

Claudia ARCHETTI

Professor

Department: Information Systems, Decision
Sciences and Statistics
ESSEC Business School
3 avenue Bernard Hirsch
95021 Cergy-Pontoise
France

Email: claudia.archetti@essec.edu
Phone number: +33 (0) 1 34 43 39 08
Country of origin: Italie

RESEARCH INTERESTS

Decision Sciences, Decision Support Systems, Mathematics, Operations Research

EDUCATION

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| 2017 | Habilitation as Full Professor in Operations Research from the Italian Ministry of Education, Italian Ministry of Education, Italy |
| 2002 | PhD Degree in Computational Methods for Economic and Financial Decisions and Forecast, Università degli studi di Bergamo, Italy |

EMPLOYMENT

Full-time academic positions

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| 2021 - Present | Professor, ESSEC Business School, France |
| 2019 - 2021 | Associate Professor in Operations Research, ESSEC Business School, France |
| 2014 - 2019 | Associate Professor in Operations Research, University of Brescia, Italy |
| 2005 - 2014 | Assistant Professor in Operations Research, University of Brescia, Italy |

Other affiliations and appointments

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| 2022 - 2025 | Associate Dean in charge of Chairs and Excellence Centers, ESSEC Business School, France |
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PUBLICATIONS

Journal Articles

- DIABAT, A., BIANCHESSI, N. and ARCHETTI, C. (2024). On the zero-inventory-ordering policy in the inventory routing problem. *European Journal of Operational Research*, 312(3), pp. 1024-1038.
- ARCHETTI, C., CERULLI, R., CARRABS, F. and LAUREANA, F. (2024). A new formulation and a branch-and-cut algorithm for the set orienteering problem. *European Journal of Operational Research*, 314(2), pp. 446-465.
- PETROPOULOS, F., LAPORTE, G., AKTAS, E., ALUMUR, S.A., ARCHETTI, C., AYHAN, H. ... ZHAO, X. (2024). Operational Research: methods and applications. *Journal of the Operational Research Society*, 75(3), pp. 423-617.

- BISWAS, D., ALFANDARI, L. and ARCHETTI, C. (2024). A Triple Bottom Line optimization model for assignment and routing of on-demand home services. *Computers & Operations Research*, 167, pp. 106644.
- D'HAEN, R., RAMAEKERS, K., ARCHETTI, C. and BRAEKERS, K. (2024). Integrating order picking and vehicle routing decisions in a dynamic e-commerce setting. *Computers & Operations Research*, 170, pp. 106762.
- NAJY, W., ARCHETTI, C. and DIABAT, A. (2023). Collaborative Truck-and-Drone Delivery for Inventory-Routing Problems. *Transportation Research Part C: Emerging Technologies*, 146, pp. 103791.
- SANTINI, A. and ARCHETTI, C. (2023). The hazardous orienteering problem. *Networks*, 81(2), pp. 235-252.
- DELLE DONNE, D., ARCHETTI, C., ALFANDARI, L. and LJUBIC, I. (2023). Freight-on-Transit for urban last-mile deliveries: A strategic planning approach. *Transportation Research Part B: Methodological*, 169, pp. 53-81.
- DI PLACIDO, A., ARCHETTI, C., CERRONE, C. and GOLDEN, B. (2023). The generalized close enough traveling salesman problem. *European Journal of Operational Research*, 310(3), pp. 974-991.
- CERULLI, M., SERRA, D., SORGENTE, C., ARCHETTI, C. and LJUBIC, I. (2023). Mathematical programming formulations for the collapsed k-core problem. *European Journal of Operational Research*, 311(1), pp. 56-72.
- ARCHETTI, C., BRUGLIERI, M., GUASTARROBA, G. and SPERANZA, M.G. (2023). The benefit of complete trip information in free-floating carsharing systems. *EURO Journal on Transportation and Logistics*, 12, pp. 100110.
- NHO MINH, D., ARCHETTI, C. and BERTAZZI, L. (2023). The inventory routing problem with split deliveries. *Networks*, 82(4), pp. 400-413.
- ANDREA MOR, A., ARCHETTI, C., OLA JABALI, O., ALBERTO SIMONETTO, A. and M. GRAZIA SPERANZA, M.G. (2022). The Bi-objective Long-haul Transportation Problem on a Road Network. *Omega*, 106, pp. 102522.
- MANUEL TROTTA, M., ARCHETTI, C., DOMINIQUE FEILLET, D. and ALAIN QUILLOT, A. (2022). Pickup and delivery problems with autonomous vehicles on rings. *European Journal of Operational Research*, 300(1), pp. 221-236.
- ARCHETTI, C., PEIRANO, L. and SPERANZA, M.G. (2022). Optimization in Multimodal Freight Transportation Problems: A Survey. *European Journal of Operational Research*, 299(1), pp. 1-20.
- GU, W., ARCHETTI, C., CATTARUZZA, D., OGIER, M., SEMET, F. and SPERANZA, M.G. (2022). A sequential approach for a multi-commodity two-echelon distribution problem. *Computers & Industrial Engineering*, 163, pp. 107793.
- MELIH CELIK, M., ARCHETTI, C. and HALDUN SURAL, H. (2022). Inventory routing in a warehouse: The storage replenishment routing problem. *European Journal of Operational Research*, 301(3), pp. 1117-1132.
- ARCHETTI, C. and LJUBIC, I. (2022). Comparison of formulations for the Inventory Routing Problem. *European Journal of Operational Research*, 303(3), pp. 997-1008.
- HUERTA-MUÑOZ, D.L., ARCHETTI, C., FERNÁNDEZ, E. and PEREA, F. (2022). The Heterogeneous Flexible Periodic Vehicle Routing Problem: Mathematical formulations and solution algorithms. *Computers & Operations Research*, 141, pp. 105662.

