

Gianmaria Martini

Contacts

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Personal details

Born: May 22, 1960—Milan, Italy

Nationality: Italian

Google scholar: <https://scholar.google.com/citations?user=INFkOpOAAAAJ&hl=it&oi=ao>

ORCID: orcid.org/0000-0001-9503-4999

Current position

Professor of Applied Economics

Department of Economics

Università degli Studi di Bergamo

Via dei Caniana, 2

24127 Bergamo (BG) ITALY

Education

1985 LAUREA in Economics, Università Cattolica del Sacro Cuore, Milan, Italy

1989 MSc in Economics, University of York, UK

1996 PHD in Economics, University of York, UK

Areas of specialization

Transportation Economics; Health Economics; Efficiency and Productivity Analysis; Industrial Organization; Industrial Policy

Appointments held

2005- Full professor, Università degli studi di Bergamo

2001-2005 Associate professor, Università degli studi di Bergamo

1992-2001 Assistant professor, Università Cattolica del Sacro Cuore, Milan

1992 Assistant professor, Università degli Studi di Milano

Visiting position

- 2023 Toulouse School of Economics, Visiting research fellow, November
- 2022 Toulouse School of Economics, Visiting research fellow, February-March
- 2020 Toulouse School of Economics, Visiting research fellow, January-February

Teaching experience

Undergraduate courses

- 2025- Applied Economics, Università degli studi di Bergamo
- 2022- Industrial Economics, Università degli studi di Bergamo
- 2018-2024 Health Economics, Università degli studi di Bergamo-Università degli Studi di Milano-Bicocca
- 2002-2005 Economics of Imperfect Competition, Università degli studi di Bergamo
- 2001-2022 Principles of Economics, Università degli studi di Bergamo
- 1996-2000 Microeconomics, Università Cattolica del Sacro Cuore, Milan
- 1992-1996 Microeconomics (TA), Università Cattolica del Sacro Cuore, Milan
- 1992 Principles of Economics (TA), Università degli Studi di Milano
- 1990-1991 Microeconomics (TA), University of York, UK

Graduate courses

- 2025- Antitrust Policy, Università degli studi di Bergamo
- 2020-2022 Health Economics, Università degli studi di Bergamo
- 2001-2022 Industrial Economics, Università degli studi di Bergamo

PhD courses

- 2016-2019 Transportation Economics, PhD in Applied Economics and Management, Università degli studi di Bergamo-Università degli Studi di Pavia
- 2010-2015 Efficiency and Productivity Analysis, PhD in Economics and Management of Technology, Università degli studi di Bergamo-Università degli Studi di Pavia
- 2002-2010 Game Theory, PhD in Economics and Management of Technology, Università degli studi di Bergamo

Academic administrative experience

- 2020- Head of Department of Economics, Università degli studi di Bergamo
- 2022-2024 Member Elected, Senatus, Università degli studi di Bergamo
- 2020-2021 Member Elected, Senatus, Università degli studi di Bergamo
- 2018- Director Master in Hospital Management, Università degli studi di Bergamo
- 2018-2020 Dean, School of Engineering, Università degli studi di Bergamo
- 2016-2020 Director, PhD in Applied Economics and Management, Università degli studi di Bergamo-Università degli Studi di Pavia
- 2015-2020 Member of the Executive Board, Università degli studi di Bergamo
- 2012-2015 Member Elected, Senatus, Università degli studi di Bergamo
- 2010-2012 Head of the Department of Economics and Technology Management, Università degli studi di

Bergamo

Professional experience

- 2016-
2013-
2025
2023
2021
2020
2018-2021
2018
2016-2018
2013
2010-2016
2008-2010
2007-2010
2001-2006
- Air Transport Research Society – ATRS, Vice President for education
Member of ATRS Executive Committee
Air Navigation Service Providers (ANSP): Advice on benchmarking of ANSPs and EU-wide cost targets, report for EY and European Commission
Air Navigation Service Providers (ANSP): Advice on benchmarking of ANSPs and EU-wide cost targets, report for EY and PRB
Analisi costi- benefici per il prolungamento della linea tramviaria T1 da Albino a Verdello, TEB Bergamo
Scientific coordination of the Cost-benefit analysis for the Ministry of Infrastructure and Transportation on the electric bus line Bergamo–Dalmine–Verdello
Scientific coordination of the Cost-benefit analysis for the Ministry of Infrastructure and Transportation on the tramway T2 Bergamo–Villa d’Almè
Member of the National Committee for Academic Qualification (ASN), Italian Ministry for Research and University
Board member for VLUHR-Belgium Flanders Region, Re-assessment of C-MAT, Advanced master in Port and aviation economics and management, University of Antwerp, Belgium
External examiner, Master in Aviation Management, Cranfield University (UK)
Chairman of the Organizing Committee, 2013 ATRS World Conference, Bergamo, July 26-29
Member of the executive board of SIEPI (Italian Society of Industrial Economics and Policy)
Member of Regione Lombardia Advisory Board for Trade Fair and Markets Office
Research fellow, International Center for Competitiveness Studies in the Aviation Industry, Bergamo
Member of the Scientific Committee “Osservatorio Energia”, ref. Ricerche per l’economia e la finanza, Milan

