Publications
of
Francesca Maggioni

List of Publications

Articles in International Journals with Peer-Review Process

[1] Maggioni, F. & Ricca, R.L. (2006) Writhing and coiling of closed filaments. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **462**, 3151–3166, ISSN: 1471-2946, doi: 10.1098/rspa.2006.1719.

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[5] Maggioni, F., Kaut, M. & Bertazzi, L. (2009) Stochastic optimization models for a single-sink transportation problem. *Computational Management Science*, **6**(2), 251–267, ISSN: 1619-697X, doi: 10.1007/s10287-008-0086-z.

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[11] Maggioni, F. & Wallace, S.W. (2012) Analyzing the quality of the expected value solution in stochastic programming. *Annals of Operations Research*, **200**(1), 37–54, ISSN: 0254-5330, doi: 10.1007/s10479-010-0807-x.

[12] Vespucci, M.T., Maggioni, F., Bertocchi, M.I. & Innorta, M. (2012) A stochastic model for the daily coordination of pumped storage hydro plants and wind power plants. *Annals of Operations Research*, **193**(1), 91–105, ISSN: 0254-5330, doi: 10.1007/s10479-010-0756-4.

[13] Maggioni, F., Potra, F. & Bertocchi, M. (2013) Optimal kinematics of a looped filament. *Journal of Optimization Theory and Applications*, **159**, 489–506, ISSN: 0022-3239, doi: 10.1007/s10957-013-0330-8.

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[31] Maggioni, F., Cagnolari, M. & Bertazzi, L. (2019) The value of the right distribution in stochastic programming with application to a newsvendor problem. *Computational Management Science*, **16**, 739–758, ISSN: 1619-697X, doi: 10.1007/s10287-019-00356-2.

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[37] Peng, S., Maggioni, F. & Lisser, A. (2022) Bounds for probabilistic programming with application to a blend planning problem. *European Journal of Operational Research*, **297**(3), 964-–976, ISSN: 0377-2217, doi: 10.1016/j.ejor.2021.09.023.

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[41] Faccini, D., Maggioni, F. & Potra, F.A. (2022) Robust and distributionally robust optimization models for support vector machine. *Computers and Operations Research*, **147**, 105930, ISSN: 0305-0548, doi: 10.1016/j.cor.2022.105930.

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Edited Book

[44] Aringhieri, R, Maggioni, F., Lanzarone, E. Reuter-Oppermann, M, Righini, G. & Vespucci, M.T. (2023) Operations Research for Health Care in Red Zone, ORAHS 2022, Bergamo, Italy, Jul. 17–22, AIRO Springer Series, number of pages 81, ISBN: 978-3-031-38536-0, doi: 10.1007/978-3-031-38537-7.

Articles in Conference Proceedings or Books Chapters with Peer Review Process

[45] Maggioni, F. & Ricca, R.L. (2006) Twist and fold modelling of supercoiled filaments. In *Proc.* 5^{th} *Int. Conf. Aplimat 2006 Bratislava*, Slovakia, Part II, 123–130, ISBN: 809673055X; 978-809673055-1.

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[47] Maggioni, F. & Ricca, R.L. (2008) DNA supercoiling modeling of nucleosome and viral spooling. In *PAMM, Proceedings* 6^{th} *International Congress on Industrial and Applied Mathematics, Zurich 2007,* **7**(1), 2120011–2120012, doi: 10.1002/pamm.200700421.

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[49] Maggioni, F., Wallace, S.W., Bertocchi, M. & Allevi, E. (2010) Sensitivity analysis in stochastic second order cone programming for mobile ad hoc networks. In *Proceedings of the* 6^{th} *International Conference on Sensitivity Analysis of Model Output*, SAMO 2010. In *Procedia Social and Behavioral Sciences*, **2**(5), 7704–7705, Elsevier, Milan; Italy, 19 - 22 Jul. 2010, ISSN: 1877-0428, doi: 10.1016/j.sbspro.2010.05.188.

