

CURRICULUM VITAE


MONICA BIANCHI


PERSONAL DATA

Office address: Department of Mathematical Disciplines, Mathematical Finance and Econometric
Catholic University
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Date of Birth: 

Nationality: 

EDUCATION

1979/1984 Degree in Mathematics, University of Milan, Italy, July 1984.

ACADEMIC POSITION

2009/- Full professor, Faculty of Economics, Catholic University, Milan, Italy

1998/2008 Associate Professor, Faculty of Economics, Catholic University, Milan, Italy

1986/1997 Researcher, Faculty of Economics, Catholic University, Milan, Italy

SELECTED PROFESSIONAL SERVICES

Referee *Journal of Optimization Theory and Applications, Journal of Global Optimization, Journal of Convex Analysis, Optimization, Mathematical Programming, European Journal of Operational Research, Computers and Mathematics with Applications, Discrete Applied Mathematics, Set Valued and Variational Analysis.*

RESEARCH INTERESTS

Equilibrium problems, Variational inequalities, Generalized convexity, Generalized monotonicity, Nonlinear optimization, Variational analysis, Topological indices of graphs.

RECENT PUBLICATIONS (LAST FIVE YEARS)

1. M. Bianchi, G. Kassay and R. Pini, On a Sufficient Condition for Weak Sharp Efficiency in Multiobjective Optimization, *Journal of Optimization Theory and Applications*, 2018, doi.org/10.1007/s10957-018-1307-4.
2. M. Bianchi, I. Konnov and R. Pini, Limit vector variational inequality problems via scalarization, *Journal of Global Optimization*, 2018, doi.org/10.1007/s10898-018-0657-7.
3. M. Bianchi, N. Hadjsavvas and R. Pini, Representative functions of maximal monotone operator and bifunctions, *Mathematical Programming*, 2018, 168, pp. 433-448.
4. M. Bianchi, A. Cornaro, J.L. Palacios, A. Torriero, Lower Bounds for the Resolvent Energy, *MATCH*, 2018, 80 (2), pp. 459-465.
5. M. Bianchi, G. Kassay and R. Pini, Stability of equilibria via regularity of the diagonal subdifferential operators, *Set Valued and Variational Analysis*, 2017, 25, pp.789-805.
6. M. Bianchi, I. Konnov and R. Pini, Barrier methods for equilibrium problems, *Pure and Applied Functional Analysis*, 2017, 2 (1), pp. 1-10.
7. Bianchi, M., Clemente, G. P., Cornaro, A., Palacios, J. L., Torriero, A., New Trends in Majorization Techniques for Bounding Topological Indices, in Gutman, I., Furtula, F. B., Das K., D. K. C., Milovanovic, E., Milovanovic, I. (ed.), *Bounds in Chemical Graph Theory – Basics*, I. Gutman, B. Furtula, K. C. Das, E. Milovanovic, I. Milovanovic, Kragujevac 2017, pp. 3- 66.
8. M. Bianchi, G. Kassay and R. Pini, Linear openness of the composition of set-valued maps and applications to variational systems, *Set Valued and Variational Analysis*, 2016, 24, 581–595.
9. M. Bianchi, A. Cornaro, J.L. Palacios and A. Torriero, New upper bounds for the ABC index, *MATCH*, 2016, 76 (1), pp. 117-130
10. M. Bianchi, A. Cornaro, J.L. Palacios, J.L. Renom and A. Torriero, Revisiting bounds for the multiplicative degree-Kirchhoff index, *MATCH*, 2016, 75 (1), pp. 227-231.
11. M. Bianchi, A. Cornaro, J.L. Palacios and A. Torriero, Upper and lower bounds for the Mixed Degree-Kirchhoff index, *Filomat*, 2016, 30(9), pp. 2351-2358.

