

Curriculum
Vitae
of **Claudia Caballini**



PERSONAL
INFORMATION

Name	Claudia Caballini
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Nationality	Italian
Date and place of birth	February, 9 1980, Cremona (CR), ITALY

From October 2019 to today:

Assistant Professor at DIATI - Department of Environment, Land and Infrastructure Engineering, Politecnico di Torino, Corso Duca degli Abruzzi 24, 17029 Torino (<https://www.diati.polito.it/>)

Scientific Disciplinary Sector: ICAR 05 - Transportation

Reserch interests: **transportation and logistics, with a main focus on port logistics/shipping and intermodality.**

From January 2010 to September 2019:

Research Fellow and Adjunct Professor at DIBRIS Department of Computer Science, Bioengineering, Robotics and Systems Engineering of the Polytechnic School (former Faculty of Engineering) of the University of Genoa, Via Opera Pia 13

Member of CIELI – Italian Center of Excellence on Logistics, Transport and Infrastructure, of the University of Genoa, Via Bensa 1, 16124 Genova (Italia) - <https://cieli.unige.it/Consiglio>

Below there are detailed:

- a) Academic teaching activity
- b) Teaching activities at Masters / Courses
- c) Participation in projects with public bodies (Regions, Ministries and the European Community) and with private companies
- d) Consulting in the logistics-port sector
- e) Other activities carried out
- f) Research activity
- g) Tutorship for more than 40 Bachelor's and Master's Degree theses relating to the Course of Studies in Management Engineering, Security Engineering, Transport and Territorial Systems, and Computer Engineering, Civil Engineering.

a) Academic teaching activities and teaching support:

- Academic year 2020-2021 (1st semester): adjunct professor co-owner of the 27-hour course "**Planning Methods for Transport and Logistics**" for the Master's Degree Course in Management Engineering, Polytechnic School, University of Genoa.
- Academic year 2019-2020 (2nd semester): teaching within the course of "**Transport Systems and External Logistics**" (lecturer: Prof. Bruno Dalla Chiara) and "**Environmental Sustainability Laboratory**" (lecturer: Eng. Alessandro Casasso) at the Politecnico di Torino.
- Academic year 2019-2020 (2nd semester): teaching for the II level **Master in Climate Change** provided by the Politecnico di Torino.
- Academic year 2019-2020 (1st semester): contract lecturer co-owner of the 27-hour "**Planning Methods for Transport and Logistics**" course for the Master's Degree Course in Management Engineering, Polytechnic School, University of Genoa.
- Academic year 2018-2019 (1st semester): contract lecturer of the 54-hour "**Planning Methods for Transport and Logistics**" course for the Master's Degree Course in Management Engineering, Polytechnic School, University of Genoa.
- Academic year 2017-2018 (1st semester): contract lecturer of the 48-hour "**Planning Methods for Transport and Logistics**" course for the Master's Degree Course in Management Engineering, Polytechnic School, University of Genoa.
- Academic year 2015-2016: 10-hour supplementary teaching activity on "**Maritime-Port Logistics**" (article 23) for the "Models for Logistics" course within the Master's Degree in Safety Engineering: Transport and Territorial Systems, Polytechnic School, University of Genoa.
- From 2014 to today: planning, teaching and support for the interdisciplinary course in English "**Maritime Trade and Logistics: Theory and Applications**", delivered in Barcelona (and with additional lessons in Genoa) during the last week of February at the Escola European Short Sea Shipping, aimed at students of Engineering (Management, Security and Transport, and IT) and Maritime Economics of the University of Genoa.
- From 2009 to 2016: 6 hours per year teaching on port logistics as part of the "**Planning methods for transportation and logistic systems**" course (owner: Prof. Silvia Siri), Master's Degree in Management Engineering from the University of Genoa.
- From 2014 to today: 5-hour teaching per year on port logistics as part of the "**Optimization and control of logistic systems**" courses (owner: Prof. Simona Sacone), Master's Degree in Computer Engineering from the University of Genoa.
- From 2009 to 2014: teaching of 6 hours per year on port logistics within the course of "**Models and Methods for Logistics / Planning Methods for Transport and Logistics**" (owner: Prof. Simona Sacone), Master's Degree in Management Engineering of the University of Genoa.
- From 2007 to 2011: integrative laboratory teaching for the "**Systems Theory**" course (owner: Prof. Pier Paolo Puliafito), as part of the Bachelor's Degree in Management Engineering of the University of Genoa.

b) Teaching activities at Masters and Courses:

