Daniele Manerba, Ph.D. – Academic CV

Born in Brescia (Italy), 1983.
Italian.
Male.

**Affiliation:** Dept. of Control and Computer Engineering (DAUIN) - Politecnico of Torino, Italy.

**Position:** Assistant Professor (RTD A) in Operational Research (MAT/09). Since 09/01/2017.

**Contacts:**
- **Office:** DAUIN, 4° floor, zone C. Corso Duca degli Abruzzi, 24 - 10129 Torino (TO)
- **Phone:** +39 011 090 7012
- **E-mail:** daniele.manerba@polito.it

**Academic web profiles:**
- Scopus: [https://www.scopus.com/authid/detail.uri?authorId=55220200300](https://www.scopus.com/authid/detail.uri?authorId=55220200300)
- GoogleScholar: [https://scholar.google.it/citations?user=pXW63_QAAAAJ](https://scholar.google.it/citations?user=pXW63_QAAAAJ)
- ResearchGate: [https://www.researchgate.net/profile/Daniele_Manerba](https://www.researchgate.net/profile/Daniele_Manerba)
- Publons: [http://publons.com/a/1404480/](http://publons.com/a/1404480/)

**Previous affiliations:**
- 2010 - 2016: Department of Information Engineering - University of Brescia. Italy.

**Research interests:**
- Integer Programming / Combinatorial Optimization
- Polyhedral analysis / Polyhedral combinatorics
- Exact algorithms, Branch-and-cut, Branch-and-price, Meta-heuristics, Matheuristics
- Distribution/Procurement Logistics, Vehicle Routing Problems, City Logistics, Last-mile optimization
- Supplier selection / Discount policies / Purchasing
- Stochastic Programming
- Energy Management / Virtual Power Plant optimization
- Home Healthcare Logistics / Nurse routing and rostering
- Network Optimization / Inter-modal and Synchro-modal transportation

Last update: 03/01/2019
Publications

International journals


Conference papers/proceedings (selective conferences)


*Abstracts in journals*


*Doctoral thesis*


*Technical Reports*


Conferences / Dissemination

Speaker at the following national and international selective conferences


Co-author of the following works presented at national and international selective conferences


Posters presented


Seminars


Organization Committee of the following conferences:

- AIRO 2011 - Operational Research in Transportation and Logistics. September 6-9, 2011. Brescia, Italy

Chair of the following conference sessions:

- Stochastic Programming. ODYSSEUS, June 3-8, 2018. Cagliari (Italy).
Previous positions:

- 01/01/2016 – 31/12/2016. Post-doc research fellow (MAT/09 - Operational Research, ING-INF/07 - Electric and electronic measures, ING-INF/01 - Electronics) at Department of Information Engineering - University of Brescia. Subject: “Development and validation of optimization models and algorithms for Energy Management”.
- 01/10/2015 – 31/12/2015. Post-doc research fellow (MAT/09, Operational Research) at Department of Information Engineering - University of Brescia. Subject: “Analysis and optimization of the colo-rectal cancer therapy process”.
- 01/10/2014 – 30/09/2015. Post-doc research fellow (MAT/09, Operational Research) at Department of Information Engineering - University of Brescia. Subject: “Optimization models and algorithms for management, consumption, and storage of energy”.

Reviewer for the following journals/conferences:

- 4OR – A Quarterly Journal of Operation Research
- American Journal of Mathematical and Management Sciences
- Annals of Operations Research
- Asia-Pacific Journal of Operational Research
- Assembly Automation
- Computational Management Science
- Computers & Industrial Engineering
- Computers & Operations Research
- Conference on Automation Science and Engineering (CASE2017)
- EURO Journal on Transportation and Logistics
- European Journal of Operational Research
- IEEE COMPSAC2017
- International Journal of Management Science and Engineering Management
- International Journal of Production Research
- International Transactions in Operational Research
- Journal of Cleaner Production
- Journal of Experimental & Theoretical Artificial Intelligence
- Journal of the Operational Research Society
- Journal of Scheduling
- Operational Research: An International Journal
- Operations Research
- Scientia Iranica – International Journal of Science and Technology
- Soft Computing
- Transport Research Arena (TRA2018)
- Transportation Research Part B: Methodological
- Transportation Research Part E: Logistics and Transportation Review
- Transportation Science

Outstanding reviewer (https://www.reviewerrecognition.elsevier.com/#/profile/ae4f1804-58ed-4bb3-93cf-743fd8963502):

- Computers & Operations Research
- European Journal of Operational Research
Transportation Research Part E: Logistics and Transportation Review

Prizes, Awards, Invitations

- EU/ME scholarship to attend “VRP2013: European Spring School on Vehicle Routing”

Research groups and memberships:

- OROgroup – Operations Research group at Dept. of Control and Computer Engineering, Politecnico di Torino (http://www.orgroup.polito.it)
- ICELAB - ICT for City Logistics and Enterprises Lab (http://icelab.polito.it)
- OR@DII – Operations Research group at Dept. of Information Engineering of University of Brescia (http://or-dii.unibs.it/)
- OR@BRESCIA – Operation Research group at University of Brescia
- AIRO – Italian Association of Operational Research
  - Sezione tematica “Programmazione stocastica”
- EU/ME – European working group on Metaheuristics
- VeRoLog – EURO working group on Vehicle Routing and Logistics Optimization

Research collaborations and experiences

- Stable international collaborations: Michel Gendreau (Polytechnique du Montréal, CIRRELT), Jorge Riera-Ledesma (Universidad de la Laguna, Spain), Denise Holfeld and Axel Simroth (Fraunhofer Institute IVI of Dresden, Germany).

