hEART 2022 - 10th Symposium of the European Association for Research in Transportation, Leuven, Belgium
5. INFORMS 2021 Annual Meeting (invited, online)
6. ICCL 2021 - International Conference on Computational Logistics (online, session chair)
7. ODS 2021 - Optimization and Decision Science Conference, Rome, Italy (invited)
8. EURO 2021 - 31th European Conference on Operational Research, Athens, Greece (two invited talks)
9. ODS 2020 - Optimization and Decision Science Conference (online)
10. INFORMS 2020 Annual Meeting (two invited talks, online)
11. EWGT 2020 - The 23rd Euro Working Group on Transportation Conference (online, session chair)
12. hEART 2019 - 8th Symposium of the European Association for Research in Transportation, Budapest, Hungary
13. ICSP 2019 - 15th International Conference on Stochastic Programming, Trondheim, Norway (invited)
14. EURO 2019 - 30th European Conference on Operational Research, Dublin, Ireland (invited)
15. SVOR 2019 - 17th Swiss Operations Research Days, Lausanne, Switzerland
16. STRC 2019 - 19th Swiss Transport Research Conference, Ascona, Switzerland
17. VWCO 2018 - Vienna Workshop on Computational Optimization, Vienna, Austria
18. EURO 2018 - 29th European Conference on Operational Research, Valencia, Spain (invited)
19. CMS 2018 - 15th Computational Management Science Conference, Trondheim, Norway
20. ECSO 2017 - 2nd European Conference on Stochastic Optimization, Rome, Italy (invited)
21. IFORS 2017 - 21st Conference of the International Federation of OR Societies, Quebec City, Canada (invited)
22. INFORMS TSL 2017 - INFORMS Transportation and Logistics Society Conference, Chicago, USA
23. POMS 2017 - 28th Conference of the Production and Operations Management Society, Seattle, USA (invited)
24. BEHAVE 2016 - 4th European Conference on Behaviour and Energy Efficiency, Coimbra, Portugal
25. OR 2016 - International Conference on Operations Research, Hamburg, Germany
26. EURO 2016 - 28th European Conference on Operational Research, Poznan, Poland (invited)

INVITED SEMINARS AND WORKSHOPS

27. Nov 2022 - Twente Energy Seminars, Energy in Twente Group, Enschede, Netherlands
28. Sep 2022 - Department of Econometrics and Operations Research, University of Tilburg, Netherlands
29. Jun 2022 - YoungPeople4Math Workshop, Catholic University of Sacred Heart, Brescia, Italy
30. Apr 2021 - Centre for Logistics and Supply Chain Management, University of Luxembourg (online)
31. Oct 2020 - Department of Operations, University of Lausanne, Switzerland
32. Apr 2020 - SEES Symposium on Energy, Environment & Sustainability, University of Illinois at Chicago (online)
33. Aug 2019 - Joint Transport Workshop of ETH Zurich and Tongji University, Zurich, Switzerland
34. May 2019 - SAVE-E Energy Saving Workshop, Copenhagen, Denmark
35. Oct 2017 - InvestExL Workshop, NTNU, Trondheim, Norway
36. May 2016 - Department of Industrial Economics and Technology Management, NTNU, Trondheim, Norway

DEPARTMENT SEMINARS

37. Industrial Engineering and Business Information Systems, UT, Netherlands (2022)
38. Institute for Transport Planning and Systems, ETH Zürich, Switzerland (2019, 2020, 2021)
39. Department of Management Engineering, DTU, Denmark (2015, 2016, 2017, 2018)

Teaching

- ▷ Optimization of Sustainable Energy Systems, MSc course, UT (**Coordinator and Lecturer**, fall 2022, fall 2023)
Topics: Models and methods for tackling optimization problems in the energy sector such as energy systems planning, bidding in electricity markets, and managing real options, including modern energy transition challenges ([link](#)). I designed the course (jointly with D.Guericke).
- ▷ Operations Research Techniques 1, MSc course, UT (**Lecturer**, spring 2022, spring 2023)
Topics: Linear and integer programming, optimization on networks, exact and heuristic techniques including the Simplex methods, branch and bound, dynamic programming, column generation, Lagrangian relaxation, heuristics and metaheuristics.
- ▷ Modeling and Analysis of Stochastic Processes, BSc course, UT (**Lecturer**, spring 2022, spring 2023)
Topics: Markov chains, Markov decision processes, stochastic dynamic programming.
- ▷ Professional Skills for BSc Industrial Engineering and Management, UT (**Tutor**, fall 2022, spring 2023, fall 2023)
Topics: Soft skills as, e.g., critical reading and thinking, presenting, interviewing, academic writing, leadership, project management, ethics.
- ▷ Logistics and Freight Transportation, MSc course, ETH Zürich (**Lecturer**, spring 2020, spring 2021; **Invited guest lecturer**, spring 2022, spring 2023)
Topics: Quantitative methods for solving decision making problems arising in logistics and transportation, e.g., facility location, bin packing and container loading problems, commodity flows in networks, traveling salesperson problem, vehicle routing problem.
- ▷ Network Optimization, MSc course, DTU (**Teaching assistant**, fall 2016, fall 2017)
Topics: Minimum spanning tree, shortest path, maximum flow, minimum cost flow, multi-commodity flow, with respective algorithms.
- ▷ Mathematical Programming with Modeling Software, MSc course, DTU (**Teaching assistant**, spring 2017)
Topics: Formulate and solve linear, integer, and mixed-integer programs using the modeling language GAMS, and analyze the solutions.