- ITS Course - Higher Technician of Logistics and Transport (1st year) promoted by the Italian Academy of Mercantile Navy Foundation and the "Nautico San Giorgio" Technical Institute of Transport and Logistics. 20-hour teaching on **logistics, supply chain management and inventory management; shipping: introduction to maritime-port logistics, container terminals, processes, stakeholders and technological-customs innovations**. Genoa, June-July 2019; May-July 2020.
- Course of "Logistic Manager in the port area" provided by the National Transport School and Logistics of La Spezia. 8-hour teaching on **macro-economic trends in shipping and stakeholders**. La Spezia, January 15, 2020.
- "YARD, SHIP, RAIL PLANNER" course, provided by the training institution Forma Mentis srl. 10-hour teaching on **Performance indicators and reporting in a container terminal: theory and exercises**, in collaboration with Ing. Paolo Rocca of PSA-Voltri Prà. Genoa, 19-20 September 2018.
- ITS Course - Higher Technician of Logistics and Transport (2nd year) promoted by the Italian Academy of Merchant Marine Foundation and the "Nautico San Giorgio" Technical Institute of Transport and Logistics. 58-hour teaching on **maritime transport techniques, Genoese and Italian scenario for intermodality, exercises and ready to work**. Genoa, February-March 2018. Member of the Examination Commission of 24-26 July 2018.
- Course of "Technician of maritime and logistic services", provided by the Aesseffe training body. 92-hour teaching on **supply chain management, integrated logistics, shipping, maritime-port logistics actors and**

processes, management and organization of a container terminal, import and export processes in shipping. Member of the Examination Commission. Genoa, January-May 2018.

- ITS Course - Higher Technician of Logistics and Transport (1st year) promoted by the Italian Academy of Mercantile Navy Foundation and the "Nautico San Giorgio" Technical Institute of Transport and Logistics. 48-hour teaching on **logistics systems, inventory management and operational research**. Genoa, March-April 2017.
- "Logistic Manager in Port Area" course provided by the National Transport School, in collaboration with CIELI. 12-hour teaching on **integrated logistics, role-playing games and customs innovations**. Genoa, December 2017-January 2018.
- "Maritime Law" course provided by the National Transport School. 4-hour teaching in the field of **"Ports and Port Activities"**. La Spezia, December 2016.
- European project "Trainmos 2". 8-hour teaching on **"Intelligent Transportation Systems"** and **"Widemos project"**. Genoa, 2015-2016.
- Master in "System Engineering and Project Management" - I, II and III edition, provided by PERFORM, training center of the University of Genoa. 25-hour teaching on **Project Management**. School of Telecommunications of the Armed Forces FF.AA. of Chiavari. editions 2010, 2012, 2014-2015.
- Master in "System Engineering and Project Management" provided by PERFORM, training center of the University of Genoa. 15-hour teaching on **inventory management** (including Role-playing Exercise). School of Telecommunications of the Armed Forces FF.AA. of Chiavari. 2014-2015 edition.
- Teaching at Accenture Spa - Internal Training Branch: **Integrated Logistics and Project Management**. Assago (Milan), from 2012 to 2015.
- Course for "Employee in Import-Export activities", provided by the local training body Aesseffe. 95-hour teaching: **transport logistics, maritime and port techniques, IT applications, with related exercises**. La Spezia, 2012-2013.
- Qualification course in "Integrated Logistics and Shipping Technician", provided by the Elfo training institution. 40-hour teaching on **inventory management, external logistics, ports, project management**. Albenga, 2011-2012.
- Lecturing at the Cosmos company, 8-hour on **logistics and ports**. Genoa, 2011.
- Master delivered by the National Road Transport Register in "Technical-logistic expert training", module 4. 4-hour teaching of **Planning of the integrated-logistics cycle** in the cities of Bari, Piacenza and Padua, 2008.
- Master in "Logistics and Transport" provided by the Professional Training Body of the Casa di Carità Arte e Mestieri, Province of Alessandria. Modules provided: **inventory management, transport problem, demand forecasting, integrated logistics**. Tortona, 2008.

c) Participation in projects:

- **European Interreg "EasyLog - Optimized logistics for ports and intermodal transport" project**. Axis of the program n. 3: improvement of the connection of territories and the sustainability of port activities. From July-December 2018.
- **"Definition of the specifications, requirements and operating logic of a truck movement control module in Terminal VTE" project**, commissioned by the company PSA-Voltri Prà. May 2018- February 2019.
- **Interreg European project** for Italy-France Maritime cooperation **GECCTT- Îles-GEstion Europeenne Conjointe des Connexions / Transports Transfrontaliers pour les Iles**. Project commissioned by Liguria Ricerche S.p.A., a company of the Liguria Region. March-May 2018.
- **MIE Project - Eco-sustainable Smart Mobility**. Project included in the Italian Technology Cluster for Smart Communities. OR 5: Analysis of handling processes and information exchanges, study of technical solutions for the optimization of these processes, with particular reference to the port context. of 2015-2017.
- **SMILE project - Smart mobility & last MILE logistics**. Project financed by the Liguria Region (POLO Transit). Definition of rules and algorithms for the provision of value-added services to support urban mobility. Funded by the Liguria Region (POLO Transit). 2013-2015.
- **DIECI Project - Electronic Ink Devices for the Intelligent City**. Funded by the Liguria Region (POLO Transit). 2013-2015.
- **SPECIAL Project - Study, modeling, validation and virtual SPeRimentation of Innovative Components for Advanced Handling and Logistics Systems**. Funded by the Liguria Region. 2014
- **Project on the definition of algorithms for the optimization of operational processes in container terminal areas**, commissioned by the company CAP / Novaconsult s.p.a.. 2011-2012.
- **European project BACKGROUNDS "Improving productive clusters accessibility to global market"**, in collaboration with the Liguria Region. (www.backgrounds-project.eu). 2010 - 2012.

