

Curriculum Vitae of **Bruno Viscolani**

Contact

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Education

- Laurea in Mathematics, University of Padova, 1976

Positions

- Academic Senator, University of Padova (2012 - 2014)
- Director of the Department of Mathematics, University of Padova (2008 - 2014)
- Full Professor of Mathematics for Economics - Metodi Matematici dell'Economia e delle Scienze Attuariali e Finanziarie (1999 - present) University of Padova
- Associate Professor of Mathematics for Economics:
 - (1995-1999) University of Padova
 - (1987-1995) Ca' Foscari University of Venice
- Research Fellow of Numerical Analysis and Programming - Calcolo Numerico e Programmazione (1980-1987) University of Padova
- Research Fellow of Mathematics (CNR grant, Mathematical Sciences Committee - Mathematical Analysis and Computer Science, 1977-1980) University of Padova

Visiting appointments

- Visiting Scholar at London University (September 1983 - September 1984)

Research interests

- Optimal Control and Applications to Economics and Management Science
- Non-Linear Programming and Applications to Economics and Management Science
- Game Theory and Marketing Applications

Scientific Associations Membership

- AMASES (Ass. per la Matematica Applicata alle Scienze Economiche e Sociali) – Member of the Scientific Committee 2011–2013, President 2017 –
- UMI (Unione Matematica Italiana)
- EMS (European Mathematical Society)
- AIRO (Associazione Italiana di Ricerca Operativa)
- ISDG (International Society of Dynamic Games) – Member of the Executive Board 2008–2012

Editorial activities

- “Co-Editor” with J. Paloo of “Advances in Dynamic and Mean Field Games”, volume 15 of Annals of the International Society of Dynamic Games, Birkhauser.
- Associate Editor of the “Journal of Information & Optimization Sciences” (<http://www.tarupublications.com/jios.html>).
- Member of the Editorial Board of “Eurasian Mathematical Journal” (<http://www.enu.kz/en/emj.php>).
- Reviewer for “Mathematical Reviews”.
- Referee for “4OR - A Quarterly Journal of Operations Research”, “Annals of Operations Research”, “Automatica”, “Central European Journal of Operations Research”, “Complexity”, “Decisions in Economics and Finance”, “Discrete Dynamics in Nature and Society”, “Dynamic Games and Applications”, “European Journal of Operational Research”, “IEEE Transactions on Automatic Control”, “IEEE Transactions on Systems, Man and Cybernetics”, “IMA Journal of Management Mathematics”, “International Game Theory Review”, “International Journal of Mathematics and Mathematical sciences”, “International Journal of Production Economics”, “International Journal of the Economics of Business”, “Journal of Economic Dynamics and Control”, “Journal of Industrial and Management Optimization”, “Journal of Information and Optimization Sciences”, “Journal of Optimization Theory and Applications”, “Journal of the Operational Research Society”, “Mathematical Methods of Operations Research”, “Mathematical Problems in Engineering”, “Mathematical Social Sciences”, “Metroeconomica”, “Natural Resource Modeling”, “Optimal Control Applications and Methods”, “Optimization”, “Optimization Letters”, “Rendiconti per gli Studi Economici Quantitativi”, “Ricerca Operativa”, “SIAM Journal on Control and Optimization”, “Stochastic Models”, “Top”.

Teaching experience

(Courses taught, since the year 1987, for different periods)

- at University of Padova:
(School of Economics and Political Sciences) Matematica Generale, Matematica Finanziaria, Matematica per l'Economia: modelli dinamici e ottimizzazione, Matematica per le Decisioni della Finanza Aziendale, Matematica per l'Economia: finanza quantitativa, Matematica per l'Economia e la Finanza, Matematica per l'Economia e la Finanza 2, Operations Management.
(School of Sciences) Economia Matematica, Metodi e Modelli per le Scelte Economiche, Modelli Matematici per l'Economia, Matematica per l'Economia.
- at Ca' Foscari University of Venice:
(Facoltà di Economia) Matematica Finanziaria I, Matematica Finanziaria ed Attuariale, Matematica Generale.
(PhD in "Matematica per le Decisioni Economiche" - Trieste) Introduzione al Controllo Ottimo con Applicazioni all'Economia.
- at University of Verona:
(Facoltà di Economia) Matematica Generale.