Ph.D. Supervision and Committees

Thesis supervision

- 2023
2019
2018
2014
2012
2011
- "Competition and cooperation in the airline industry", Ph.D. student: Andrea Gualini.
"Three essays in Health Economics ", Ph.D. student: Caterina Sturaro.
"Externalities in the aviation industry ", Ph.D. student: Gianmarco Andreana.
"Patient choice: two essays and new statistical software package", Ph.D. student: Daniele Spinelli.
"Sustainability and Economics of Aviation Industry", Ph.D. student: Pak Lam Lo.
"The new entrepreneurial opportunity recognition process. Assessing the role of public intervention on the electricity market", Ph.D. student: Loredana Sasso.
"Efficiency and Environment in the Aviation Sector", Ph.D. student: Nicola Volta.
"Three essays in transition economics", Ph.D. student: Annageldy Arazmuradov.
"Multi-Product Firms and Quality Differentiation: Product Bundling and Content Provision in Two-Sided Media Markets", Ph.D. student: Anna D’Annunzio.
"Measuring Airports’ Technical Efficiency: Evidence from Italy", Ph.D. student: Davide Scotti.

- 2010 "Essays on trust", Ph.D. student: Maurizio Cortesi.
 2009 "Efficiency and opportunistic behaviour induced by prospective payment system in the hospital sector", Ph.D. student: Giuditta Callea.

Committees for final defense

- 2025 Member of Final Jury, PhD in Aviation management and economics, Thesis on Three Essays on the Heterogenous Impact of High-Speed Rail on Aviation, Ph.D. candidate Hongy Gu, The Hong Kong Polytechnic University (Hong Kong)
 2023 Member of Final Jury, PhD in Aviation management and economics, Thesis on Airline Competition: Empirical Insights for European and International Markets, Ph.D. candidate Hanxiang Zhang, The Hong Kong Polytechnic University (Hong Kong)
 2022 Member of Final Jury, PhD in Mathematics and Applications, Thesis on Essay on Industrial Organization applied to Air Transport, Ph.D. candidate Shangrong Chen, Toulouse School of Economics (France)
 2020 Member of Final Jury, PhD in Economics, Thesis on Handling Measurement Errors in Stochastic Frontier Analysis, Ph.D. candidate Adit Kivel, Hebrew University of Jerusalem (Israel)
 2020 Member of Final Jury, PhD in Economics, Thesis on Air Cargo Competitiveness and European Airports: Markets and Strategies, Ph. D. candidate Thoman Van Asch, University of Antwerp (Belgium)

Editorial activity

Editorship

- 2022- Editor-in-Chief, Journal of Air Transport Management
 2023- Member of Editorial Board, Journal of Air Transportation Research Society
 2021 Guest Editor, Special Issue on Air Transportation: Strategies and Policies, Transportation Research Part A
 2020 Guest Editor, Special Issue on 2020 ATRS Conference, Journal of Air Transport Management
 2019 Guest Editor, Special Issue on 2019 ATRS Conference, Journal of Air Transport Management
 2018 Guest Editor, Special Issue on Current Policy Issues in Air Transportation and selected papers from 2018 ATRS Conference, Transportation Research Part A
 Guest Editor, Special Issue on 2018 ATRS Conference, Journal of Air Transport Management
 2017 Guest Editor, Special Issue on 2017 ATRS Conference, Transportation Research Part A
 2014 Guest Editor, Special Issue on 2013 ATRS Conference, Transport Policy
 2011-2021 Associate Editor, Journal of Air Transport Management
 2010-2015 Member of the Editorial Board of Rivista di Economia e Politica Industriale
 1998-2001 Editor of Osservatorio sull'attività dell'Autorità Garante della Concorrenza e del Mercato, Rivista di Economia e Politica Industriale

Referee for:

Managerial and Decision Economics, Research in Transportation Economics, Papers in Regional Science, Transportation Research Part A, Italian Economic Journal, Regional Studies, Spatial Economic Analysis, Annals of Tourism Research, Applied Economics, Case Studies on Transport