- BONERA, M., MUTTI, R., BARABINO, B., GUASTARоба, G., MOR, A., ARCHETTI, C. ... MATERNINI, G. (2022). Identifying clusters and patterns of road crash involving pedestrians and cyclists. A case study on the Province of Brescia (IT). *Transportation Research Procedia*, 60, pp. 512–519.
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- ARCHETTI, C. and BERTAZZI, L. (2021). Recent challenges in Routing and Inventory Routing: E commerce and lastmile delivery. *Networks*, 77(2), pp. 255-268.
- ARCHETTI, C., GUERRIERO, F. and MACRINA, G. (2021). The Online Vehicle Routing Problem with Occasional Drivers. *Computers & Operations Research*, 127, pp. 105144.
- ARCHETTI, C., GIANFRANCO GUASTARоба, G., HUERTA-MUNOZ, D.L. and SPERANZA, M.G. (2021). A Kernel Search Heuristic for the Multi-Vehicle Inventory Routing Problem. *International Transactions in Operational Research*, 28(6), pp. 2984-3013.
- DIABAT, A., ARCHETTI, C. and NAJY, W. (2021). The Fixed-Partition Policy Inventory Routing Problem. *Transportation Science*, 55(2), pp. 275-552.
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- ARCHETTI, C., SPERANZA, M.G., BOCCIA, M., SFORZA, A. and STERLE, C. (2020). A Branch-And-Cut Algorithm for the Inventory Routing Problem with Pickups and Deliveries. *European Journal of Operational Research*, 282(3), pp. 886-895.
- ARCHETTI, C., FEILLET, D., MOR, A. and SPERANZA, M.G. (2020). Dynamic traveling salesman problem with stochastic release dates. *European Journal of Operational Research*, 280(3), pp. 832-844.
- ARSLAN, O., ARCHETTI, C., JABALI, O., LAPORTE, G. and SPERANZA, M.G. (2020). Minimum Cost Network Design in Strategic Alliances. *Omega*, 96.
- ARCHETTI, C. and PEIRANO, L. (2020). Air intermodal freight transportation: the freight forwarder service problem. *Omega*, 94, pp. 102040.
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- ARCHETTI, C., DESAULNIERS, G. and SPERANZA, M.G. (2017). Minimizing the logistic ratio in the inventory routing problem. *EURO Journal on Transportation and Logistics*, 6(4), pp. 289-306.
- ARCHETTI, C., BOLAND, N. and SPERANZA, M.G. (2017). A Matheuristic for the Multivehicle Inventory Routing Problem. *INFORMS Journal on Computing*, 29(3), pp. 377-387.
- ARCHETTI, C., MONTANELLI, A., FINAZZI, D., CAIMI, L. and GARRAFA, E. (2017). Clinical laboratory automation: a case study. *Journal of Public Health Research*, 6(1).
- ANGELELLI, E., ARCHETTI, C., FILIPPI, C. and VINDIGNI, M. (2017). The probabilistic orienteering problem. *Computers & Operations Research*, 81, pp. 269-281.
- ARCHETTI, C., FERNÁNDEZ, E. and HUERTA-MUÑOZ, D.L. (2017). The Flexible Periodic Vehicle Routing Problem. *Computers & Operations Research*, 85, pp. 58-70.
- ARCHETTI, C., BERTAZZI, L., LAGANÀ, D. and VOCATURO, F. (2017). The Undirected Capacitated General Routing Problem with Profits. *European Journal of Operational Research*, 257(3), pp. 822-833.
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- ARCHETTI, C., SAVELSBERGH, M. and SPERANZA, M.G. (2016). The Vehicle Routing Problem with Occasional Drivers. *European Journal of Operational Research*, 254(2), pp. 472-480.