Student supervision

VISITING PHD STUDENTS

1. Francesco Paolo Saccomanno, PhD student at the University of Calabria, visited me at the UT in Oct–Dec 2023.
2. Davide Merolla, PhD student at Sapienza University of Rome, visited me at the UT in Mar–Jun 2023
3. Davide Cazzaro, PhD student at the Technical University of Denmark, visited me at ETH Zürich in May–Jul 2021.
The visit resulted in [this publication](#)

MSc STUDENTS

4. [In progress] Nico Kornegoor. Application of the integrated crew re-planning problem for real-time rescheduling of disrupted train operations (UT, 2023) [Collaboration with DB Cargo Nederland]
5. [In progress] Robbert Abbink. Improving the Dutch railway schedule with driving advisory systems and automated train operations (UT, 2023) [Collaboration with NS Nederlandse Spoorwegen]
6. Laurens Kok. Investigating end-to-end logistics: A strategic analysis of intermodal transportation (UT, 2023) [Collaboration with Bolk]
7. Tim Kerkhof. Developing a supplier timeslot indication model for an e-fulfillment center balancing incoming workload (UT, 2023) [Collaboration with Bol.com]
8. Jorn Hesselink. Time-dependent routing with contraction hierarchies (UT, 2023) [Collaboration with Simacan]
9. Elles de Rooij. Leveling inbound flow: Item allocation under fixed capacity inbound flow at Ahold Delhaize Inbound Logistics department (UT, 2023) [Collaboration with Ahold Delhaize]
10. Luc Stoverink. Multi-level optimization-heuristic framework for three-dimensional bin packing problem with item upgrading and outsourcing options (UT, 2023) [Collaboration with Voortman Steel Machinery]
11. Jelle van Pijkeren. Designing the logistics network for a parcel carrier (UT, 2023) [Collaboration with IG&H]
12. Femke Binnenpoorte. Increasing the availability of personal protective equipment in a big ad hoc service company (UT, 2022) [Collaboration with Stork]
13. Marc Muggli. Benchmarking dynamic programming approaches for determining energy-efficient train trajectories (ETH Zurich, 2021)
14. Guillem Bonet Filella. Multi-delivery container loading problem with soft unloading constraints (ETH Zurich, 2021). The thesis resulted in [this publication](#)

15. Florian Fuchs. On the interaction of line planning and timetabling (ETH Zurich, 2020). [Collaboration with Rhaetian Railway] The thesis resulted in [this publication](#)
16. Jan Lordieck. Multimodal freight transport systems under disruptions: Potentials and requirements of mode shift for disruption response (ETH Zurich, 2020)
17. Mikele Gajda. Optimization algorithms for a real-life container loading problem (ETH Zurich & DTU & University of Brescia, 2019). [Collaboration with ITLM Group] The thesis resulted in [this publication](#)
18. Dennis Holmes. A new column generation heuristic for the 3D bin-packing problem (DTU, 2016)

BSC STUDENTS

19. [In progress] Marteen Timmer. Recommending drivers optimal routes including loading stations based on location and battery status (UT, 2023) [Collaboration with Yes Hugo]
20. Amina Balha. Increasing fuelling capacity of hydrogen trains while minimising costs at Provincie Groningen (UT, 2023) [Collaboration with Provincie Groningen]
21. Bram Segerink. Improving the overall quality of the warehouse of Siers installatietechniek (UT, 2023) [Collaboration with Siers Groep Oldenzaal]
22. Huisman Elise. A standardised layout data model and visualisation tool to showcase the performance of class-based storage policies in warehouses (UT, 2023) [Collaboration with Bricklog]
23. Joshua Thiescheffer. Cost-effective energy optimization at a metal processing company (UT, 2023) [Collaboration with Coes Metaalbescherming]
24. Bram Uden. Allocation and scheduling of incident general leaders at ProRail (UT, 2023) [Collaboration with ProRail]
25. Justin Veldhuis. Optimizing the travel compensation plan of Betsy (UT, 2022) [Collaboration with Betsy]
26. Julian van Engelen. Improving routes of an installation company (UT, 2022) [Collaboration with Hamer]
27. Philip Borggreve. Designing a cash-flow model to assess service requests (UT, 2022) [Collaboration with Rodelta Pumps International]

