

**Daniela Ambrosino**

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Sex F | Date of birth 06/11/1071 | Nationality Italian

JOB APPLIED FOR

Scuola Nazionale Trasporti e Logistica della Spezia

WORK EXPERIENCE

From November 2016 – to

Associate professor of Operations Research

Department of Economics and Business Studies, University of Genova, Italy

- She teaches
 - Operations Research for Supply Chain Management - Master of Science in Management
 - Optimization of maritime transport and terminal operations - Master of Science in Management of Maritime and port enterprises
 - Operation Research for tourism and revenue management – Degree in Science of tourism
- Her main research activities include the application of optimization techniques to
 - the logistic area
 - Distribution network design / hub location / location-routing problems
 - Multimodal networks design with externalities
 - Distribution plans /vehicles routing problems
 - cruise itineraries' offer
 - Definition of new itineraries
 - Cruise offer evaluation
 - terminal containers management
 - Stowage planning problems
 - Train load planning problems (with mono and multi-objective optimization approaches)
 - Congestion and truck appointment systems
 - choice of intermodal paths in urban networks
- She is member of the Executive Board of the Department of Economics and Business Studies (from November 2015)

From February 2005 – October 2016

Assistant Professor of Operations Research

Department of Economics and Business Studies, University of Genova, Italy

- She taught
 - Operations Research for Supply Chain Management - Master of Science in Management
 - Spreadsheet optimization - Master of Science in Management of Maritime and port enterprises and degree in Economics
 - Maths - degree in Economics

From November 2002 – January 2005

Annual contracts for teaching Maths (degree in Economics)

Department of Economics and Quantitative Methods (DIEM) of the University of Genova

EDUCATION AND TRAINING

November 2001 **PhD in Mathematics applied to Economic Decisions**
University of Pisa, Italy

January 1996 **Graduated in Economics**
University of Genova, Italy

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B2	B2
French	B1	B1	A1	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Organisational / managerial skills

- She has been member of the organizing committee of the Conference on optimization and decision sciences AIRO2007 held in Genoa (September 2007), AIRO2015 held in Pisa (September 2015), Conference on optimization and decision sciences ODS 2019 (September 2019), of the VII Int. Conf. on Mathematical Problems in Engineering, Aerospace, and Sciences, held in Genova (June 2008).
- Member of the Executive Board of the Italian Society of Operations Research (AIRO):
 - from 2008 to 2011;
 - from 2018 to

Job-related skills

Referee for European Journal of Operational Research, International Journal of Production Economics, Computers & Operations Research, Maritime Economics & Logistics, Transportation Research Part E, Transport Policy, Research in transportation economics, Research in Transportation Business & Management

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Independent user	Proficient user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- Good command of office suite (spread sheet, access ,presentation software, word processor)
- good command of Visual Studio / C sharp /MPL /Lingo- Lindo

