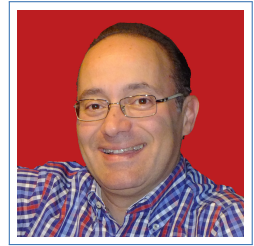


# Giovanni Giallombardo

## Curriculum Vitae

✉ DIMES - Università della Calabria  
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### Current position

- 11/2012–present **Senior Researcher with tenure**, *Operations Research*.  
Dipartimento di Ingegneria Informatica, Modellistica, Elettronica e Sistemistica  
Università della Calabria
- 11/2020–present **National Scientific Qualification**.  
Qualified for Full Professorship in Operations Research
- 09/2018–present **National Scientific Qualification**.  
Qualified for Associate Professorship in Operations Research

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### Academic positions

- 01/2009–10/2012 **Senior Researcher with tenure**, *Operations Research*.  
Facoltà di Ingegneria – Dipartimento di Elettronica, Informatica e Sistemistica  
Università della Calabria
- 01/2006–12/2008 **Senior Researcher**, *Operations Research*.  
Facoltà di Ingegneria – Dipartimento di Elettronica, Informatica e Sistemistica  
Università della Calabria

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### Previous appointments

- 09/2005–12/2005 **Research internship**.  
Laboratorio di Logistica, Dipartimento di Elettronica, Informatica e Sistemistica  
Università della Calabria
- 09/2002–08/2005 **Research Fellow**, *Operations Research*.  
Dipartimento di Elettronica, Informatica e Sistemistica  
Università della Calabria
- 11/2001–08/2002 **Research internship**.  
Laboratorio di Logistica, Dipartimento di Elettronica, Informatica e Sistemistica  
Università della Calabria
- 11/1999–10/2001 **Doctoral Fellow**, *PhD Programme in Systems and Computer Engineering*.  
Dipartimento di Elettronica, Informatica e Sistemistica  
Università della Calabria

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### Education

- 02/2002 **PhD Degree**, *Systems and Computer Engineering*.  
Dipartimento di Elettronica, Informatica e Sistemistica  
Università della Calabria

02/1998 **MSc Degree**, *Industrial and Management Engineering*.  
Facoltà di Ingegneria  
Università della Calabria

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## Teaching activity

### Courses held in Italy

- 2020/21–present **Lecturer**, *Operations Research*.  
BSc Degree in Computer Engineering  
Università della Calabria
- 2020/21–present **Lecturer**, *Revenue Management*.  
MPhil Degree in Data Science  
Università della Calabria
- 2008/09–present **Lecturer**, *Probabilistic Methods in Engineering*.  
BSc Degree in Industrial and Management Engineering  
Università della Calabria
- 2009/10–2009/10 **Lecturer**, *Probability and Queueing Theory*.  
BSc Degree in Electronic Engineering  
Università della Calabria
- 2008/09–2008/09 **Lecturer**, *Probability and Queueing Theory*.  
BSc Degree in Computer Engineering  
Università della Calabria
- 2005/06–2008/09 **Lecturer**, *Probability and Quantitative Methods*.  
BSc Degree in Computer and Biomedical Engineering  
Università Magna Graecia di Catanzaro
- 2006/07–2008/09 **Lecturer**, *Statistics and Reliability*.  
BSc Degree in Industrial and Management Engineering  
Università della Calabria
- 2006/07–2008/09 **Assistant Lecturer**, *Logistics*.  
MSc Degree in Industrial and Management Engineering  
Università della Calabria
- 2005/06–2005/06 **Assistant Lecturer**, *Optimization*.  
MSc Degree in Mechanical Engineering  
Università della Calabria
- 2003/04–2003/04 **Assistant Lecturer**, *Optimization Techniques*.  
MSc Degree in Computer Engineering  
Università della Calabria
- 2003/04–2003/04 **Assistant Lecturer**, *Optimization*.  
MSc Degree in Computer Engineering  
Università della Calabria
- 2003/04–2003/04 **Assistant Lecturer**, *Applied Operations Research*.  
MSc Degree in Industrial and Management Engineering  
Università della Calabria