Grants & Projects

- ▷ 2024–2027: Project “From Industrial Symbiosis to Hubs for Circularity (IS2H4C)” granted by the European Commission, Horizon Europe Innovation Action (19.930.000 EUR; of which 3.315.000 to UT; PI: D.Yazan)
Topic: Scale up industrial areas to Hubs for Circularity by promoting industrial/urban/rural symbioses to prevent or reduce waste streams, prioritizing resource efficiency, and maximizing renewable energy use. Role: Contributor to proposal writing and co-lead (with D.Guericke) of a work package on “Modelling and optimisation for Hub4Circularity development” with a budget of ~2.5000.000 EUR and 10+ partners.
- ▷ 2024–2027: “Strategies for corporate renewable energy procurement: Towards a 24/7 matching of supply and demand”, personal starter grant by the Dutch Ministry of Education, Culture and Science (300.000 EUR)
Topic: Design cost-effective energy procurement strategies for firms to match their electricity consumption with carbon-free electricity at every hour of every day by using, e.g., power purchase agreements, energy storage, and demand-response. Role: Main applicant.
- ▷ 2023–2024: Project “Circular Economy Platform Twente: CEP TWENTE” granted by the Climate Centre Seed Funding of the University of Twente (8.700 EUR; PI: D.Yazan)
Topic: Create a platform to promote collaboration, interdisciplinary research, and education on sustainable circular economy in the Twente region as well as connect with global circular economy initiatives. Role: Participant to the project and contributor to proposal writing.
- ▷ 2019–2021: Project “DADA: Dynamic data-driven Approaches for stochastic Delay propagation Avoidance in railways” granted by the Swiss National Science Foundation (1.440.000 CHF, PI: F.Corman)
Topic: Improve operational planning and rescheduling decisions in railways systems by developing optimization approaches that account for uncertainties. Role: Researcher within the project, which funded my 3-year postdoc at ETH Zürich. I was not involved in grant acquisition.
- ▷ 2016–2018: During my PhD, I acquired 6 travel grants for research visits and conferences: 3 from Otto Mønstedts Fond (tot. 16.200 DKK), 2 from Oticon Fonden (tot. 18.000 DKK), and 1 from INFORMS (425 USD)
- ▷ 2015–2018: Project “SAVE-E energy savings: closing the energy efficiency gap” granted by the Danish Innovation Fund (21.340.000 DKK; PI: H.K.Jacobsen)
Topic: Develop methods and models to prioritize energy saving initiatives in both households and production sectors, reducing investment uncertainty and barriers. Role: Researcher within the project, which funded my 3-year PhD at DTU. I was not involved in grant acquisition.

Services

Referee: 60+ reviews for scientific journals and conferences (see verified reviews on my [WoS profile](#))

Journals: Operations Research, Management Science, Manufacturing & Service Operations Management, European Journal of Operational Research, Computers & Operations Research, Annals of Operations Research, Omega, OR Spectrum, Journal of the Operational Research Society, Transportation Research Part B: Methodological, Transportation Research Part C: Emerging Technologies, Transportation Research Part E: Logistics and Transportation Review, Transportmetrica B: Transport Dynamics, Journal of Advanced Transportation, EURO Journal on Transportation and Logistics, IET Intelligent Transport Systems, Journal of Rail Transport Planning & Management, Applied Energy, Energy Efficiency, IEEE Transactions on Power Systems, IEEE Transactions on Energy Markets Policy and Regulation, Applied Mathematical Modelling, Engineering Optimization, Optimization and Engineering, Electronic Commerce Research, Operational Research, Computational Management Science

Conferences: Symposium of the European Association for Research in Transportation (hEART), International Conference on Advanced Systems in Public Transport (CASPT), IEEE International Conference on Intelligent Transportation Systems (IEEE ITSC), Transportation Research Board Annual Meeting (TRB), Triennial Symposium on Transportation Analysis (TRISTAN)

Others: - Co-chair of a roundtable on “Circular energy systems” at the workshop Exploring Circular Economy Solutions for a Sustainable Future (University of Twente, October 2023)
- Organizer of a session on “Stochastic optimization in energy” at the EURO 2022 Conference
- Panelist member for “Making an Impact: Excellence in practical OR” at the EURO 2022 Conference
- Co-organizer of a session on “New models and algorithms for commodity operations and valuation” at the ECSO-CMS 2022 Conference

Miscellaneous

Methods: Advanced: Mathematical programming (linear, integer, stochastic, dynamic), network optimization, (meta-)heuristics, approximate dynamic programming, real option valuation
Others: Machine learning, statistics, forecasting, stochastic processes

Tools: Advanced: Matlab, C++, GAMS, MS Office (solvers: Gurobi, CPLEX)
Others: Python (learning), Java

Languages: Italian (mother tongue), English (fluent), Spanish (basic, learning)

Hobbies: Traveling around the world to discover new landscapes, cultures, friends and stories. I have covered 50+ countries in Europe, North and South America, Central and South East Asia, North and Southern Africa, and the Middle East. You can find photo galleries of some of my trips [here](#).

References

David Pisinger
Professor of Operations Research
DTU Management, Technical University of Denmark

Selvaprabu Nadarajah
Associate Professor of Operations Management
Information and Decision Sciences department, University of Illinois at Chicago

Francesco Corman
Associate Professor of Transport Systems
Institute for Transport Planning and Systems, ETH Zurich