- **TERCONMED European Project “Container terminals as a key element in short sea shipping in the Western Mediterranean”,** in collaboration with the Liguria Region (www.terconmed.eu/). 2010 - 2012.
- **European project GFC - Genoa Fast Corridor (part of the European project TIGER) (2010-2012): study and optimization of the railway connection port of Genoa - Rivalta Scrivia backport also through the use of innovative technologies (active and passive RFID, etc.).** Study of the optimization of the loading / unloading of containers on the train.
- **SLIMtruck project,** included within the SLIMport project (Industria 2015, Ministry of Transport). Study of the Trieste port / Ferneti car port connection. Process analysis and mapping. 2010-2011.
- **TECDOC Project - Study of Complex Organizations.** Project commissioned by the Ligurian SIIT Technological District. Analysis of the “port system” as a complex system (case study: the port of Genoa). Year 2009.
- **“Benchmark on diagnostics and maintenance support systems” project,** with particular reference to the railway context. Commissioned by D'Appolonia S.p.A. Year 2009.
- **Regional Logistics Plan. Project commissioned by the Liguria Region.** Elaboration and drafting of the following chapters: “Towards a system of Ligurian ports” and “The role of railways in Ligurian ports” in collaboration with Ing. Guido Porta. Year 2008.

d) [Consulting activity, in collaboration with the company Circle S.p.A., \(http://www.circletouch.eu/\):](http://www.circletouch.eu/)

- **Italian Customs Agency - Central Innovation Technologies Directorate, Director: Dr. Teresa Alvaro (from 2008 to December 2016):**
 - **Analysis and mapping of IMPORT processes** - by road and rail, both AS-IS TO-BE- regarding the entire international logistics chain from origin to destination, both in relation to public and private stakeholders;
 - **Analysis and mapping of EXPORT processes** - both AS-IS TO-BE- of the entire international logistics chain from origin to destination, both in relation to public and private stakeholders;
 - **Analysis and mapping of customs controlled corridors (Fast Corridor)** by road, rail and intermodal one.
 - **Analysis of the use of electronic customs e-seals** in the context of customs processes and other innovative technologies for process automation.
 - **Analysis of the data exchange between customs systems** (AIDA, Il Trovatore) and other information systems of the logistics chain (Port Community Systems-PCS, Terminal Operating Systems-TOS, Corridor Management Platform -CMP, etc.).
- **European Fresh Food Corridor Project (2016):** analysis of the flows relating to the logistics of refrigerated goods between Israel and the port of Venice for the implementation of a technological platform aimed at exchanging, speeding up and automating the flows of the three corridors.
- **Livorno Port Authority (2015):** process analysis, identification of criticalities and definition of future optimized processes for Bunkering, Waste Disposal and Dangerous Goods.
- **Ikea (Fast Corridors) (2014-2015):** functional and process analysis for the implementation of the controlled customs corridor by road from the ports of Genoa and La Spezia to the warehouses of Ikea in Piacenza.
- **Container terminal VTE-PSA Voltri Pra, port of Genoa (2012):** analysis of the processes of the ship and rail cycle, highlighting issues and related solutions.
- **Pgf Logistik inland terminal, Sweden (2012):** analysis of inland terminal processes and definition of improvement areas.
- **Tarros container terminal, port of La Spezia (2011):** process analysis and mapping of the entire terminal, gap analysis and definition of future processes (TO BE) for implementation of the new Terminal Operating System STEP of the software house Dutch Copas.

[Other consulting activities:](#)

[For Liguria Ricerche S.p.a., a company of the Liguria Region:](#)

- Consultancy contract for the project "**Feasibility study of the Viale Italia underpass** in La Spezia and adjacent underground car park. Analysis of current and expected supply and demand: analysis of traffic volumes and number of parking spaces". January-March 2012.
- Consultancy contract for the European project "**SECTRAM - Safety in freight transport**", Interreg Alcotra 2010-2012 project. Activities carried out: study of motorway and railway tariffs in Italy, including that at Alpine crossings, support for the feasibility study for a differentiated toll system for the transport of goods, support for project activities "Application of Directive 1999/62 / EC “EUROBOLLO” OR “EUROVIGNETTE” on the A10 Genova-Ventimiglia to the state border. Input data for the MTCP simulator of D'Appolonia ".

