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Pays d'origine: Italie

## FORMATION

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- |      |  |
|------|--|
| 2017 | Qualification de Professeur Titulaire en Recherche Opérationnelle du Ministère Italien de l'Education, Italian Ministry of Education, Italie |
| 2002 | PhD en Méthodes de Calcul pour les Décisions et les Prévisions Economiques et Financières, Università degli studi di Bergamo, Italie         |

## EXPERIENCE PROFESSIONNELLE

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### Positions académiques principales

- |                |  |
|----------------|--|
| 2021 - Présent | Professeur, ESSEC Business School, France  |
| 2019 - 2021    | Professeur Associé en Recherche Operationelle, ESSEC Business School, France               |
| 2014 - 2019    | Professeur associé en Recherche Operationelle, Università degli Studi di Brescia, Italie   |
| 2005 - 2014    | Professeur assistant en Recherche Operationelle, Università degli Studi di Brescia, Italie |

### Autres affiliations académiques

- |             |  |
|-------------|--|
| 2022 - 2025 | Doyen Associé en charge des Chaires et Centres d'Excellence, ESSEC Business School, France |
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## PUBLICATIONS

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### Articles

- ANDREA MOR, A., ARCHETTI, C., OLA JABALI, O., ALBERTO SIMONETTO, A. et 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. et 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. et 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. et 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. et 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. et LJUBIC, I. (2022). Comparison of formulations for the inventory routing problem. *European Journal of Operational Research*, In press.
- HUERTA-MUÑOZ, D.L., ARCHETTI, C., FERNÁNDEZ, E. et 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.
- DI PLACIDO, A., ARCHETTI, C. et CERRONE, C. (2022). A genetic algorithm for the close-enough traveling salesman problem with application to solar panels diagnostic reconnaissance. *Computers & Operations Research*, 145, pp. 105831.
- PARAPPATHODI, J. et ARCHETTI, C. (2022). Crowdsourced humanitarian relief vehicle routing problem. *Computers & Operations Research*, 148, pp. 105963.
- ARCHETTI, C. et 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. et 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. et 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. et NAJY, W. (2021). The Fixed-Partition Policy Inventory Routing Problem. *Transportation Science*, 55(2), pp. 275-552.
- ANGELELLI, E., ARCHETTI, C., FILIPPI, C. et VINDIGNI, M. (2021). A dynamic and probabilistic orienteering problem. *Computers & Operations Research*, 136, pp. 105454.
- ARCHETTI, C., SPERANZA, M.G., BOCCIA, M., SFORZA, A. et 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.
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- ARCHETTI, C. et PEIRANO, L. (2020). Air intermodal freight transportation: the freight forwarder service problem. *Omega*, 94, pp. 102040.
- ANGELELLI, E., ARCHETTI, C. et PEIRANO, L. (2020). A Matheuristic for the Air Transportation Freight Forwarder Service Problem. *Computers & Operations Research*, 123.
- ARCHETTI, C., SPERANZA, M.G. et EMIRENA GARRAFA, E. (2020). Managing an automated clinical laboratory: Optimization challenges. *EURO Journal on Decision Processes*, 8, pp. 41-60.