Driving licence B

ADDITIONAL INFORMATION

Publications

1. D. Ambrosino, V. Asta. An innovative operations-time-space network for solving different logistics problems with capacity and time constraints. Submitted for publication in *Networks*, Special Issue on New network models and approaches for logistics and transportation.(submitted July 2020 – in major revision january 2021)
2. D. Ambrosino and Haoqi Xie (2020). An optimization model for defining the storage strategies for an export yard in container terminals: a case study. In *Lecture Notes in Computer Science*, 12433 LNCS, pp. 119–132.
3. D. Ambrosino, A. Sciomachen, C. Surace (2019). Evaluation of Flow Dependent External Costs in Freight Logistics Networks. *Networks “Network based system optimization”* , 74, 111-123.
4. D. Ambrosino, C. Caballini (2019). New solution approaches for the Train Load Planning Problem. *EURO Journal on Transportation and Logistics*, 8, 299-325.
5. D. Ambrosino, A. Sciomachen (2018). A shipping line stowage planning procedure in the presence of hazardous containers. *Maritime Economics & Logistics*.
6. D. Ambrosino, C. Ferrari, A. Sciomachen, A. Tei (2018). Ports, external costs and Northern Italian transport network design: effects for the planned transformation, *Maritime Policy and Management*, 1-16.
7. D. Ambrosino, M. Paolucci , A. Sciomachen (accepted). Shipping liner company stowage plans: an optimization approach, *Springer book, Advanced concepts, methodologies and technologies for transportation and logistics*.
8. D. Ambrosino, M. Paolucci , A. Sciomachen (2017). Computational evaluation of a MIP model for multi-port stowage planning problems. *Soft computing*, 21 (7), 1753-1763.
9. Ambrosino, C. Ferrari, A. Sciomachen, A. Tei (2016). Intermodal Nodes and External Costs: Rethinking the current network organisation. *Research in Transportation Business & Management*, 19, pp 106-117.
10. D. Ambrosino, A. Sciomachen (2016). A capacitated hub location problem in freight logistics multimodal networks. *Optimization Letters*, 10(5), pp 875-901.
11. D. Ambrosino, D. Anghinolfi, M. Paolucci, S. Siri (2016). An optimization approach for the train load planning problem in seaport container terminals, accepted with minor revisions for Collaborative logistics and intermodality. Models and solutions for global environments, J.E. Hernandez, D. Li, J.E. Jimenez-Sanchez, M.G. Cedillo-Campos, L. Wenping (Eds.), *Production & Process Engineering*, Springer.
12. D. Ambrosino, S., Siri (2015). Comparison of solution approaches for the train load planning problem in seaport terminals. *Transportation Research Part E: Logistics and Transportation Review*, 79, pp. 65-82.
13. D. Ambrosino, M. Paolucci , A. Sciomachen (2015). Experimental evaluation of mixed integer programming models for the multi-port master bay plan problem. *Flexible Services and Manufacturing Journal*, 27 (2-3), pp. 263-284.
14. D. Ambrosino, A. Sciomachen (2015). Using a Bin Packing Approach for Stowing Hazardous Containers into Containerships. In: J.D. Pintér and G.Fasano. *Optimized Packings and Their Applications*. Springer International Publishing Switzerland , 1- 18.
15. D. Ambrosino, S. Siri (2014). Models for Train Load Planning Problems in a Container Terminal. In: J. F. de Sousa and R. Rossi . *Computer-based Modelling and Optimization in Transportation*. Springer International Publishing Switzerland , 15- 25.
16. D. Ambrosino, C. Caballini, S. Siri (2013). A mathematical model to evaluate different train loading and stacking policies in a container terminal, *Maritime Economics & Logistics (MEL)*, 15 (3), 2013, pp. 292-308.
17. D. Ambrosino, A. Sciomachen (2012). How to reduce the impact of container flows generated by a maritime terminal on urban transport. In: C. A. Brebbia. *Sustainability Today*. p. 79-88, Southampton:WIT Press.
18. D. Ambrosino, D. Anghinolfi , M. Paolucci , A. Sciomachen (2010). An experimental comparison of different metaheuristics for the Master Bay Plan Problem. In *Experimental Algorithms*, Lecture Notes in computer Science, Ed. P. Festa., Springer, pp 314-325
19. D.Ambrosino, D. Anghinolfi , M. Paolucci , A. Sciomachen (2009). A new three-step heuristic for the master bay plan problem”, *Maritime Economics & Logistics (MEL)*, Special issue on "OR models in Maritime Transport and Freight Logistics", 11(1), pp 98-120.
20. D. Ambrosino, A. Sciomachen, E. Tanfani. (2006) . A bay assignment algorithm for the container ship stowage problem. *Journal of Heuristics*, 12 (3), pp 211-233.
21. D. Ambrosino, A. Sciomachen, E. Tanfani (2004). Stowing a containership: the Master Bay Plan problem. *Transportation Research A*, 38, pp 81-99.
22. D. Ambrosino, A. Sciomachen (2003). Impact of a yard organization on the master bay planning problem. *Maritime Economics & Logistics (MEL)*, 5 (3), pp 285-300.