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- ARCHETTI, C., GUASTARROBA, G. and SPERANZA, M.G. (2014). An ILP-refined tabu search for the Directed Profitable Rural Postman Problem. *Discrete Applied Mathematics*, 163, pp. 3-16.
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- ARCHETTI, C., BIANCHESSI, N. and HERTZ, A. (2014). A branch-and-price algorithm for the robust graph coloring problem. *Discrete Applied Mathematics*, 165, pp. 49-59.
- ARCHETTI, C., BIANCHESSI, N., SPERANZA, M.G. and HERTZ, A. (2014). Incomplete service and split deliveries in a routing problem with profits. *Networks*, 63(2), pp. 135-145.
- ARBIB, C., SERVILIO, M., ARCHETTI, C. and SPERANZA, M.G. (2014). The directed profitable location Rural Postman Problem. *European Journal of Operational Research*, 236(3), pp. 811-819.
- ARCHETTI, C., BERTAZZI, L. and SPERANZA, M.G. (2014). Polynomial cases of the economic lot sizing problem with cost discounts. *European Journal of Operational Research*, 237(2), pp. 519-527.
- ANGELELLI, E., ARCHETTI, C. and VINDIGNI, M. (2014). The Clustered Orienteering Problem. *European Journal of Operational Research*, 238(2), pp. 404-414.
- ARCHETTI, C., BIANCHESSI, N. and SPERANZA, M.G. (2014). Branch-and-cut algorithms for the split delivery vehicle routing problem. *European Journal of Operational Research*, 238(3), pp. 685-698.
- ARCHETTI, C., BIANCHESSI, N., IRNICH, S. and SPERANZA, M.G. (2014). Formulations for an inventory routing problem. *International Transactions in Operational Research*, 21(3), pp. 353-374.
- ARCHETTI, C., SPERANZA, M.G., CORBERÁN, , SANCHIS, J.M. and PLANA, I. (2014). The Team Orienteering Arc Routing Problem. *Transportation Science*, 48(3), pp. 442-457.
- ARCHETTI, C. and SPERANZA, M.G. (2014). A survey on matheuristics for routing problems. *EURO Journal on Computational Optimization*, 2(4), pp. 223-246.

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- ARCHETTI, C., GUASTARROBA, G. and SPERANZA, M.G. (2013). Reoptimizing the rural postman problem. *Computers & Operations Research*, 40(5), pp. 1306-1313.
- ARCHETTI, C., BIANCHESSI, N. and SPERANZA, M.G. (2013). Optimal solutions for routing problems with profits. *Discrete Applied Mathematics*, 161(4-5), pp. 547-557.
- ARCHETTI, C., BIANCHESSI, N. and SPERANZA, M.G. (2013). The capacitated team orienteering problem with incomplete service. *Optimization Letters*, 7, pp. 1405-1417.
- ARCHETTI, C., DOERNER, K.F. and TRICOIRE, F. (2013). A heuristic algorithm for the free newspaper delivery problem. *European Journal of Operational Research*, 230(2), pp. 245-257.
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- ARCHETTI, C., BIANCHESSI, N. and SPERANZA, M.G. (2011). A column generation approach for the split delivery vehicle routing problem. *Networks*, 58(4), pp. 241-254.
- ARCHETTI, C., FEILLET, D., GENDREAU, M. and SPERANZA, M.G. (2011). Complexity of the VRP and SDVRP. *Transportation Research Part C: Emerging Technologies*, 19(5), pp. 741-750.
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- ARCHETTI, C., FEILLET, D., HERTZ, A. and SPERANZA, M.G. (2010). The undirected capacitated arc routing problem with profits. *Computers & Operations Research*, 37(11), pp. 1860-1869.
- PETERSEN, H.L., ARCHETTI, C. and SPERANZA, M.G. (2010). Exact solutions to the double travelling salesman problem with multiple stacks. *Networks*, 56(4), pp. 229-243.
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ARCHETTI, C., SPERANZA, M.G. and SAVELSBERGH, M.W.P. (2008). An Optimization-Based Heuristic for the Split Delivery Vehicle Routing Problem. *Transportation Science*, 42(1), pp. 22-31.