- ARCHETTI, C., COELHO, L.C. et SPERANZA, M.G. (2019). An Exact Algorithm for the Inventory Routing Problem with Logistic Ratio. *Transportation Research Part E: Logistics and Transportation Review*, 131, pp. 96-107.
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- DARVISH, M., ARCHETTI, C., COELHO, L.C. et SPERANZA, M.G. (2019). Flexible two-echelon location routing problem. *European Journal of Operational Research*, 277(3), pp. 1124-1136.
- DARVISH, M., ARCHETTI, C. et COELHO, L.C. (2019). Trade-offs between environmental and economic performance in production and inventory-routing problems. *International Journal of Production Economics*, 217, pp. 269-280.
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- ARCHETTI, C., FEILLET, D., MOR, A. et SPERANZA, M.G. (2018). An iterated local search for the Traveling Salesman Problem with release dates and completion time minimization. *Computers & Operations Research*, 98, pp. 24-37.
- ABSI, N., ARCHETTI, C., DAUZÈRE-PÉRÈS, S., FEILLET, D. et SPERANZA, M.G. (2018). Comparing sequential and integrated approaches for the production routing problem. *European Journal of Operational Research*, 269(2), pp. 633-646.
- ARCHETTI, C., SPERANZA, M.G. et WEYLAND, D. (2018). A simulation study of an on-demand transportation system. *International Transactions in Operational Research*, 25(4), pp. 1137-1161.
- ARCHETTI, C., CHRISTIANSEN, M. et GRAZIA SPERANZA, M. (2018). Inventory routing with pickups and deliveries. *European Journal of Operational Research*, 268(1), pp. 314-324.
- ARCHETTI, C., CARRABS, F. et CERULLI, R. (2018). The Set Orienteering Problem. *European Journal of Operational Research*, 267(1), pp. 264-272.
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- ARCHETTI, C., BIANCHESSI, N. et SPERANZA, M.G. (2015). A branch-price-and-cut algorithm for the commodity constrained split delivery vehicle routing problem. *Computers & Operations Research*, 64, pp. 1-10.
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- ARCHETTI, C., FEILLET, D. et SPERANZA, M.G. (2015). Complexity of routing problems with release dates. *European Journal of Operational Research*, 247(3), pp. 797-803.
- ABSI, N., ARCHETTI, C., DAUZÈRE-PÉRÈS, S. et FEILLET, D. (2015). A Two-Phase Iterative Heuristic Approach for the Production Routing Problem. *Transportation Science*, 49(4), pp. 784-795.
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- ARCHETTI, C., BIANCHESSI, N. et 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. et 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. et SPERANZA, M.G. (2014). The directed profitable location Rural Postman Problem. *European Journal of Operational Research*, 236(3), pp. 811-819.
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- ANGELELLI, E., ARCHETTI, C. et VINDIGNI, M. (2014). The Clustered Orienteering Problem. *European Journal of Operational Research*, 238(2), pp. 404-414.