Policy, Journal of Econometrics, Health Economics, International Journal of Sustainable Transportation, Transportation Research Part B, Transportation Research Part D, Journal of Productivity Analysis, European Journal of Operation Research, European Journal of Law and Economics, International Journal of Industrial Organization, Transportation Research Part E, International Economics and Economic Policy, Energy Economics, Health Policy, Regional Science and Urban Economics, Journal of Air Transport Management, Journal of Optimization Theory and Applications, Transportmetrica, Empirical Economics, The Economic Journal, Rivista Internazionale di Scienze Sociali, Rivista di Economia e Politica Industriale, Australian Economic Papers, L'Industria, Journal of Economic Behavior and Organization, Researches in Economics, Bulletin of Economic Research, Economic Modelling, Economia Politica

Publications & Talks

JOURNAL ARTICLES

- 20025 "The Effects of LCCs Subsidies on the Tourism Industry" (with C. Bontemps and F. Porta), forthcoming in *International Journal of Industrial Organization*, <https://doi.org/10.1016/j.ijindorg.2025.103242>.
- 2024 "Alleviating loneliness during COVID-19: The impact of neighbor cohesion and social connections in England" (with P. Bello, C. Di Novi, C., and C. Sturaro), *Socio-Economics Planning Sciences*, 93, <https://doi.org/10.1016/j.seps.2024.101913>.
 "Pricing effects of code-sharing in Africa" (with A. Gualini, L. Ogliari and D. Scotti), *Economics of Transportation*, 39, <https://doi.org/10.1016/j.ecotra.2024.100369>.
 "Are low cost carriers airfares still lower? A comparison with full service carriers in Europe" (with A. Gualini and F. Porta), *Journal of Air Transport Research Society*, 2, <https://doi.org/10.1016/j.jatrs.2024.100012>.
 "Airport noise assessment and mitigation: A simple and flexible methodology" (with G. Andreaana, M. Grampella and D. Scotti), *Case Studies on Transport Policy*, 17, <https://doi.org/10.1016/j.cstp.2024.101240>.
- 2024 "Persistent and transient productive efficiency in the African airline industry" (with F. Porta and D. Scotti), *Journal of Productivity Analysis*, 61, 259-278.
 "The impact of informal and formal care disruption on older adults' psychological distress during the COVID-19 pandemic in UK" (with C. Di Novi and C. Sturaro), *Economics and Human Biology*, <https://doi.org/10.1016/j.ehb.2023.101242>.
- 2022 "Is there a bias in patient choices for hospital care? Evidence from three Italian regional health systems" (with R. Levaggi and D. Spinelli), *Health Policy*, <https://doi.org/10.1016/j.healthpol.2022.04.009>.
 "The beaten paths effect on patient inter-regional mobility: An application to the Italian NHS" (with P. Berta, D. Spinelli and G. Vittadini), *Papers in Regional Science*, <http://doi.org/10.1111/pirs.12678>, 101(4), 945-977.
- 2021 "The disruptive impact of COVID-19 on air transportation: An ITS econometric analysis" (with G. Andreaana, A. Gualini, F. Porta and D. Scotti), *Research in Transportation Economics*, <https://doi.org/10.1016/j.retrec.2021.101042>.
 "Airline Competition and LCCs in the North Atlantic Market" (with M. Dresner, A. Gualini, and M. Valli), *Journal of Transport Economics and Policy*, 55(4), 261-282.
- 2020 "Air connectivity and spatial effects: regional differences in Europe" (with A. Antunes, F. Porta and D. Scotti), *Regional Studies* 54, 1748-1760, <https://doi.org/10.1080/00343404.2020.1811111>.

2020.1768231.

"The strange case of less C-sections: Hospital ownership, market concentration, and DRG-tariff regulation" (with P. Berta, M. Piacenza and G. Turati), *Health Economics* 29, 30-46, <https://doi.org/10.1002/hec.4110>.

"Persistent and temporary inefficiency in airport cost function: An application to Italy" (with D. Scotti, D. Viola and G. Vittadini), *Transportation Research Part A* 132, 999-1019, <https://doi.org/10.1016/j.tra.2019.12.016>.

"The Determinants of CO₂ emissions of air transport passenger traffic: An analysis of Lombardy (Italy)" (with P.K. Lo, F. Porta and D. Scotti), *Transport Policy* 91, 108-119, <https://doi.org/10.1016/j.tranpol.2018.11.010>.

2019 "Airline regulation and common markets in Sub-Saharan Africa" (with K. Button, D. Scotti and N.Volta), *Transportation Research Part E* 129, 81-91, <https://doi.org/10.1016/j.tre.2019.07.007>.