## Courses held in United Kingdom

- 2004/05–2004/05 **University Lecturer and Principal Assessor**, *Modelling Choice*.  
Engineering Tripos - Part IIA  
Department of Engineering  
University of Cambridge
- 2002/03–2002/03 **University Lecturer and Principal Assessor**, *Modelling Risk*.  
Engineering Tripos - Part IIA  
Department of Engineering  
University of Cambridge

## Faculty Memberships in Doctoral Programmes

- 05/2014–presente **Faculty member**.  
PhD Programme in Information and Communication Technologies, Dipartimento di Ingegneria Informatica, Modellistica, Elettronica e Sistemistica  
Università della Calabria
- 09/2013–05/2014 **Faculty member**.  
PhD Programme in Information and Communication Engineering for Pervasive Intelligent Environments, Dipartimento di Ingegneria Informatica, Modellistica, Elettronica e Sistemistica  
Università della Calabria
- 01/2007–09/2013 **Faculty Member**.  
PhD Programme in Operations Research, Dipartimento di Elettronica, Informatica e Sistemistica  
Università della Calabria

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## Scientific research activity

### Research interests

- Mathematical optimization
- Nonlinear programming
- Nonsmooth and nonconvex optimization
- Mathematical programs with equilibrium constraints
- Incremental methods for continuous and discrete optimization
- Mixed-integer optimization models and applications
- Revenue management
- Optimization methods for machine learning

### Visiting positions

- 02/2012–02/2012 **Visiting Scholar**, *Judge Business School*, University of Cambridge.  
Optimization models for supply-chain risk management
- 10/2011–10/2011 **Visiting Scholar**, *Judge Business School*, University of Cambridge.  
Optimization models for TV commercial scheduling
- 01/2005–06/2005 **Visiting Scholar**, *Judge Institute of Management Studies*, University of Cambridge.  
Algorithms for mathematical programs with complementarity constraints
- 09/2002–09/2003 **Visiting Scholar**, *Judge Institute of Management Studies*, University of Cambridge.  
Algorithms for mathematical programs with equilibrium constraints

## Editorial activity for scientific journals

- 04/2021–present **Associate Editor**, *Advances in Computational Intelligence*, Springer Nature.  
07/2018–present **Associate Editor**, *Soft Computing*, Springer Nature.  
05/2005–present **Reviewer**.

4OR, Applied Mathematical Modeling, Applied Soft Computing, Computational Optimization and Applications, European Journal of Industrial Engineering, European Journal of Operational Research, IMA Journal of Management Mathematics, Journal of Global Optimization, Journal of the Operational Research Society, Journal of Optimization Theory and Applications, Mathematical Programming, Optimization Letters, Operations Research Letters, Research Transportation in Economics, SIAM Journal on Optimization, Transportation Research Part B, Transportation Research Part C, Transportation Research Part E.

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## List of scientific publications

### Articles in peer-reviewed journals

- [A17] Gaudio M, Giallombardo G, Miglionico G, Vocaturo E (2020) Classification in the multiple instance learning framework via spherical separation. *Soft Computing*, 24(7), 5071–5077.  
[doi](https://doi.org/10.1007/s00500-019-04255-1)10.1007/s00500-019-04255-1
- [A16] Gaudio M, Giallombardo G, Miglionico G (2020) Essentials of numerical nonsmooth optimization. *4OR*, 18(1), 1–47.  
[doi](https://doi.org/10.1007/s10288-019-00425-x)10.1007/s10288-019-00425-x
- [A15] Astorino A, Fuduli A, Giallombardo G, Miglionico G (2019) SVM-based multiple instance classification via DC optimization. *Algorithms*, 12(12) 103.  
[doi](https://doi.org/10.3390/a12120249)10.3390/a12120249
- [A14] Gaudio M, Giallombardo G, Miglionico G (2018) A savings-based model for two-shipper cooperative routing. *Optimization Letters*, 12(8), 1811–1824.  
[doi](https://doi.org/10.1007/s11590-018-1235-0)10.1007/s11590-018-1235-0
- [A13] Gaudio M, Giallombardo G, Mukhametzhanov M (2018) Numerical infinitesimals in a variable metric method for convex nonsmooth optimization. *Applied Mathematics and Computation* 318, 312–320.  
[doi](https://doi.org/10.1016/j.amc.2017.07.057)10.1016/j.amc.2017.07.057
- [A12] Gaudio M, Giallombardo G, Miglionico G, Bagirov A (2018) Minimizing nonsmooth DC functions via successive DC piecewise-affine approximations. *Journal of Global Optimization*, 71(1), 37–55.  
[doi](https://doi.org/10.1007/s10898-017-0568-z)10.1007/s10898-017-0568-z
- [A11] Gaudio M, Giallombardo G, Miglionico G (2018) Minimizing Piecewise-Concave Functions Over Polyhedra. *Mathematics of Operations Research*, 43(2), 580–597.  
[doi](https://doi.org/10.1287/moor.2017.0873)10.1287/moor.2017.0873
- [A10] Moccia L, Giallombardo G, Laporte G (2017) Models for technology choice in a transit corridor with elastic demand. *Transportation Research Part B* 104, 733–756.  
[doi](https://doi.org/10.1016/j.trb.2017.06.001)10.1016/j.trb.2017.06.001
- [A09] Giallombardo G, Jiang H, Miglionico G (2016) New Formulations for the Conflict Resolution Problem in the Scheduling of Television Commercials. *Operations Research* 64(4), 838–848.  
[doi](https://doi.org/10.1287/opre.2016.1496)10.1287/opre.2016.1496