For the university spin-off IROI:

- **Magisquam Simulator (MQ) project**, Genoa (2017). The project is aimed at creating a tool for simulating and analyzing systems and processes belonging to different types of contexts. MQ includes an agent simulator and an optimization tool. Carried out activities: flow diagrams of the processes relating to the port stakeholders (agents) involved in the import cycle from outside EU.

e) Other carried out activities:

- **Evaluator of 12 projects** presented in the tender for the provision of contributions to industrial research and experimental development projects on the subject of 4.0 **enabling technologies for the safety of critical infrastructures, related to the PORT / TRANSPORT theme**. Client: START 4.0, CENTER OF COMPETENCE FOR THE SECURITY AND OPTIMIZATION OF STRATEGIC INFRASTRUCTURES, April 2020.
- **Organizer of the "Collaborative Transportation" workshop** - together with prof. Simona Sacone and prof. Bruno Dalla Chiara - as part of the IEEE-ITSC 2020-Intelligent Transportation System Society, Rhodes, Greece, 20-23 September 2020 international conference.
- **Scientific design of the ITS Course - Higher Technician of Logistics and Transport** for the 2019-2020 edition, promoted by the Italian Academy of Merchant Marine Foundation and the "Nautico San Giorgio" Technical Institute of Transport and Logistics.
- **Design and scientific coordination of the interdisciplinary course in English "Maritime Trade and Logistics: Theory and Applications"**, lasting one week and delivered in Barcelona in February at the Escola Europea Intermodal Transport (formerly Escola Europea di Short Sea Shipping), <https://www.2e3s.eu/>. The course is aimed at students of the master's degree in Management Engineering, Safety Engineering for transport logistics and production (formerly Safety Engineering: Transport and Territorial Systems), Computer Engineering and Economics and Port Maritime Management, and is managed in collaboration with prof. Hilda Ghiara of the Faculty of Economics of the University of Genoa and with Dr. Silvio Ferrando, Marketing and International Business Manager of the Western Ligurian Sea Port System Authority (ports of Genoa and Savona). Editions 2014, 2015, 2016, 2017, 2018, 2019.
- Role of **Associate Editor** for IEEE - ITSC 2018, the 21st IEEE International Conference on Intelligent Transportation Systems, November 4-7, Maui, Hawaii, USA.
- **Member of the Technical Committee** of the **IEEE Intelligent Transportation System Society on "Logistics"**, since April 2018.
- Role of **Associate Editor** for CTS 2018-15th IFAC Symposium on Control in Transportation Systems, June 6-8 2018, Savona, Italy.
- **Chair** role for the **ICCL 2017-International Conference on Computational Logistics**, Southampton, England, 18-20 October, 2017
- Conducting a **research period** of one month as a **visiting researcher** (June 2017) at the **Faculty of Economics and Business, Operations of the University of Groningen, The Netherlands**. Research topics: planning systems for the reduction of road congestion at port terminals and planning of transport networks in the context of Physical Internet.
- Delivery of the **seminar "Towards the Physical Internet Paradigm: a model for transportation planning in complex intermodal networks with empty returns optimization"** at the Faculty of Economics and Business of the University of Groningen in the Netherlands.
- Role of **organizer** of the **stream on "Port Operations"** for the **IFORS 2017 International Conference**, 21th Conference of the International Federation of Operational Research Societies, 17-21 July 2017, Quebec City, Canada.
- **Chair** role for the **EURO 2015 International Conference** - European Association of Operation Research, Glasgow, Scotland, 12-15 July 2015.
- Role of **SyDIC Representative at the ItaliaNa Society of System Dynamics SD** - System Dynamics Society. <http://www.systemdynamics.it>. From November 2011-2015.
- Publication of the article **"The giants of the sea, mathematical models for disposing of containers in the port of Genoa"** in the newspaper "La Repubblica" on 22 May 2015.
- **Reviewer of numerous articles** for conferences and international scientific journals, including Transportation Research part E: Logistics and Transportation Review, IEEE Transactions on Intelligent Transportation Systems, Maritime Policy and Management, European Journal of Operational Research, IJTEInternational Journal of Transport Economics, IEEE Control Systems Magazine, Operational Research, International Transactions in Operational Research
- **ESI - Europeans Summer Institute on Maritime Logistics** - advanced course on Maritime Logistics at the University of Brema, 3-17 June 2012.