"Air transport Networks of Global Integrators in the More Liberalized Asian Air Cargo Industry" (with P. Malighetti, R. Redondi and D. Scotti), *Transport Policy* 80, 12-23, <https://doi.org/10.1016/j.tranpol.2019.04.021>.

"Integrators' air transport networks in Europe" (with P. Malighetti, R. Redondi and D. Scotti), *Network and Spatial Economics* 19, 557-581, <https://doi.org/10.1007/s11067-018-9390-5>.

2018 "The impact of air transportation on trade flows: A natural experiment on causality applied to Italy" (with A. Brugnoli, A. Dal Bianco and D. Scotti), *Transportation Research Part A* 112, 95-107, <https://doi.org/10.1016/j.tra.2018.01.010>.

"Administrative data and health outcome assessment: Methodology and application" (with G. Vittadini), *Contribution to Economic Analysis* 294, 285-304, <https://doi.org/10.1108/S0573-855520180000294014>.

2017 "Determinants of transient and persistent hospital efficiency: The case of Italy" (with R. Colombi and G. Vittadini), *Health Economics* 26, 5-22, <https://doi.org/10.1002/hec.3557>.

"The impact of technology progress on aviation noise and emission" (with M. Grampella, P.K. Lo and D. Scotti), *Transportation research Part A* 103, 525-540, <https://doi.org/10.1016/j.tra.2017.05.022>.

"The redistributive effects of copayment in outpatient prescriptions: evidence from Lombardy" (with P. Berta, R. Levaggi and S. Verzillo), *BMC Health Service Research* 17, 336-346, <https://doi.org/10.1186/s12913-017-2248-6>.

"Determinants of airports' environmental effects" (with M. Grampella, D. Scotti, F. Tassan and G. Zambon), *Transportation Research Part D* 50, 327-344, <https://doi.org/10.1016/j.trd.2016.11.007>.

"Fare elasticities of demand for direct and indirect flights in sub-Saharan Africa" (with K. Button, D. Scotti and N. Volta), *Applied Economics Letters* 24, 523-526, <https://doi.org/10.1080/13504851.2016.1208346>.

2016 "The association between asymmetric information, hospital competition and quality of health-care" (with P- Berta, F. Moscone and G. Vittadini), *Journal of the Royal Statistical Society-Series A (Statistics in Society)* 179, 907-926, <https://doi.org/10.1111/rssa.12214>.

"Baggage Fees, Operational Performance and Customer Satisfaction in the US Air Transport Industry" (with M. Dresner and D. Scotti), *Journal of Air Transport Management* 55, 139-146, <https://doi.org/10.1016/j.jairtraman.2016.05.006>.

"The factors affecting pollution and noise environmental costs of the current aircraft fleet: An econometric analysis" (with M- Grampella, D. Scotti and G. Zambon), *Transportation Research*