12. M. Bianchi, A. Cornaro, J.L. Palacios and A. Torriero, Bounds for the global cyclicity index of a general network via weighted majorization *Journal of Inequalities and Applications*, 2015, 113, doi: 10.1186/s13660-015-0624-5
13. M. Bianchi, A. Cornaro, J.L. Palacios and A. Torriero, New bounds of degree-based topological indices for some classes of c-cyclic graphs, *Discrete Applied Mathematics*, **184**, 2015, 62-75.
14. M. Bianchi, G. Kassay and R. Pini, Stability results of variational systems under openness with respect to fixed sets, *Journal of Optimization Theory and Applications*, **164**, 2015, 92-108.
15. M. Bianchi, A. Cornaro, J.L. Palacios and A. Torriero, Localization of graph topological indices via majorization technique, 2014 (editors Dehmer M; Emmert-Streib F), in *Quantitative Graph Theory: Mathematical Foundations and Applications (Discrete Mathematics and Its Applications)*, pp. 35-80, NEW YORK: Chapman and Hall/CRC.
16. M. H. Alizadeh, M. Bianchi, N. Hadjisavvas, R. Pini, On cyclic and n -cyclic monotonicity of bifunctions, *Journal of Global Optimization*, **60**, 2014, 599-616.
17. M. Bianchi, A. Cornaro and A. Torriero, A majorization method for localizing graph topological indices, *Discrete Applied Mathematics*, **16**, 2013, 2731-2739.
18. M. Bianchi, A. Cornaro, J.L. Palacios and A. Torriero, Bounding the Sum of Powers of Normalized Laplacian Eigenvalues of Graphs through Majorization Methods, *MATCH-Communications in Mathematical and in Computer Chemistry* **70**, 2013, 707-716.
19. M. Bianchi, A. Cornaro, J.L. Palacios and A. Torriero, New upper and lower bounds for the additive degree-Kirchhoff index, *Croatica chemica acta* **8**, 2013, 363-370.
20. M. Bianchi, A. Cornaro, J.L. Palacios and A. Torriero, Bounds for the Kirchhoff index via majorization techniques, *Journal of Mathematical Chemistry* **51**, 2013, 569-587.
21. M. Bianchi, A. Cornaro and A. Torriero, Majorization under constraints and bounds on the second Zagreb index, *Mathematical Inequalities and Applications*, **16**, 2013, 329-347.
22. M. Bianchi, G. Kassay and R. Pini, An inverse map result and some applications to sensitivity of generalized equations, *Journal of Mathematical Analysis and Applications*, **399**, 2013, 279-290.
23. M. Bianchi, E. Miglierina, E. Molho and R. Pini, Some results on condition number in convex multiobjective optimization, *Set Valued and Variational Analysis*, **21**, 2013, 47-65.

ORGANIZING COMMITTEE OF WORKSHOPS

- Workshop on Vector Optimization and Multicriteria Games, University of Milano-Bicocca and Catholic University (Milan), May 6-7, 2010
- Workshop on Optimization and Related Topics, University of Milano-Bicocca and Catholic University (Milan), May 5-6, 2011
- Workshop on Optimization and Variational Analysis, University of Milano-Bicocca and Catholic University (Milan), May 10-11, 2012
- Workshop on Optimization and Variational Analysis, University of L'Aquila, May 9-10, 2013
- Workshop on Optimization, Game Theory and Related Topics, University of Genova, May 8-9, 2014
- Workshop on Variational Analysis, Game Theory and Related Topics, University of Genova, May 7-8, 2015
- Workshop on Variational Analysis, Equilibria and Optimization, University of Pisa, May, 29-30, 2017
- Workshop on Optimization and related topics, University of Milan and Pavia, May 17-18, 2018.

TEACHING EXPERIENCE

The teaching experience includes the following courses delivered at Faculties of Economic and Business Science both at the undergraduate and at graduate level as well as at the PhD level

- Calculus
- Mathematical Finance
- Mathematics for Economics (Linear algebra, Optimization, Dynamical systems, Decision theory)
- Nonlinear Programming

Milan, June 10, 2018