KE, L., ARCHETTI, C. and FENG, Z. (2008). Ants can solve the team orienteering problem. *Computers & Industrial Engineering*, 54(3), pp. 648-665.

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Book chapters

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Conferences

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ARCHETTI, C., DELLE DONNE, D. and SANTINI, A. (2022). An extended IP formulation for the Freight on Transport problem. In: Spanish Conference on Statistics and Operations Research (SEIO). Granada.

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DELLE DONNE, D., ALFANDARI, L., ARCHETTI, C. and LJUBIC, I. (2022). Freight-on-Transit for urban last-mile deliveries: A Strategic Planning Approach. In: Spanish Conference on Statistics and Operations Research (SEIO). Granada.

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LI, Y., ARCHETTI, C. and LJUBIC, I. (2022). Reinforcement Learning Approaches for the Orienteering Problem with Stochastic and Dynamic Release Dates. In: 2022 Italian Operations Research Society (AIRO) (2022 ODS). Florence.

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Invited speaker

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DELLE DONNE, D., ALFANDARI, L., ARCHETTI, C. and LJUBIC, I. (2021). *Freight-on-Transit for urban last-mile deliveries: A Strategic Planning Approach*. 2104, ESSEC Business School.

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ARCHETTI, C. (2021). The new logistics challenge: E-commerce and last-mile delivery. *ESSEC Knowledge*.

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OTHER RESEARCH ACTIVITIES

Chief Editor

Since 2023 Networks

Associate Editor

2020 - 2022 Omega

2020 - 2022 TOP: An Official Journal of the Spanish Society of Statistics and Operations Research

Since 2018 Transportation Science

2016 - 2018 Computers & Operations Research

2010 - 2022 Networks

Editorial Board Membership

Since 2018 European Journal of Operational Research

Affiliations

Since 2018 VIP3 of EURO, the Association of European Operational Research Societies, in charge of publications and communication

PhD Supervision

2023 M. BEN AHMED, Thesis jury member

2023 S. ATAÇ, Thesis jury member

2023 A. HASSANZADEH (ESSEC Business School), Thesis jury president

2023 D. BISWAS (ESSEC Business School), Thesis jury member

2022 U. BREUNIG (University of Vienna), Thesis jury member

2021 D. DUMÉZ, Thesis jury member

2021 M. A. VAN ZON, Thesis jury member

2021 F. TORRES, Thesis jury member

2020 L. PEIRANO (Università degli studi di Bergamo), Thesis director

2020 N. GASTALDON (University of Padova), Thesis jury member

2020 F. LAUREANA (University of Salerno), Thesis referee

2020 A. MASONE, Thesis jury member

2020 G. MARQUES, Thesis jury member

2020 E. ORM HELLSTEN, Thesis jury member

2019 I. BEN MOHAMED (Université de bordeaux), Thesis jury member

2019 P. MATL (University of Vienna), Thesis jury member

2019 A. BALLER (University of Amsterdam), Thesis jury member

2019 Y. YUAN (École Centrale Lille), Thesis jury member

2019 K. FARIAS DE ARAUJO (Université Grenoble Alpes), Thesis jury member

2018 D. HUERTA-MUNOZ (Universitat Politècnica de Catalunya), Thesis co-director

2017 H. BEN TICHA (École des Mines de Saint-Etienne), Thesis jury member

2016 C. TILK (University of Mainz), Thesis jury member

- 2016 B. SANTOS HERNANDEZ (University of La Laguna), Thesis jury member
- 2016 M. DARVISH (Université Laval), Thesis jury member
- 2015 A. HEMMATI (Norwegian University Of Science and Technology), Thesis jury member
- 2013 A. PFEFFER (Tel Aviv University), Thesis referee
- 2012 M. STALHANE (Norwegian University Of Science and Technology), Thesis jury member
- 2011 M. TRESOLDI (Universita degli studi di Milano), Thesis referee
- 202 A. MASONE (Università di Napoli Federico II), Thesis referee
- N. MAMMADOV (University of Brescia), Thesis director
- J. PARAPPATHODI (ESSEC Business School), Thesis director
- M. MARTINELLO (University of Brescia), Thesis director
- M. PETRIS (École Centrale Lille), Thesis co-director
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- A. ANDREA DI PLACIDO (University of Molise), Thesis co-director
- M. PUNAM MANDAL (ESSEC Business School), Thesis co-director
- Y. LI (ESSEC Business School), Thesis co-director
- Y. SU, Thesis jury member

Other research activities

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