- Part A* 92, 310-325, <https://doi.org/10.1016/j.tra.2016.06.013>.
- 2015 "Impacts of the Arab Spring on trade in airline services" (with K. Button and D. Scotti), *Applied Economics Letters* 23, 532-535, <https://doi.org/10.1080/13504851.2015.1085632>.
- "African Decolonization and Air Transportation" (with K. Button and D. Scotti), *Journal of Transport Economics and Policy* 49, 626-639.
- "Economic factors affecting the registration of lower CO₂ emitting aircraft in Europe" (with K. Button, A. Brugnoli and D. Scotti), *Transportation Research Part D* 38, 117-124, <https://doi.org/10.1016/j.trd.2015.05.001>.
- "Connecting African urban areas: airline networks and intra-Sub-Saharan trade" (with K. Button, A. Brugnoli and D. Scotti), *Journal of Transport Geography* 42, 84-89, <https://doi.org/10.1016/j.jtrangeo.2014.11.007>.
- "Crescita e sostenibilità ambientale degli aeroporti italiani dopo la liberalizzazione del settore" (with D. Scotti), *Statistica e Società* 34-38.
- 2014 "The effectiveness-efficiency trade-off in health care: the case of hospitals in Lombardy" (with P. Berta, J. Mullahy and G. Vittadini), *Regional Science and Urban Economics* 49, 217-231, <https://doi.org/10.1016/j.regsciurbeco.2014.02.003>.
- "Closed-Skew Normality in Stochastic Frontiers with Individual Effects and Long/Short Run Efficiency" (with R. Colombi, S. Kumbhakar and G. Vittadini), *Journal of Productivity Analysis* 42, 123-136, <https://doi.org/10.1007/s11123-014-0386-y>.
- "Incorporating negative externalities into productivity assessments of US airports" (with M. Dresner, D. Scotti and C. Yu), *Transportation Research Part A* 62, 39-53, <https://doi.org/10.1016/j.tra.2014.02.008>.
- "Psychological wellbeing, proactive attitude and happiness effects of whole-body vibration versus multi-component training in aged women: study protocol for a randomized controlled trial" (with A. Compare, C. Zarbo, E. Marin, A. Meloni, J.A. Rubio-Arias, R. Berenguì, E. Grossi, E. Shonin and P.E. Alcatraz), *Trials* 15, 177-182.
- "Il costo sociale della mobilità: un'applicazione al sistema locale di Bergamo" (with P.L. Lo, D. Scotti and S. Semperboni), *Statistica e Società* 1, 34-37.
- "Igiene e infezioni ospedaliere: un nesso quantificabile" (with G. Vittadini), *Statistica e Società* 2, 24-29.
- "Determinants of total factor productivity in former Soviet Union Economies: A stochastic frontier approach" (with A. Arazmuradov and D. Scotti), *Economic Systems* 38, 115-135, <https://doi.org/10.1016/j.ecosys.2013.07.007>.
- 2013 "Including local air pollution in airport efficiency assessment: A hyperbolic stochastic approach" (with D. Scotti and N. Volta), *Transportation Research Part D* 24, 27-36, <https://doi.org/10.1016/j.trd.2013.05.002>.
- "Measuring the environmental efficiency of the global aviation fleet" (with N. Adler and N. Volta), *Transportation Research Part B* 53, 82-100, <https://doi.org/10.1016/j.trb.2013.03.009>.
- "The influence of fleet mix, ownership and LCCs on airports' technical/environmental efficiency" (with A. Manello and D. Scotti), *Transportation Research Part E* 50, 37-52, <https://doi.org/10.1016/j.tre.2012.10.005>.
- 2012 "The effect of a law limiting upcoding on hospital admissions: Evidence from Italy" (with P. Berta, G. Callea and G. Vittadini), *Empirical Economics* 2, 563-582, <https://doi.org/10.1007/s00181-012-0548-6>.
- "The impact of airport competition on technical efficiency: A Stochastic Frontier Analysis applied to Italian airports" (with P. Malighetti, D. Scotti and N. Volta), *Journal of Air Transport*

- 2011 *Management* 22, 9-15, <https://doi.org/10.1016/j.jairtraman.2012.01.003>.
- 2011 "Irreversible R&D investment with inter-firms spillovers" (with G. Femminis), *Journal of Economic Dynamic and Control* 35, 1061-1090, <https://doi.org/10.1016/j.jedc.2011.03.005>.
- 2010 "First Mover Advantage in a Dynamic Duopoly with Spillover" (with G. Femminis), *The B.E. Journal of Theoretical Economics (Contributions)* 10, article 49, <https://doi.org/10.2202/1935-1704.1658>.
- "Spillovers, disclosure lags, and incentives to innovate. Do oligopolies over-invest in R&D?" (with G. Femminis), *Rivista Internazionale di Scienze Sociali* 118, 47-76.
- "Potere di mercato e distribuzione dei profitti nella filiera del trasporto aereo" (with D. Scotti), *Mercato Concorrenza e Regole*, 10, 173-210.
- "The impact of Upcoding, Cream Skimming and Readmissions on the Italian hospitals efficiency: A population-based investigation" (with P. Berta, G. Callea and G. Vittadini), *Economic Modelling* 27, 812-821, <https://doi.org/10.1016/j.econmod.2009.11.001>.
- "Strategic Choice between Process and Product Innovation under Different Competitive Regimes" (with L. Filippini), *International Journal of Game Theory* 12, 139-159, <https://doi.org/10.1142/S0219198910002568>.
- 2007 "An empirical investigation on the efficiency, capacity and ownership of Italian airports" (with P. Malighetti, S. Paleari and R. Redondi), *Rivista di Politica Economica* 47, 157-188.
- 2004 "Antitrust Policy and Price Collusion: Public Agencies versus Delegation" (with C. Rovesti), *Recherches Economiques de Louvain- Louvain Economic Review* 70, 127-151, <https://doi.org/10.1017/S0770451800011441>.
- 2003 "Relazioni verticali e determinazione del prezzo nella distribuzione di carburanti in Italia" (with G. Colangelo), *Rivista di Politica Economica* 93, 113-153.
- "Complexity and Individual Rationality in a Price-setters Supergame: An Experimental Study", *Research in Economics* 57, 345-370, <https://doi.org/10.1016/j.rie.2003.07.001>.
- "Tacit Collusion and Non-Uniform Prices", *Australian Economic Papers*, 42, 1-17, <https://doi.org/10.1111/1467-8454.00182>.
- 2000 "Price Competition with Discounting and Kinked Demand: An Experimental Study", *Rivista Internazionale di Scienze Sociali* 108, 377-408.
- 2000 "Cultura della concorrenza, identificazione di un'intesa implicita, merger guidelines", *Economia e Politica Industriale*, 99, 207-219.
- 1998 "La politica della concorrenza: fatti stilizzati, teoria, evidenza empirica italiana", *Rivista Internazionale di Scienze Sociali*, 106, 327-354.
- 1996 "Intese esplicite e restrizioni verticali: il caso SIPAC", *Economia e Politica Industriale* 91, 183-211.
- 1995 "Politica Antitrust e informazione asimmetrica: un equilibrio sequenziale", *Economia Politica* 12, 423-444.
- 1994 "Testing Different Theories: An Experimental Approach to Bargaining Games", *Rivista Internazionale di Scienze Economiche e Commerciali* 42, 163-188.
- 1993 "Oligopolio collusivo tacito ed equilibri con instabilità nel prezzo", *Il Giornale degli Economisti e Annali di Economia* 52, 161-178.
- 1992 "La relazione profittabilità – concentrazione nell'industria manifatturiera italiana: un modello ad equazioni simultanee", *L'Industria* 13, 685-701.
- 1987 "Interpretazioni dello sviluppo industriale del Mezzogiorno: contraddizioni e tendenze emergenti negli anni ottanta", *Rivista Internazionale di Scienze Sociali* 95, 477-510.