- **Basic course on customs procedures**, delivered at Fresco, a shipping company of the GF group, January 2012, Savona.
- Drafting of the chapters "**La mancata programmazione logistica: i nodi del sistema**" and "**Appendice: Il nodo portuale; Porti Italiani e del Nord Europa**" of the book "**Trasporto Merci: Da Babele A Sistema**", Il Sole 24 ORE, authors: F. Rupi, P. Volta. 2011.
- Elaboration and drafting, in collaboration with Dr. Paolo Volta, of the Quaderno n. 18 "**Nodi e snodi del sistema logistico Italiano**" for the Freight Leaders Concil Association. Official presentation of the book on June 20, 2008 at the Rome Chamber of Commerce.
- Writing of two articles for the magazine **Logistica Management**, 2007 / 2008. Titles: "**Una sfida 'sostenibile' per vincere la partita della globalizzazione**" and "**I porti italiani tra innovazione e tecnologia**".
- Participation in the **ICAMES 2003** international competition on Engineering projects (3rd place win), University of Istanbul-Bogazici, May 10-17, 2003.
- **Intensive Educational Program In Advanced Logistic**, promoted by DIP-Department of Production Engineering of Genoa in collaboration with the Stevens Institute (New York 5-28 February), Boston College (Boston, 1-21 March) and University of Florida-Center of Simulation (Orlando March 22-April 15) with the acquisition and deepening of knowledge of advanced logistics and simulation support software. February - April 2003.
- 1996-1998: **Student Representative** of the Degree Course in Management Engineering, University of Genoa.

f) Research activity:

Participation in the following conferences:

1. "Il trasporto aereo Low cost", Bergamo 23 ottobre 2006.
2. "Benefiting from Globalisation: Transport Sector Contribution and Policy Challenges", 17th International ECMT/OECD Symposium on Transport Economics & Policy, Berlin, 25-27 October 2006.
3. "Le nuove sfide del XXI secolo: La logistica per l'impiantistica", convegno ANIMP, Milano, 22 novembre 2006.
4. "Logistica sostenibile: un progetto win-win per imprese ed ambiente", 2° convegno SOS Logistics - milano, 29 novembre 2006.
5. "Aspetti strutturali e prospettive dell'economia ligure", Genova 18-19 Gennaio 2007.
6. "Gli stati generali della portualità ligure", Genova 16 marzo 2007.
7. Airo 2007, XXXVIII annual conference of the italian operations research society. Optimization and decision sciences, Genova, 5-8 settembre, 2007.
8. "Logistica sostenibile: pubblico e privato possono vincere insieme", 3° convegno SOS Logistics- Genova, 30 novembre 2007.
9. "International Congress on Ports in Proximity: competition, cooperation and integration", Antwerp /Willemstad/Rotterdam: 5-7 December 2007.
10. "WSEAS '08, System Science and Simulation in Engineering", Venezia 21-23 November, 2008.
11. "ITFTC 2008, International Trade and Freight Transportation Conference", Aya Napa, Cyprus, 1-3 September.
12. "12th IFAC Symposium on Control in Transportation Systems (CTS'09)", Redondo Beach, CA, USA, September 2-4, 2009.
13. "The 31st IASTED International Conference on Modeling, Identification and Control – MIC2010", Innsbruck, Austria, February 15-17 2010.
14. "WSEAS-World Scientific and Engineering Academy and Society 2011", Prague, Czech Republic, September 26-28, 2011.
15. "7th International Conference on System of Systems Engineering (SoSE)", Genoa, Italy, July 16-19, 2012.
16. WCTRS-World Conference on Transport Research Society, Sig2 - Key developments in the port and maritime sector, Antwerp, Belgium 21-22 May 2012.
17. ESI EURO Summer Institute in Maritime Logistics, Bremen, Germany, June 3-15, 2012.
18. LOGMS-the 2012 International Conference on Logistics and Maritime Systems, Bremen, Germany, August 22-24, 2012.
19. 20th Conference of the International Federation of Operational Research Societies-IFORS, Barcelona, Spain 14-18 July, 2014.
20. IFAC'14- the 19th World Congress of the International Federation of Automatic Control, Cape Town, South Africa, 24-29 August 2014.
21. MTEC 2014 - International Maritime and Port Technology and Development Conference, Trondheim, Norway 27-29 October 2014.

22. AIRO Winter 2015 – Associazione Nazionale Ricercatori Operativi, Champoluc, Italy, 25-30 January 2015.
23. EURO 2015 – European Association of Operation Research, Glasgow, Scotland, 12-15 July 2015.
24. ICCL 2015 – International Conference on Computational Logistics, Delft, The Netherlands, 23-25 September 2015.
25. Jornadas Internacionales “Problemas De Localización Y Logística En El Transporte De Mercancías Peligrosas - Sevilla, Spain, 26-28 October 2015.
26. IFORS 21th Conference of the International Federation of Operational Research Societies, July 17-21, 2017, Quebec City, Canada.
27. SOLI 2017, IEEE International Conference on Service Operations and Logistics, and Informatics, September 18-20, 2017, Bari, Italy.
28. ICCL 2017 – 8th International Conference on Computational Logistics, October 18 - 20, 2017, Southampton, United Kingdom.
29. ODS 2019 – International Conference on Optimization and Decision Science, XLIX Annual Meeting of AIRO – Italian Operations Research Society, September 4-7, 2019, Genoa, Italy.
30. XXIII Scientific Seminar of SIDT (Società Italiana Docenti di Trasporti): Transportation Systems for smart, sustainable, inclusive and secure communities, October 11-13, 2019, Salerno, Italy.

