

ELENA TAPPIA – CURRICULUM VITAE

General information

Address	Department of Management, Economics and Industrial Engineering Via Lambruschini 4/B – Milano (MI) – 20156
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Current position	Assistant Professor at Department of Management, Economics and Industrial Engineering (Politecnico di Milano)

Education

University degree	<i>Period: September 2005 – February 2009</i> Bachelor degree in Management, Economics and Industrial Engineering at Politecnico di Milano Title of the Bachelor Thesis: “Analysis and assessment of software companies through Data Envelopment Analysis methods”
	<i>Period: October 2008 – December 2010</i> Master degree in Management, Economics and Industrial Engineering at Politecnico di Milano <i>cum laude</i> Title of the Bachelor Thesis: “Models supporting the design of AVS/RS for totes”
PhD	<i>Period: October 2011 – December 2014</i> PhD in Management, Economics and Industrial Engineering at Politecnico di Milano <i>cum laude</i> Title of the PhD Thesis: “ Automation in warehouses: study of the new technologies through the development of design and assessment models ”
Other	<i>Period: March 2013 – August 2013</i> Visiting Ph.D. student at Erasmus University (Rotterdam)
	<i>Period: January 2014 – January 2015</i> Pegaso Master Programme “Logistica Distributiva” (Logistics) at MIP

Teaching activity

Courses at BSc	<i>As course responsible:</i> <ul style="list-style-type: none">▪ A.A. 2016/17 to date: Laboratorio di Impianti Industriali, Management Engineering (Bovisa campus) <i>As teaching assistant:</i> <ul style="list-style-type: none">▪ A.A. 2012/13 and 14/15: Logistica Industriale, Mechanical Engineering (Piacenza campus; course responsible: Gino Marchet)▪ A.A. 2013/14: Gestione dei sistemi logistici e produttivi, Management Engineering (Bovisa campus; course responsible: Marco Melacini)▪ A.A. 2013/14 to 15/16: Laboratorio di Impianti Industriali, Management Engineering (Bovisa campus; course responsible: Fabrizio Dallari)▪ A.A. 2014/15 to 16/17: Gestione degli Impianti Industriali, Management Engineering (Bovisa campus; course responsible: Gino Marchet)
Courses at MSc	<i>As teaching assistant:</i> <ul style="list-style-type: none">▪ A.A. 2015/16 to 17/18; 19/20: Logistics Management, Management Engineering (Bovisa campus; course responsible: Marco Melacini)▪ A.A. 2015/16 and 16/17: International Distribution, Management Engineering (Bovisa campus;

Courses at Post-graduate level	course responsible: Marco Melacini)
	<ul style="list-style-type: none"> ▪ A.A. 2012/13 and 13/14: Modellazione dei Sistemi Produttivi e Logistici, Management Engineering (Bovisa campus; course responsible: Marco Melacini)
	<i>Post-graduate:</i> <ul style="list-style-type: none"> ▪ Corso Executive in Logistica Distributiva (co-course responsible and lectures) ▪ IMIM - International Master of Industrial Management (lectures)

Research activity

Research role	<p style="text-align: right;"><i>Period: November 2014 – October 2016</i></p> <p>Post-Doc Research Fellow at DIG (Politecnico di Milano)</p> <p style="text-align: right;"><i>Period: November 2016 – today</i></p> <p>Assistant Professor at DIG (Politecnico di Milano)</p>
Main research area of interest	<ul style="list-style-type: none"> ▪ Automated warehousing systems ▪ Sustainability of logistics systems ▪ Logistics system design for e-fulfillment ▪ Analysis of the contract logistics industry ▪ Global logistics strategy
Example of projects with industry	<ul style="list-style-type: none"> ▪ Observatory on Contract Logistics Market – Osservatori Digital Innovation at School of Management Politecnico di Milano (2017 – Today: Director; 2011-2016: researcher) ▪ “Sviluppo di soluzioni per il magazzino nel settore no food” (Development of warehousing solutions for the non-food industry), funded by Leroy Merlin ▪ “Quali soluzioni per il magazzino 2.0 ?” (What are the solutions for a warehouse 2.0?), funded by: Dematic ▪ “Factory Logistics: analisi e sviluppo di nuovi approcci per sistemi produttivi ad alta responsiveness” (Factory logistics: analysis and development of new approaches for high-responsiveness production systems) funded by Incas