BOOKS

- 2021 *Air transport and regional development methodologies* (edited by A. Graham, N. Adler, O. Betancor, V. Bilotkach, E.J. Calderón, G. Martini, H.-M. Niemeier, and A.P. Antunes), London and New York: Routledge-Taylor & Francis Group.
- Air transport and regional development policies* (edited by A. Graham, N. Adler, O. Betancor, V. Bilotkach, E.J. Calderón, G. Martini, H.-M. Niemeier, and A.P. Antunes), London and New York: Routledge-Taylor & Francis Group.
- Case studies in air transport and regional development* (edited by A. Graham, N. Adler, O. Betancor, V. Bilotkach, E.J. Calderón, G. Martini, H.-M. Niemeier, and A.P. Antunes), London and New York: Routledge-Taylor & Francis Group.
- 2018 *The Economics and Political Economy of African Air Transport* (edited with K. Button and D.Scotti), New York: Routledge-Taylor & Francis Group.
- 2016 *Sussidiarietà e politiche industriali* (edited with P. Garrone), Milano: Fondazione per la Sussidiarietà.
- 2015 *Sussidiarietà e spesa pubblica* (edited), Milan: Fondazione per la Sussidiarietà.
- 1999 *Razionalità individuale e decisioni strategiche. Problemi di Microeconomia* (with G. Femminis), Turin: Giappichelli Editore.
- 1989 *Indicatori economici ed economie locali* (with E. Pontarollo), Rome: Istituto Tagliacarne.

OTHER PUBLISHED PAPERS

- 2023 "Inflazione", in *I Quaderni della Gazzetta dello Sport*, volume 1, Milano, RCS.
- 2022 "The air transportation vertical channel, the global value added, and the role played by private versus public control", in *The air transportation industry: Economic conflict and competition*, Series *Contemporary issues in air transport*, Amsterdam, Oxford, Cambridge: Elsevier.
- 2021 "How to estimate the social costs of airport negative externalities: a case study on Milan Bergamo airport" (with M. Grampella and D. Scotti), in *Air transport and regional development methodologies* (edited by A. Graham, N. Adler, O. Betancor, V. Bilotkach, E.J. Calderón, G. Martini, H.-M. Niemeier, and A.P. Antunes), London and New York: Routledge-Taylor & Francis Group.
- "Econometric approaches to the study of air transport impacts on regional development: main methods and results" (with A.P. Antunes), in *Air transport and regional development methodologies* (edited by A. Graham, N. Adler, O. Betancor, V. Bilotkach, E.J. Calderón, G. Martini, H.-M. Niemeier, and A.P. Antunes), London and New York: Routledge-Taylor & Francis Group.
- "The evolution of regional air transport connectivity in Europe: A comparison between remote and central areas, in *Case studies in air transport and regional development* (edited by A. Graham, N. Adler, O. Betancor, V. Bilotkach, E.J. Calderón, G. Martini, H.-M. Niemeier, and A.P. Antunes), London and New York: Routledge-Taylor & Francis Group.
- 2018 "The African air transport network" (with K. Button and D. Scotti), in *The Economics and Political Economy of African Air Transport* (edited by K. Button and D.Scotti), New York: Routledge-Taylor & Francis Group.
- "Air transport in Africa" (with D. Scotti), in *Air Transport Liberalization: A Critical Assessment* (edited by K. Button and D.Finger), Cheltenham (UK) and Northampton (US): Edgar Elgar Publishing Ltd.
- 2016 "Personalità dell'imprenditore e risultati d'impresa: alcuni interrogativi per la teoria dell'impresa e per le politiche pubbliche" (with P. Garrone), in *Sussidiarietà e politiche industriali* (edited by P. Garrone and G. Martini), Milan: Fondazione per la Sussidiarietà.
- "Caratteristiche dell'imprenditore e risultati d'impresa: obiettivi dell'indagine" (with P. Garrone