National and International Research projects

Scientific responsibility:

- SYNCHRO-NET - Synchro-modal supply chain eco-NET. European Union's Horizon2020 research and innovation programme, grant 636354. Duration: 3.5 years.
  Scientific coordinator of two working packages:
  - WP5: Supply Chain De-Stressing Simulator & eco-NET. From 02/2017 to 04/2018.

Partecipation in national and international projects:

- SYNCHRO-NET - Synchro-modal supply chain eco-NET. European Union's Horizon2020 research and innovation programme, grant 636354. Duration: 3.5 years.
- S.IN. - Social INnovation (00665), Virtual eGateway (Gateway domestico per la gestione interattiva dei flussi di energia). Duration: 3 years
• **S.C.U.O.LA. - Smart Campus as Urban Open LAb.s.**
  Regione Lombardia, “Smart Cities and Communities”.
  Duration: March 2014 - November 2015.

• **Portale integrato per la tracciabilità di filiera e la trasparenza dei prodotti di IV gamma nel comparto ortofrutta.** Regione Lombardia, “FEARS PSR Programma di Sviluppo Rurale 2007-2013, Misura 124”. Duration: 2 years (July 2012 – July 2014)
Teaching activities

Main teaching:

- 2017/2018 –

Teaching assistance:

- 2018/2019 –
  o Course: “Ottimizzazione per il Problem Solving”, Prof. R. Tadei. Corso Di Laurea In Ingegneria Informatica/Meccanica/Gestionale/altri e Corso Di Laurea In Matematica Per L'Ingegneria (6 cfu); Politecnico di Torino. [XX hours, Italian]

- 2017/2018 –

- 2016/2017 –
  o Course: “Ottimizzazione per il Problem Solving”, Prof. R. Tadei. Corso Di Laurea In Ingegneria Informatica/Meccanica/Gestionale/altri e Corso Di Laurea In Matematica Per L'Ingegneria (6 cfu); Politecnico di Torino. [21 hours, Italian]

Teaching support:

- 2015/2016 – Course: “Ricerca Operativa”, Prof.ssa R. Mansini. Corso Di Laurea In Ingegneria Informatica e Corso Di Laurea In Ingegneria Gestionale (6 cfu). Università degli Studi di Brescia. [50 hours, Italian]
- 2014/2015 – Course: “Ricerca Operativa”, Prof.ssa R. Mansini. Corso Di Laurea In Ingegneria Informatica e Corso Di Laurea In Ingegneria Gestionale (6 cfu). Università degli Studi di Brescia. [40 hours, Italian]
- 2013/2014 – Course: “Ricerca Operativa”, Prof.ssa R. Mansini. Corso Di Laurea In Ingegneria Informatica e Corso Di Laurea In Ingegneria Gestionale (6 cfu). Università degli Studi di Brescia. [25 hours, Italian]
- 2012/2013 – Course: “Algoritmi di Ottimizzazione”, Prof.ssa R. Mansini. Corso Di Laurea Magistrale In Ingegneria Informatica e Corso Di Laurea Magistrale In Ingegneria Gestionale (6 cfu). Università degli Studi di Brescia. [17 hours, Italian]
• 2011/2012 – Course: “Ricerca Operativa”, Prof.ssa R. Mansini. Corso Di Laurea In Ingegneria Informatica e Corso Di Laurea In Ingegneria Gestionale (6 cfu). Università degli Studi di Brescia. [15 hours, Italian]

Member of:

• Collegio dei Docenti di Ingegneria Elettronica, delle Telecomunicazioni e Fisica (ETF) - Politecnico di Torino (2017 - on going)
• Collegio dei Docenti di Ingegneria Matematica - Politecnico di Torino (2017 - on going)
• Collegio dei Docenti di Ingegneria Informatica, del Cinema e Meccatronica (ICM) - Politecnico di Torino (2017 - on going)

Lectures:

• Laboratory Instructor/Lecturer for “Optimization in City Logistics” course during the “Modelling week” Ph.D. school. September 4-11, 2016. Dept. of Computer Science - University of Verona (Italy). Coordinator: Prof. Giandomenico Orlandi
• April 2013 – “Polyhedral Analysis and Integer Linear Programming” (8 hours), University of Brescia (Italy).
• March 2012 - “Cplex: optimal solution of MILP problems” (4 hours), University of Brescia, (Italy).

Supervisor of the following thesis:


Academic supervisor of the following curricular stages:

Curriculum studiorum

Academic degrees:


Schools/Ph.D. courses attended

- “Learning and teaching in Higher Education”, 40 hours course with Prof. Ettore Felisatti, Prof. Carla Salvaterra, Prof. Joellen Coryell, Prof. Maria Cinque, Dr. Anna Serbati and Dr. Beatrice Zucchi. Politecnico di Torino (Turin, Italy - 2017)
- “VRP2013: European Spring School on Vehicle Routing”, 25.5 hours course with Professors Daniele Vigo, Christian Prins, Dominique Feillet, Victor Pillac and Michel Gendreau. Université Catholique de l'Ouest (Angers, France - 2013)
- “Optimization on graphs”, 20 hours course with Prof. Giovanni Righini. University of Milano (Milano, Italy - 2013)
- “Stochastic programming”, 25 hours course with Prof. Lewis Ntaimo and Prof. Guglielmo Lulli. University of Milano-Bicocca (Milano, Italy - 2012)