

# Curriculum Vitae – Paola Pellegrini

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## Career:

2019–now Research director, Université Gustave Eiffel, COSYS-LEOST, Lille, France.  
2018–now Deputy director of the COSYS-LEOST laboratory, Université Gustave Eiffel, Lille, France.  
2014–2019 Researcher, IFSTTAR, COSYS-LEOST, , Lille, France.  
2011–2014 Post-doctoral researcher, IFSTTAR, COSYS-ESTAS, Lille, France.  
2010–2011 Post-doctoral researcher, IRIDIA, Université Libre de Bruxelles, Bruxelles, Belgium.  
2009–2010 Post-doctoral researcher, Dipartimento di Matematica Applicata, Università Ca' Foscari Venezia, Venice, Italy.  
2008–2009 Post-doctoral researcher, Dipartimento di Elettrotecnica, Elettronica e Informatica, Università di Trieste, Trieste, Italy.  
2005–2006 Visiting researcher, IRIDIA, , Université Libre de Bruxelles, Bruxelles, Belgium.  
2004–2005 Visiting researcher, Department of Systems and Industrial Engineering, University of Arizona, Tucson, USA.

## Education:

2003–2007 PhD in Economics, in the field of Mathematical Economics, Università Ca' Foscari Venezia, Venice, Italy, Thesis title: ACO: parameters, exploration and quality of solutions.  
1999–2003 Master Degree in Business Economics, Università Ca' Foscari Venezia, Venice, Italy, Thesis title: Behavioral Model of an Ant Colony for a Problem of Distributive Logistics with multiple time windows: the case study Polo SpA (in Italian).

## Scientific production:

30 Articles published on international journals (peer-reviewed)  
2 Book chapters  
27 Articles published in the proceedings of international conferences (peer-reviewed)  
51 Abstracts published in the proceedings of international conferences and workshops  
23 Technical reports

## Research project participation:

2017–2020 X2RAIL-4 - Advanced signalling and automation system - Completion of activities for enhanced automation systems, train integrity, traffic management evolution and smart object controllers, S2R-CFM-IP2-01-2019-881806.  
2018–2021 Engage - European network for the ATM community, H2020-EU.3.4.7. - SESAR JU - 783287  
2017–2020 X2RAIL-2 - Enhancing railway signalling systems based on train satellite positioning, on-board safe train integrity, formal methods approach and standard interfaces, enhancing Traffic Management System functions, S2R-CFM-IP2-01-2017-777465.  
2017–2019 Optimised Real-time Yard and Network Management (OptiYard), H2020-S2RJU-OC-2017-777594. Lead of Work Package 5.  
2013–2017 Capacity4Rail - Increasing Capacity 4 Rail networks through enhanced infrastructure and optimised operations (CAPACITY4RAIL), FP7-SST-2013-RTD-1-605650. Lead of Work Package 3.3.  
2013–2015 Simulation of an innovative freight traffic management (SIGIFret - Simulations d'une gestion innovante des circulations fret), Programme de Recherche et D'Innovation dans les Transports terrestres (PREDIT).  
2011–2014 Optimal Networks for Train Integration Management across Europe (ON-TIME), FP7-SCP0-GA-2011-265647.  
2008–2009 Contract-based Air Transportation System (CATS), TREN/07/FP6AE/S07.75348/036889.  
2006 Study on the transportation and economic system in the areas interested by the project "Gronda Sud di Milano" (Studio trasportistico sull'assetto economico e logistico delle aree interessate dal progetto della Gronda Sud di Milano), Rete Ferroviaria Italiana SpA (RFI).

**Research interests:** Optimization, modeling, integer linear programming, metaheuristics, swarm intelligence, transportation, logistics, air traffic management, railway traffic management, autonomous agents, multi-agent systems, parameter tuning

## Research (co-)supervision:

Post-doctoral researcher: Peng Guo, Samuel Deleplanque, Rahimeh Neamatian-Monemi  
PhD students: Franck Kamenga, Kaba Keita, Teresa Montrone, Nicola Coviello, Diego Arenas, Marcella Samà  
Master students: Filippo Sorino, Elisa Marcelli, Cristina Bernardis, Martino Marangon, Cecilia Negri, Guillaume Douchet, Gianpiero Francesca