- and T. Minola), in *Sussidiarietà e politiche industriali* (edited by P. Garrone and G. Martini), Milan: Fondazione per la Sussidiarietà.
- 2015 "Spesa pubblica e sussidiarietà" (with M. Trabucchi), in *Sussidiarietà e spesa pubblica* (edited by G. Martini), Milan: Fondazione per la Sussidiarietà.
- "La spesa pubblica in Italia" (with D. Scotti), in *Sussidiarietà e spesa pubblica* (edited by G. Martini), Milan: Fondazione per la Sussidiarietà.
- "Il dettaglio della spesa pubblica in Italia: il modello centralizzato è l'unico adottabile?", in *Sussidiarietà e spesa pubblica* (edited by G. Martini), Milan: Fondazione per la Sussidiarietà.
- "Sussidiarietà verticale e crescita: un nesso quantificabile" (with G. Turati), in *Sussidiarietà e spesa pubblica* (edited by G. Martini), Milan: Fondazione per la Sussidiarietà.
- 2010 "Le politiche per la concorrenza e per l'industria tra l'Italia e l'Europa" (with G. Colangelo), in *Le politiche industriali alla prova del futuro: analisi per una strategia nazionale*, (edited by P. Bianchi and C. Pozzi), Bologna (I): Il Mulino.
- 2008 "Teoria economica e razionalità" (with R. Palmieri and E. Rigotti), *Atlantide*, 14, 73-78.
- "La struttura produttiva" (with G. Callea), in *Il futuro del territorio* (edited by G. Dossena and S. Paleari), Bergamo (I): Bergamo University Press.
- 2007 "Sussidiarietà e modello economico: la specificità italiana", in *Che cos'è la sussidiarietà: un altro nome della libertà* (edited by G. Vittadini), Milan: Guerini e associati.
- 2005 "Investimento in capitale umano e sviluppo imprenditoriale" (with G. Femminis), in *Capitale umano: la ricchezza dell'Europa* (edited by G. Vittadini), Milan: Guerini e associati.
- 1998 "Struttura dimensionale dell'industria italiana e politica della concorrenza" (with M. Grillo), in *Fare ricerca economica e sociale: scritti per i 25 anni dell'IRS in ringraziamento al primo presidente Pippo Ranci*, Milan: IRS.
- 1989 "Distretti industriali e tessuti economici circostanti: il caso di Como" (with E. Pontarollo), in *Distretti e sistemi produttivi alla soglia degli anni '90* (edited by F. Gobbo), Milan: Franco Angelo.

Working papers

- "Airlines' Cooperation on Quality: The Impact of Code-Sharing on Air Service Quality in African Aviation Markets" (with A. Gualini, L. Ogliari, and D. Scotti), currently under review in *Review of Industrial Organization*.
- "Welfare effects of electric aircraft using an econometric structural model" (with A. Gualini and D. Scotti).
- "Effects of Airline Cooperation with local and global markets".

Invited seminars, lectures and keynotes

- 2025 "Effects of Airline Cooperation with local and global markets", PolyU Hong Kong.
- 2024 "Empirical IO in Aviation: Nested Logit Model, Marginal Costs and Counterfactual Experiments", ATRS China Chapter, Chengdu. "Making aviation more sustainable", ATRS China Chapter, Beihang University, Beijing. "Airlines' Cooperation on Quality: The Impact of Code-Sharing on Air Service Quality in African Aviation Markets", PolyU Hong Kong.
- 2023 "Competition and cooperation among airlines", C-MAT University of Antwerp.
- "Pricing Effects of Airline Cooperation on the Intra-African Air Routes", The Hong Kong Poly-

technic University.

"Tourism and aviation: the impact of LCCs subsidies and fuel costs using a structural model", Bozen Free University.

"Cooperation and pricing in the aviation sector", invited keynote lecture, Hiroshima University.

2022- "Productivity and Efficiency using SFA", Toulouse School of Economics

"Competition and cooperation among airlines", C-MAT University of Antwerp.