Papers published in International Journals:

1. Caballini C., Puliafito P.P., Revetria R., Tonelli F. (2008) “*Simulation Based Design for a Railway Logistics Re-Engineering Project*”, International Journal of Mathematics and Computers in Simulation, Issue 2, Volume 2, 195-205, 2008.
2. Caballini C, Forgia C, Revetria R, Tonelli T (2008). Using Nested Simulation For Evaluating Next Period Workload Anticipation Capability Of A Control System. CASYS: INTERNATIONAL JOURNAL OF COMPUTING ANTICIPATORY SYSTEMS, ISSN: 1373-5411.
3. R. Revetria, C Caballini (2008). A System Dynamics Model For The Simulation Of A Non Multi Echelon Supply Chain: Analysis and Optimization Utilizing The Berkeley Madonna Software. INTERNATIONAL JOURNAL OF MATHEMATICAL MODELS AND METHODS IN APPLIED SCIENCES, vol. 2, p. 503-512, ISSN: 1998-0140.
4. Caballini C., Revetria R. (2009) “*A System Dynamics Model for The Simulation Of A Non Multi Echelon Supply Chain: Analysis and Optimization Utilizing The Berkeley Madonna Software*”, International Journal of Mathematics and Computers in Simulation, ISSN: 1790-2769.
5. Briano E., Caballini C., M.Mosca, Revetria R. (2009) “*A System Dynamics Decision Cockpit For A Container Terminal: The Case Of Voltri Terminal Europe*”, International Journal of Mathematics and Computers in Simulation, Issue 2, Volume 2, 195-205.
6. Caballini C., Gattorna E. (2009) “*The expansion of the port of Genoa*”, Transport and Communications Bulletin for Asia and the Pacific, No.78 Development of dry ports, United Nations ESCAP, Economic and Social Commission For Asia And The Pacific.
7. Briano E., Caballini C., Mosca R., Revetria R., Testa A., (2010) “*Study of an Emergency Situation Using 2D and 3D Simulation Models*”, WSEAS Transactions on Systems Issue 4, Volume 9, April 2010, ISSN: 1109-2777.
8. E. Briano, C. Caballini, P. Giribone, R.Revetria (2010). Two methodologies to support gas turbine power plant availability estimation: design of experiment and Montecarlo simulation. WSEAS TRANSACTIONS ON SYSTEMS, vol. 9, p. 937-947, ISSN: 1109-2777
9. Briano E., Caballini C., Giribone P., Revetria R., (2010) “*Resiliency and Vulnerability in Short Life Cycle Products' Supply Chains: a System Dynamics Model*”, WSEAS Transactions on Systems, Issue 4, Volume 9, April, 2010.
10. E. Briano, C. Caballini, R.Mosca, R.Revetria, A. Testa (2010) “*Guidelines and perspectives to enhance Italian port competitiveness*” WSEAS TRANSACTIONS ON SYSTEMS, vol. 9, p. 948-958, ISSN: 1109-2777
11. E. Briano, C. Caballini, R. Mosca, R. Revetria (2010) “*Using logistic redesigner (Lo.R.D.) software for designing and simulating a steel supply chain*”, WSEAS TRANSACTIONS ON SYSTEMS, vol. 9, p. 125-135, ISSN: 1109-2777
12. Ambrosino D., Caballini C., Siri S., (2013), “*A mathematical model to evaluate different train loading and stacking policies in a container terminal*”, MEL- Maritime Economics & Logistics, 15 (3), pp. 292-308.
13. Caballini C., Pasquale C., Sacone S., Siri S., (2014), “*An event-triggered receding-horizon scheme for planning rail operations in maritime terminals*”, IEEE Transactions on Intelligent Transportation Systems, vol. 15 (1), pp. 365-375.
14. Caballini C., Sacone S., (2014), “*Modeling and simulation of the rail port cycle*”, IEEE Systems Journal, pp. 1– 10, ISSN:1932-8184, DOI:10.1109/JSYST.2014.2298073.

15. Caballini C., Fioribello S., Sacone S., Siri S., (2016) "A MILP optimization problem for sizing port rail networks and planning shunting operations in container terminals", IEEE Transactions On Automation Science And Engineering, 99, pp.1-12, DOI: 10.1109/TASE.2016.2605149
16. Caballini C., Sacone S., Saeednia M. (2016), "Cooperation among truck carriers in seaport containerized transportation", Transportation Research-part E, Volume 93, pp. 38-56.
17. Anghinolfi D., Caballini C., (2017), "Planning and optimizing train loading operations in container terminals: A comparison between a mathematical model and a greedy heuristic", IJTE- International Journal of Transport Economics, Volume XLIV, No 1, pp. 49-70.
18. Caballini C., Rebecchi I., Sacone S. (2017), "Definition and comparison between different planning schemes for combining multiple trips in international container pick-up/delivery among ports and inland locations", under revision by IEEE Transaction on Intelligent Transportation Systems.
19. Ambrosino D., Caballini C., (2019), "New solution approaches for the Train Load Planning Problem", Euro Journal on Transportation and Logistics, 1-27, Springer.
20. Caballini C., Paolucci M., (2020) "A rostering approach to minimize health risks for workers: An application to a container terminal in the Italian port of Genoa", Omega, vol.95, September 2020, <https://doi.org/10.1016/j.omega.2019.08.001>.
21. Caballini C., M. D. Gracia, J. Mar-Ortiz, S. Sacone (2020) "A combined Data Mining - Optimization Approach to Manage Trucks Operations in Container Terminals with the use of a TAS. Application to an Italian and a Mexican port.", Transportation Research Part E, Volume 142, October 2020, 102054.