Selected scientific publications

(since the year 2009)

1. On an environmental sustainability problem. *Optimal Control Applications and Methods*, 2020, DOI :10.1002/oca.2690.
2. A dynamic advertising model in a vaccination campaign (with L. Grosset) *Central European Journal of Operations Research*, DOI :10.1007/s10100-020-00675-9.
3. Advertising in a vaccination campaign: a variable time control problem (with L. Grosset) *Journal of Interdisciplinary Mathematics*, 223, 6, 2020, pp. 1197-1211.
4. Decisions on production and quality (with L. Grosset) *Decisions in Economics and Finance*, 43, 1, 2020, pp. 91-107.
5. A LQ vaccine communication game (with A. Buratto and L. Grosset) In P.-O. Pineau, S. Taboubi and S. P. Sigué (eds.), "Games in Management Science - Essays in Honor of Georges Zaccour", *International Series in Operations Research and Management Science*, 280, Springer, Cham, 2020, pp. 353-367.
6. Optimal advertising strategies in a sports licensing contract (with A. Buratto and L. Ranocchi) *International Journal of Contemporary Mathematical Sciences*, 14, 2, 2019, pp. 81-89.
7. A Note on optimality conditions for control problems with parameters (with L. Grosset) *Applied Mathematical Sciences*, 12, 16, 2018, pp. 773-782.
8. On a manufacturing capacity problem in high-tech industry (with L. Grosset) *Applied Mathematical Sciences*, 11, 20, 2017, pp. 975-983.

9. Manufacturing high-tech products subject to rapid obsolescence (with L. Grosset) *Journal of Optimization Theory and Applications*, 170, 3, 2016, pp. 993-1008.
10. Age-structured linear-state differential games (with L. Grosset) *European Journal of Operational Research*, 254, 2016, 269-278.
11. An advertising game with multiplicative interference (with A. Baggio) *Optimization*, 63, 9, 2014, 1401-1418.
12. ε -subgame perfectness of an open-loop Stackelberg equilibrium in linear-state games (with A. Buratto and L. Grosset) *Dynamic Games and Applications*, 2, 2012, 269-279.
13. Pure-strategy Nash equilibria in an advertising game with interference. *European Journal of Operational Research*, 216, 2012, 605-612.
14. A goodwill model with predatory advertising (with L. Grosset and P. Roberti) *Operations Research Letters*, 39, 2011, 419-422.
15. Using several advertising media in a homogeneous market (with A. Sorato) *Optimization Letters*, 5, 2011, 557-573.
16. Advertising and exogenous interference in a segmented market (with L. Grosset) *Journal of Interdisciplinary Mathematics*, 14, 2011, 29-38.
17. Advertising events in a competitive framework (with L. Grosset) *Journal of Optimization Theory and Applications*, 146, 2010, 375-385.
18. Advertising and production of a seasonal good for a heterogeneous market (with D. Favaretto) *4OR - A Quarterly Journal of Operations Research*, 8, 2, 2010, 141-153.
19. Advertising decisions in a vertical distribution channel. *International Game Theory Review*, 11, 3, 2009, 273-284.
20. Optimal dynamic advertising with an adverse exogenous effect on brand goodwill (with L. Grosset) *Automatica*, 45, 2009, 863-870.
21. Advertising strategies in a differential game with negative competitor's interference (with G. Zaccour) *Journal of Optimization Theory and Applications*, 140, 2009, 153-170.
22. Advertising decisions for a segmented market. *Optimization*, 58, 4, 2009, 469-477.

Lecture Notes

1. *Matematica Generale* (with A. Buratto, M. Grasselli, L. Grosset) Libreria Progetto, Padova, 2019.
2. *Ottimizzazione Dinamica, modelli economici e gestionali* (with A. Buratto, L. Grosset) Libreria Progetto, Padova, 2017.
3. *Modelli Matematici per l'Economia* (with P. Malesani) Libreria Progetto, Padova, 2007.
4. *Modelli Dinamici in Economia* (with L. Grosset) Libreria Progetto, Padova, 2005.
5. *Programmazione Matematica e Decisioni Economiche* (with A. Buratto) Libreria Progetto, Padova, 2005.