2021 "Post-COVID disruptions and solutions in air transport", Airport Observatory, 2023 Annual Meeting (online) "Benchmarking in air transportation", ENAC Toulouse.

"Competition and cooperation among airlines", C-MAT University of Antwerp.

"Airport benchmarking", GARS Summer School online.

2020 "Airport benchmarking", GARS Summer School online.

2019 "The role of government in aviation: regulation or deregulation?", Antwerp Transport Colloquium.

2018 "Stochastic frontier analysis", ATARD COST Training School, Poznan.

2017 "The Italian airport system: performances and trends", Policy Forum on South Korean airports, Daegu.

2015 "Aviation contribution to trade", Antwerp Transport Colloquium.

Conference presentations

2025 28th ATRS Conference, Hong Kong.

Transport Research Symposium, Rotterdam.

6th SOAR Conference, Bari.

XXIII SIEPI Conference, Boulogne.

2024 5th SOAR Conference, Luxembourg.

27th ATRS Conference, Lisbon.

ITEA Annual Conference, Leeds.

XXII SIEPI Conference, Bergamo.

2023 2023 EAC Conference, Luxembourg.

9th International Workshop on Efficiency in Education, Health and other Public Services, Madrid (Spain).

4th SOAR Conference, Toulouse (France).

ITEA Annual Conference, Santander (Spain).

26th ATRS Conference, Kobe (Japan).

9th International Workshop on Efficiency, Education, Health and other Public Services, Madrid (Spain).

2022 31^{trd} SOAR Conference, Bergamo (Italy).

ITEA 2022 Annual Conference, Toulouse (France).

25th ATRS Conference, Antwerp (Belgium).

43rd AISRE Conference, Milan (Italy).

24th SIET Conference, Varese (Italy).

63rd SIE Conference, Turin (Italy).

2022 AMEC Conference, Heilbronn (Germany).

2022 Workshop on Industrial Organization, Passo del Tonale (Italy).

2021 XXII SIET Conference, online.

XX SIEPI Workshop, online.

62nd SIE Conference, online.

- 2011 EWEPa 2011, Verona (Italy).
DEA Conference, Thessaloniki (Greece).
- 2010 VIII International Industrial Organization Conference, Vancouver (Canada).
II Health Econometrics Workshop, Rome (Italy).
2010 ATRS Conference, Porto (Portugal).
GARS Workshop, Dresden (Germany).
- 2009 VII International Industrial Organization Conference, Boston (US).
Swiss Industrial Organization Day Bern (Switzerland).
Workshop on Industrial Organization: Theory, Empirics and Experiments, Lecce (Italy).
XX Riunione Scientifica Annuale AIIG, Udine (Italy).
- 2008 VI International Industrial Organization Conference, Washington (US).
III Kuhmo-Nectar Conference, Amsterdam (Netherlands).
35th Annual EARIE Conference, Toulouse (France).
1st Health Econometrics Workshop, Milan (Italy).
- 2007 Annual Meeting Swiss Society of Economics and Statistics, St. Gallen (Switzerland).
V International Industrial Organization Conference, Savannah (US).
34th EARIE Conference, Valencia (Spain).
- 2006 Annual Meeting Swiss Society of Economics and Statistics, Lugano (Switzerland).
- 2005 XVI Riunione Annuale AIIG, Bergamo (Italy).
32nd Annual EARIE Conference, Porto (Portugal).
- 2004 31st Annual EARIE Conference, Berlin (Germany).
- 2003 7th EUNIP Annual Conference, Porto (Portugal).
- 2002 6th EUNIP Annual Conference, Turku (Finland).
Workshop on Innovation and Regulation, Bergamo (Italy).
29th EARIE Conference, Madrid (Spain).
- 2001 28th EARIE Conference, Dublin (Ireland).
- 2000 Workshop on Economics and Philosophy, Bergamo (Italy).
28th EARIE Conference, Lausanne (Switzerland).
Workshop on Innovation and Product Differentiation, Bergamo (Italy).
- 1999 26ⁱ EARIE Conference, Turin (Italy).
Conference on Strategic Rationality in Economics, Rimini (Italy).
- 1998 Conferenza Annuale di discussione sulla Relazione dell'attività dell'Autorità Garante della Concorrenza e del Mercato, Milan (Italy).
- 1997 XI Italian Conference on Game Theory and Applications, Milan (Italy).
- 1996 23rd EARIE Conference, Vienna (Austria).
IV Conferenza Italiana di Economia Sperimentale, Naples (Italy).
- 1993 VII Italian Conference on Game Theory and Applications, Genoa (Italy).
I Conferenza Italiana di Economia Sperimentale, Siena (Italy).
- 1992 VI Italian Conference on Game Theory and Applications, Pisa (Italy).