- [A08] Fuduli A, Gaudio M, Giallombardo G, Miglionico G (2015) A partially inexact bundle method for convex semi-infinite minmax problems. *Communications in Nonlinear Science and Numerical Simulation* 21, 172–180.  
doi10.1016/j.cnsns.2014.07.033
- [A07] Gaudio M, Giallombardo G, Miglionico G (2015) Optimal replenishment order placement in a Finite Time Horizon. *Journal of Optimization Theory and Applications* 164(3), 1078–1089.  
doi10.1007/s10957-013-0452-z
- [A06] Giallombardo G, Moccia L, Salani M, Vacca I (2010) Modeling and solving the Tactical Berth Allocation Problem. *Transportation Research Part B* 44, 232–245.  
doi10.1016/j.trb.2009.07.003
- [A05] Gaudio M, Giallombardo G, Miglionico G (2009) On solving the Lagrangian dual of integer programs via an incremental approach. *Computational Optimization and Applications* 44(1), 117–138.  
doi10.1007/s10589-007-9149-2
- [A04] Giallombardo G, Ralph D (2008) Multiplier convergence in trust-region methods with application to convergence of decomposition methods for MPECs. *Mathematical Programming* 112(2), 335–369.  
doi10.1007/s10107-006-0020-5
- [A03] Gaudio M, Giallombardo G, Miglionico G (2006) An incremental method for solving convex finite minmax problems. *Mathematics of Operations Research* 31(1), 173–187.  
doi10.1287/moor.1050.0175
- [A02] Fuduli A, Gaudio M, Giallombardo G (2004) A DC piecewise affine model and a bundling technique in nonconvex nonsmooth minimization. *Optimization Methods and Software* 18(1), 89–102.  
doi10.1080/10556780410001648112
- [A01] Fuduli A, Gaudio M, Giallombardo G (2004) Minimizing nonconvex nonsmooth functions via cutting planes and proximity control. *SIAM Journal on Optimization* 14(3), 743–756.  
doi10.1137/S1052623402411459

### Book chapters

- [V01] Giallombardo G, Miglionico G, Nitoglia L, Pelle S (2019) Production Scheduling and Distribution Planning at FATER S.p.A.. In: Dell’Amico M, Gaudio M, Stecca G (eds) *A View of Operations Research Applications in Italy, 2018*. AIRO Springer Series, vol 2. Springer, Cham.  
doi10.1007/978-3-030-25842-9\_8

### Articles in conference proceedings

- [C01] Zumpano E, Vocaturo E, Giallombardo G, Miglionico G (2020) DC-SMIL: A multiple instance learning solution via spherical separation for automated detection of displastyc nevi. *ACM International Conference Proceeding Series*. In IDEAS ’20: Proceedings of the 24th Symposium on International Database Engineering & Applications, New York City: Association for Computing Machinery, Article N .4, pp. 1–9.  
doi10.1145/3410566.3410611