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[59] Bertazzi, L. & Maggioni, F. (2019) Forecasting methods and optimization models for the inventory management of perishable products: the case of "La Centrale del Latte di Vicenza SpA". In *A View of Operations Research Applications in Italy, 2018*, AIRO Springer Series, (M. Dell'Amico, M. Gaudioso, G. Stecca eds), **2**, Springer, Cham., ISBN: 978-3-030-25841-2, doi: 10.1007/978-3-030-25842-9_7.

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[61] Maggioni, F., Faccini, D., Gheza, F., Manelli, F., Bonetti, G. (2023) Machine learning based classification models for COVID-19 patients. In *Operations Research for Health Care in Red Zone.* ORAHS 2022 (Aringhieri, R., Maggioni, F., Lanzarone, E., Reuter-Oppermann, M., Righini, G., Vespucci, M.T. eds), AIRO Springer Series, **10**, 35–46, Springer, Cham. ISBN: 978-3-031-38536-0, doi: 10.1007/978-3-031-38537-7_4.

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[63] De Leone, R., Maggioni, F. & Spinelli, A. (2024) A Multiclass robust twin parametric margin support vector machine with an application to vehicles emissions. In *Machine Learning, Optimization, and Data Science.* LOD 2023. (Nicosia, G., Ojha, V., La Malfa, E., La Malfa, G., Pardalos, P.M., Umeton, R. eds), Lecture Notes in Computer Science, **14506**, 299–310, Springer Nature Switzerland, ISBN: 978-3-031-53965-7, doi: 10.1007/978-3-031-53966-4_22.

[64] Maggioni, F. & Spinelli, A. (2024) Vehicles smog rating classification using a new robust support vector machine approach, to appear in *AIRO Springer Series* (ODS 2023 Conference Proceedings), **19**, doi: 10.1007/978-3-031-47686-0_19.

[65] Bezzi, D. Jabali, O. & Maggioni, F. (2024) A threshold recourse policy for the electric vehicle routing problem with stochastic energy consumption, to appear in *AIRO Springer Series* (ODS 2023 Conference Proceedings), **20**, doi: 10.1007/978-3-031-47686-0_20.

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[66] Bertocchi, M., Maggioni, F., Innorta, M., Vespucci, M.T., Allevi, E., Gambarini, S. & Nicolini, S. (2008) La vendita al dettaglio del gas nel mercato liberalizzato: un modello di ottimizzazione stocastica. *Matematica e Impresa*, **1**, 16.

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[68] Allevi, E. & Maggioni, F. (2010) Capitolo 2: Proprietà base e teoria della programmazione stocastica lineare. In *Programmazione stocastica e applicazioni* by J. Abaffy, E. Allevi, M. Bertocchi, V. Moriggia, Apogeo, Milano ISBN: 978-88-7534-044-5.

[69] Allevi, E. & Maggioni, F. (2010) Capitolo 3: Il metodo L-Shaped. In *Programmazione stocastica e applicazioni* by J. Abaffy, E. Allevi, M. Bertocchi, V. Moriggia, Apogeo, Milano ISBN: 978-88-7534-044-5.

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[72] Maggioni, F. (2017) La bellezza e l'utilità della matematica: un omaggio a Marida Bertocchi. In *A me l'infinito mi schiaccia sempre un po'. L'uomo interroga la scienza* - Ateneo di Scienze Lettere e Arti di Bergamo - Studi, Bergamo, ISBN-978-88-6642-279-2, 185–196.

[73] Maggioni, F. (2019) Capitolo 6: La programmazione non lineare. In *Strategie, introduzione alla teoria dei giochi e delle decisioni* (C. Bertini, G. Gambarelli, I. Stach eds), Giappichelli Editore, ISBN: 978-88-921-0413-6.