Conference Papers

1. Ambrosino, D. and Asta, V. (2021). An Optimization Model to Help Cruise Companies to Evaluate their Offer in a Basin. In Proceedings of the 10th International Conference on Operations Research and Enterprise Systems - Volume 1: ICORES, ISBN 978-989-758-485-5, pages 375-383. DOI: 10.5220/0010350203750383
2. D. Ambrosino, V. Asta, T.G. Crainic (2021). Optimization challenges and literature overview in the intermodal rail-sea terminal. *Transportation Research Procedia*, 52, pp. 163-170, <https://doi.org/10.1016/j.trpro.2021.01.089>.
3. D. Ambrosino, V. Asta (2018). An optimization model to design a new cruise itinerary: the case of Costa Crociere, 5th IFAC Symposium on Control in Transportation Systems, June 2018, Savona, Italy.
4. D. Ambrosino, A. Sciomachen (2017). Investment evaluation in seaports for increasing the rail split modality in multimodal freight networks, IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI).
5. D. Ambrosino, L. Bernocchi, S. Siri (2016). Multi-objective optimization for the train load planning problem with two cranes in seaport terminals, 14th IFAC Symposium on Control in Transportation Systems, Istanbul, Turkey, May 18-20, pp. 383-388.
6. Ambrosino, D., Caballini, C. (2015). Congestion and truck service time minimization in a container terminal. *Maritime-Port Technology and Development - Proceedings of the International Conference on Maritime and Port Technology and Development, MTEC 2014*, pp. 1-10.
7. D. Ambrosino, M. Paolucci, A. Sciomachen (2015). A MIP heuristic for multi port stowage planning. In *Transportation Research Procedia*, 10, 725 – 734.
8. D. Ambrosino, A. Sciomachen (2014). Location of Mid-Range Dry Ports in Multimodal Logistic Networks. In: Raffaele Cerulli, Giovanni Felici, Anna Sciomachen. *Procedia - Social and Behavioral Sciences*. Elsevier, 118- 128, 108.
9. D. Ambrosino, E. Tanfani (2012). An integrated simulation and optimization approach for seaside terminal operations . In: Proceedings 26th European Conference on Modelling and Simulation. Koblenza - Germany, 29 May 2012, p. 602-609.
10. D. Ambrosino, D. Anghinolfi, M. Paolucci, A. Sciomachen (2012). Two mixed integer programming models and their relaxations for the multi-port master bay plan problem. In: Proceeding of the International Conference on Logistics and Maritime Systems.. p. 309-322, Bremen:Hans-Otto Gunther, Kap-Hwan Kim, Herbert Kopfer, Brema, Germany, 22 Agosto 2012
11. D. Ambrosino, A. Bramardi, M. Cucciano, S. Sacone, S. Siri. Modelling and solving the train load planning problem in seaport container terminals. In: IEEE International Conference on Automation Science and Engineering. p. 208-213, Trieste, 24-27 August 2011.
12. D. Ambrosino, E. Tanfani "A discrete event simulation model for the analysis of critical factors in the expansion plan of a maritime container terminal", Proceedings ofl 23rd European Conference on Modelling and Simulation ECMS2009, Madrid, pp. 288-294.
13. D. Ambrosino, D. Anghinolfi , M. Paolucci , A. Sciomachen, "Modelling the multi-port master bay plan problem". In *Maritime Transoprt IV*. Eds R.R-M Dauer, R.M. Sagarra, F.X. Martinez de Osès, UPC, Barcellona, pp 63-73, 2009.

Memberships

She is member of :
CIELI (Italian Excellence Center on Integrated Logistics)
AIRO (Italian Association of Operation Research)
EURO (Association of European Operational Research Societies)
EWGLA (EURO Working Group on Locational Analysis)
EWGT (EURO Working Group on transportation)

Citations

Documents reported on Scopus. - Documents: 40 (since 2003) - Citations: 744 (since 2003)
h-index: 14 (since 2003)

A handwritten signature in blue ink that reads "Daniela Ambrosino".

Genova, 16 February 2021