Publications

Main contribution in international journals	<ul style="list-style-type: none"> ▪ Marchet G., Melacini M., Perotti S., Tappia E. (2012) “Analytical model to estimate performances of autonomous vehicle storage and retrieval systems for product totes”, <i>International Journal of Production Research</i>, Vol. 50, No. 24, pp. 7134-7148 ▪ Marchet G., Melacini M., Perotti S., Tappia E. (2013) “Development of a framework for the design of autonomous vehicle storage and retrieval systems”, <i>International Journal of Production Research</i>, Vol. 51, No 14, pp. 4365-4387 ▪ Tappia, E., Marchet, G., Melacini, M., Perotti, S. (2015) "Incorporating the environmental dimension in the assessment of automated warehouses", <i>Production Planning & Control</i>, Vol. 26, No. 10 pp.824-838 ▪ Marchet G., Melacini M., Sassi C., Tappia E. (2017) “Assessing Efficiency and Innovation in the 3PL Industry: an Empirical Analysis”, <i>International Journal of Logistics: Research and Applications</i>, Vol. 20, No. 1-2, pp. 53-72 ▪ Tappia E., Roy D., De Koster R., Melacini, M. (2017) "Modeling, Analysis, and Design Insights for Shuttle-based Compact Storage Systems", <i>Transportation Science</i>, Vol. 51, No. 1, pp. 269-295 ▪ Melacini, M., Perotti, S., Rasini, M., Tappia, E. (2018) "E-fulfillment and distribution in omni-channel retailing: a systematic literature review", <i>International Journal of Physical Distribution and Logistics Management</i>, Vol. 48, No. 4, pp. 391-414
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Main contribution in international conferences

- Marchet, G., Melacini, M., Perotti, S., Rasini, M., Tappia, E. (2018) "Business logistics models in omni-channel: a classification framework and empirical analysis", *International Journal of Physical Distribution and Logistics Management*, Vol. 48, No. 4, pp. 439-464
- Tappia E., Roy D., Melacini, M., De Koster R. (2019) "Integrated storage-order picking systems: Technology, performance models, and design insights", *European Journal of Operational Research*, Vol. 51, No. 1, pp. 269-295
- Rasini M., Agatz N., Tappia, E. (2019) "Anticipatory shipment for pickup point supply", *Omega*, In press, DOI: 10.1016/j.omega.2019.07.005
- Marchet, G., Melacini, M., Perotti, S. and Tappia, E. (2014), "Setting the international logistics strategy: empirical investigation of its evolutionary stages", *Advances in Production Management Systems. Innovative and Knowledge-Based Production Management in a Global-Local World*, Volume 438 of the series IFIP Advances in Information and Communication Technology, 50-58
- Melacini, M., Perotti, S., Rasini, M., Tappia, E. (2017), "Designing logistics in omni-channel retailing: drivers behind company distribution configurations", *Proceedings of the XXII Summer School Francesco Turco, Palermo, Italy*
- Prativiera, L.B., Perotti, S., Tappia, E., Fumero, F. (2018), "Integrating fiscal issues in global distribution network design" *Proceedings of the XXIII Summer School Francesco Turco, Palermo, Italy*
- Melacini M., Moretti E., Perotti S., Prativiera L.B, Tappia E. (2019) "Evolution of Automated Guided Vehicles (AGVs) in the Logistics 4.0 landscape: a classification framework and empirical insights" *Proceedings of the XXIV Summer School Francesco Turco, Brescia, Italy*