[74] Maggioni, F. (2019) Capitolo 10: La programmazione stocastica. In *Strategie, introduzione alla teoria dei giochi e delle decisioni* (C. Bertini, G. Gambarelli, I. Stach eds), Giappichelli Editore, ISBN: 978-88-921-0413-6.

[75] Maggioni, F., Gheza, F., Manelli, F., & Bonetti G. (2021) Un algoritmo di apprendimento automatico per l'ottimizzazione delle cure di pazienti COVID-19, In *Atti dell'Ateneo di Scienze Lettere e Arti di Bergamo*, Vol. LXXXIII, Supplemento, 213–224, ISSN: 1724-2347, ISBN: 978-88-6642-383-6.

Ph.D. Thesis

[76] Maggioni, F. (2006) Kinematics of elastic filaments and magnetic relaxation of flux tubes. *Ph.D. Thesis*, University of Milano-Bicocca.

Miscellaneous

[77] Maggioni, F. & Bertazzi, L. (2018) Forecasting and optimizing the material requirement planning of *La Centrale del Latte di Vicenza SpA*, A View of Operations Research in Italy. Selected by INFORMS to highlight Operations Research real-world impact. `https://www.informs.org/News-Room/O.R.-Analytics-for-Government-Officials/Topic-Areas/Information-on-Artificial-Intelligence/Case-Studies`.

[78] Consigli, G. & Maggioni, F. (2020) In Memoriam: Marida Bertocchi, First Newsletter of the Stochastic Programming Society `https://www.stoprog.org/sites/default/files/sps_newsletter_1.pdf`.

[79] Bayraksan, G. & Maggioni, F. (2020) Stochastic programming society virtual seminar series: decision making in an uncertain world, Newsletter of the European Women in Mathematics, **34** (2020/2), `https://www.europeanwomeninmaths.org/virtual-seminar/`.

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[81] Interview to the "Subject to" youtube channel
`https://www.youtube.com/watch?v=DLCIrNKAKTs`.

Papers Under Evaluation in International Journals with Peer-Review Process

[82] Spinelli, A., Maggioni, F., Rodrigues Pereira Ramos, T., Barbosa-Povoa, A.P. & Vigo, D. A rolling horizon heuristic approach for a multi-stage stochastic waste collection problem. **Status**: first revision in *European Journal of Operational Research.*

[83] Maggioni, F. & Spinelli, A. A novel robust optimization model for nonlinear support vector machine. **Status**: first revision in *European Journal of Operational Research.*

[84] Maggioni, F., Dabbene, & Pflug, G. Sampling methods for multi-stage robust optimization problems. **Status**: first revision in *Annals of Operations Research.*

[85] Cavagnini, R., Maggioni, F., Bertazzi, L. & Hewitt, M., A two-stage stochastic optimization model for the bike-sharing allocation and rebalancing problem. **Status**: first revision in *EURO Journal on Transportation and Logistics.*

[86] De Leone, R., Maggioni, F. & Spinelli, A. A robust twin parametric margin support vector machine for multiclass classification. **Status**: under review in *Computers & Operations Research.*

[87] Consigli, G., Dentcheva, D., Maggioni, F. & Micheli, G. Asset liability management under multi-period stochastic dominance principles. **Status**: under review.

[88] Wallace, S.W. & Maggioni, F. Stochastic programs with recourse: bounds. **Status**: under review in *Encyclopedia of Optimization*, 3^{rd} edition, (P. Pardalos, & O. Pokopyev eds), invited.

[89] Fadda, E., Gioia, D.G., Brandimarte, P. & Maggioni, F. Joint discount and replenishment parametric policies for perishable products, **Status**: under review in *18th IFAC Symposium on Information Control Problems in Manufacturing, (INCOM 2024).*

Work in Progress

[90] Filippi, C. Maggioni, F. & Speranza, M.G. The stochastic shortest path: a review and open problems.

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