Chapters published in International Books:

1. Caballini C., Carpaneto L., Parola F. (2009) "Italian Port Authorities approaching the post-reform: the Ligurian Case", part of the book "Ports in proximity: essays on competition and coordination among adjacent seaports" by Ashgate international Editor, chapter 14.
2. Ambrosino D., Caballini C., (2014), "Congestion and truck service time minimization in a container terminal.", part of the book *Maritime-Port Technology and Development*, Edited by Sören Ehlers, Bjorn Egil Asbjornslett, Ornulf Jan Rodseth, and Tor Einar Berg CRC Press 2014. Pages 1–10. Print ISBN: 978-1-138-02726-8. eBook ISBN: 978-1-315-73162-9. DOI: 10.1201/b17517-2

Papers published in International Conferences Proceedings:

1. Caballini C., Figini F., Revetria R., Sanguineti M. (2003) "*DIROMATIC: DistRibuted Organizer, Manager & Agent Interactive Control*", Tech.Report of ICAMES, ENSO, Bogazici University, Istanbul, May.
2. Caballini C., Figini F., Revetria R., Sanguineti M. (2003) "*Mobile Agents Driven Simulator for Supporting Distributed Maintenance*", Proceedings of MAS2003, Bergoggi, Italy, October 2,4;
3. Caballini C., Puliafito P.P., Revetria R., Tonelli F. (2008) "A Generalized Discrete Event Model to Support Railway Freights Logistics: Methodology and Case Study", Proceedings of NAUN 08, Marathona Beach, Athens, June 1-3.
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26. Ambrosino D., Caballini C., Sacone S., Siri S., (2012), "*Modeling and comparison among different train loading and stacking policies in a container terminal*", WCTRS (World Conference on Transport Research Society) - Key developments in the port and maritime sector, Antwerp, 21-22 May.
27. Caballini C., Sacone S., Siri S. (2012), "*The rail port cycle: modelling, simulation and optimization*", ESI EURO Summer Institute 2012 in Maritime Logistics, Bremen, Germany, June 3-15.
28. Caballini C., Sacone S., Siri S. (2012), "*The port as a system of systems: a System Dynamics simulation approach*", 7th International Conference on System of Systems Engineering (SoSE), Genoa, Italy, July 16-19.
29. Caballini C., Sacone S., Siri S., (2012), "*Simulation and Optimization models for planning the rail port cycle*", LOGMS-the 2012 International Conference on Logistics and Maritime Systems, Bremen, Germany, August 22-24.

30. Ambrosino D., Caballini C., Paolucci M., Sacone S., Siri S., (2012), "*A train load planning problem in a container terminal: comparison among different loading policies*", Annual Conference of the Italian Operations Research Society, Vietri sul Mare, Italy, September 4-7.
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37. Caballini C., Sacone S., Saeednia M. (2014), "*Planning truck carrier operations in a cooperative environment*", IFAC '14- the 19th World Congress of the International Federation of Automatic Control, South Africa, August 2014.
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43. Caballini C., Rebecchi I., Sacone S. (2016), "*Optimizing multiple truck trips in a cooperative environment*", 19th IEEE International Conference on Intelligent Transportation Systems (ITSC 2016), November 1-4, Rio de Janeiro, Brazil.
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45. Caballini C., Napoli T., Paolucci M., (2017), "*A mathematical formulation to solve the staff rostering problem minimizing the risk derived from heavy loads handling and repetitive movements*", IFORS 21th Conference of the International Federation of Operational Research Societies, July 17-21, Quebec City, Canada.
46. Caballini C., Paolucci M., Sacone S. (2017), "*Towards the Physical Internet Paradigm: a model for transportation planning in complex intermodal networks with empty returns optimization*", ODS 2017 International Conference on Optimization and Decision Science, XLVII Annual Meeting of AIRO – Italian Operations Research Society, September 4-7, Sorrento, Italy.
47. Caballini C., Rebecchi I., Sacone S., (2017), "*Maximizing road carriers profit by combining trips and sizing the carrier coalition*", SOLI 2017, IEEE International Conference on Service Operations and Logistics, and Informatics, September 18-20, 2017, Bari, Italy.
48. Caballini C., Calore G., Sacone S., Siri S. (2017), "*Multi-period planning of road trips in a cooperative environment*", ITSC 2017 IEEE 20th International Conference on Intelligent Transportation Systems, October 16 - 19, Yokohama, Japan.

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50. Caballini C., Mar-Ortiz J., Sacone S., Gracia M. D. (2018), "*Optimal truck scheduling in a container terminal by using a Truck Appointment System*", IEEE – ITSC 2018, the 21st IEEE International Conference on Intelligent Transportation Systems, November 4-7, Maui, Hawaii, USA.
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52. Ambrosino D., Caballini C., Peirano L., Sacone S. (2019), "*A mathematical model to face congestion issues in container terminals through a non-mandatory Truck Appointment System*", International Conference on Optimization and Decision Science (ODS)-AIRO 2019, September 4-7, Genoa, Italy.
53. Agostino M., Caballini C., Dalla Chiara B., La Scala P.G. (2020), "*Compliance of maintenance and operational needs for trains: a simulation analysis to evaluate the impact of a flexible scheduling on local transport by rail*", submitted to 48th ETC-European Transport Conference, 9-11 September 2020, Milan, Italy.

Other Papers:

1. Agostino Matteo, Caballini Claudia, Dalla Chiara Bruno, "Il trasporto e la logistica in Italia durante l'emergenza Covid-19", *Logistica Management*, June 2020.
2. Agostino Matteo, Caballini Claudia, Dalla Chiara Bruno, "Trend di mobilità ed esigenze tecnologiche in Italia derivanti dall'emergenza sanitaria COVID-19", *Trasporti Pubblici*, July 2020.

WORK EXPERIENCES PREVIOUS TO 2010:

September 2006-March 2007

Support to the management and organization of the Master in "Management of Integrated Logistics Systems" (in English language), in partnership with CIELI and the ENI Enrico Mattei foundation, Perform - Permanent Training Center of the University of Genoa.

Activities: management of the relations with Italian and foreign teachers, analysis and verification of teaching material, English-Italian oral and written translations, correction of assessment tests.

September 2005 - September 2006

Process analyst for ICM - Information & Communication Management, Strategic and Organizational Consulting Company, in partnership with the Finmeccanica Group (Elsag S.p.A.).

Change Management Project for Union Switch & Signal (American branch of Ansaldo Signal, a Finmeccanica Group company): process reengineering and organizational support for the implementation of the integrated SAP R/3 management system in the HR - Human Resources area.

March 2005 - September 2005

Analyst in the Yield Management sector for the company Costa Cruises Spa. Activities carried out: evaluation and analysis for the optimization of the profitability of ships, systematic analysis of the main KPI's per ship / departure.

Analyst in the sector of optimization and re-engineering of business processes, management of company documentation and procedures, management of findings emerging from auditing activities for the Best 4 certification (Quality, Safety, Environmental Protection, Ethics).

June 2004- December 2004

Training internship in Marketing & Offer Management at Elsag S.p.A. of the Finmeccanica Group.

Management of the company's document offer (analysis of the market, competitors, internal organizational structure) and development of a Go-to-Market model.

EDUCATION:

- January 2007 - December 2009: **PhD in "Logistics, Transport and Territory"**, obtained on 9 April 2010 at CIELI - Italian Center of Excellence in Integrated Logistics, University of Genoa Via Bensa 1, 16124 Genoa (Italy) - www.cieli.unige.it PhD thesis: "Comparative study on the management and use of containerized rail transport in ports. Use of System Dynamics."
- 1998- 2004: **Degree in Management Engineering**, old system, achieved on 20 December 2004 at the University of Genoa. Final grade: 110/110 cum Laude.
- 1993-1998: "Leonardo da Vinci" high school, high school diploma. Rating: 58/60.
- Extra-curricular courses:
 - Basic Financial Course, organized by SACS - Studenti Associati Campus Savona - in collaboration with Bain Italia, DIP - Department of Production Engineering of Genoa and Gruppo Intesa BCI;
 - Management Information Technology and Process Reengineering, organized by the consulting company ICM-Information & Communication Management;
 - Business Strategy Course, organized by ValuePartners in collaboration with the DIP- Department of Production Engineering and SACS- Studenti Associati Campus Savona.

PERSONAL SKILLS AND COMPETENCES:

- Excellent knowledge of English language (read, written and spoken).
- Excellent interpersonal skills, team working and goal orientation.
- Excellent knowledge of the Windows environment and the Microsoft Office package: Word, Excel, Power Point, Access;
- Basic knowledge of Visual Basic, C ++, C #, Lingo programming languages.
- Knowledge of Arena, Stella, Simulink, Simul 8 and Powersim simulation software.
- Hobbies: travelling, reading, playing piano and guitar.
- In possession of a type B car license.

I authorize the processing of my personal data present in the CV pursuant to Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data" and the GDPR (EU Regulation 2016/679).

November 2020

*In faith,
Claudia Caballini*