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- ARCHETTI, C., BIANCHESSI, N., IRNICH, S. et SPERANZA, M.G. (2014). Formulations for an inventory routing problem. *International Transactions in Operational Research*, 21(3), pp. 353-374.
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- ARCHETTI, C. et SPERANZA, M.G. (2014). A survey on matheuristics for routing problems. *EURO Journal on Computational Optimization*, 2(4), pp. 223-246.
- ARCHETTI, C., PISINGER, D. et SPERANZA, M.G. (2014). Special issue on: "matheuristics". *EURO Journal on Computational Optimization*, 2(4), pp. 221-222.
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- ARCHETTI, C., BIANCHESSI, N. et SPERANZA, M.G. (2013). Optimal solutions for routing problems with profits. *Discrete Applied Mathematics*, 161(4-5), pp. 547-557.
- ARCHETTI, C., BIANCHESSI, N. et SPERANZA, M.G. (2013). The capacitated team orienteering problem with incomplete service. *Optimization Letters*, 7, pp. 1405-1417.
- ARCHETTI, C., DOERNER, K.F. et TRICOIRE, F. (2013). A heuristic algorithm for the free newspaper delivery problem. *European Journal of Operational Research*, 230(2), pp. 245-257.
- ARCHETTI, C., BERTAZZI, L., HERTZ, A. et SPERANZA, M.G. (2012). A Hybrid Heuristic for an Inventory Routing Problem. *INFORMS Journal on Computing*, 24(1), pp. 101-116.
- ARCHETTI, C. et SPERANZA, M.G. (2012). Vehicle routing problems with split deliveries. *International Transactions in Operational Research*, 19(1-2), pp. 3-22.
- GOEL, A., ARCHETTI, C. et SAVELSBERGH, M. (2012). Truck driver scheduling in Australia. *Computers & Operations Research*, 39(5), pp. 1122-1132.
- CÔTÉ, J.F., ARCHETTI, C., SPERANZA, M.G., GENDREAU, M. et POTVIN, J.Y. (2012). A branch-and-cut algorithm for the pickup and delivery traveling salesman problem with multiple stacks. *Networks*, 60(4), pp. 212-226.
- ARCHETTI, C., BERTAZZI, L., PALETTA, G. et SPERANZA, M.G. (2011). Analysis of the maximum level policy in a production-distribution system. *Computers & Operations Research*, 38(12), pp. 1731-1746.
- ARCHETTI, C., BIANCHESSI, N. et 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. et SPERANZA, M.G. (2011). Complexity of the VRP and SDVRP. *Transportation Research Part C: Emerging Technologies*, 19(5), pp. 741-750.
- ARCHETTI, C., BOUCHARD, M. et DESAULNIERS, G. (2011). Enhanced Branch and Price and Cut for Vehicle Routing with Split Deliveries and Time Windows. *Transportation Science*, 45(3), pp. 285-298.
- ARCHETTI, C., BERTAZZI, L. et SPERANZA, M.G. (2010). Reoptimizing the 0–1 knapsack problem. *Discrete Applied Mathematics*, 158(17), pp. 1879-1887.
- ARCHETTI, C., FEILLET, D., HERTZ, A. et 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. et SPERANZA, M.G. (2010). Exact solutions to the double travelling salesman problem with multiple stacks. *Networks*, 56(4), pp. 229-243.
- ARCHETTI, C., FEILLET, D., HERTZ, A. et SPERANZA, M.G. (2009). The capacitated team orienteering and profitable tour problems. *Journal of the Operational Research Society*, 60(6), pp. 831-842.
- ARCHETTI, C. et SAVELSBERGH, M.W.P. (2009). The Trip Scheduling Problem. *Transportation Science*, 43(4), pp. 417-431.
- ARCHETTI, C., SAVELSBERGH, M.W.P. et SPERANZA, M.G. (2008). To split or not to split: that is the question. *Transportation Research Part E: Logistics and Transportation Review*, 44(1), pp. 114-123.
- ARCHETTI, C., SPERANZA, M.G. et SAVELSBERGH, M.W.P. (2008). An Optimization-Based Heuristic for the Split Delivery Vehicle Routing Problem. *Transportation Science*, 42(1), pp. 22-31.
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- ARCHETTI, C., BERTAZZI, L., LAPORTE, G. et SPERANZA, M.G. (2007). A Branch-and-Cut Algorithm for a Vendor-Managed Inventory-Routing Problem. *Transportation Science*, 41(3), pp. 382-391.
- ARCHETTI, C., HERTZ, A. et SPERANZA, M.G. (2007). Metaheuristics for the team orienteering problem. *Journal of Heuristics*, 13(1), pp. 49-76.
- ARCHETTI, C., SPERANZA, M.G. et HERTZ, A. (2006). A Tabu Search Algorithm for the Split Delivery Vehicle Routing Problem. *Transportation Science*, 40(1), pp. 64-73.
- ARCHETTI, C., SAVELSBERGH, M.W.P. et SPERANZA, M.G. (2006). Worst-Case Analysis for Split Delivery Vehicle Routing Problems. *Transportation Science*, 40(2), pp. 226-234.
- ARCHETTI, C., MANSINI, R. et SPERANZA, M.G. (2005). Complexity and Reducibility of the Skip Delivery Problem. *Transportation Science*, 39(2), pp. 182-187.
- ARCHETTI, C. et SPERANZA, M.G. (2004). Vehicle routing in the 1-skip collection problem. *Journal of the Operational Research Society*, 55(7), pp. 717-727.
- ARCHETTI, C., BERTAZZI, L. et SPERANZA, M.G. (2003). Reoptimizing the traveling salesman problem. *Networks*, 42(3), pp. 154-159.

### Chapitres d'ouvrage

- ARCHETTI, C. et SPERANZA, M.G. (2015). Arc routing problems with profits. Dans: Ángel Corberán, Gilbert Laporte eds. *Arc Routing: Problems, Methods, and Applications*. 1st ed. Philadelphia: SIAM, pp. 281-300.
- ARCHETTI, C., SPERANZA, M.G. et VIGO, D. (2014). Vehicle routing problems with profits. Dans: Paolo Toth, Daniele Vigo eds. *Vehicle Routing: Problems, Methods, and Applications*. 2nd ed. Philadelphia: SIAM, pp. 273-298.
- ARCHETTI, C. et M. GRAZIA SPERANZA, M.G. (2008). The split delivery vehicle routing problem: a survey. Dans: Golden B., Raghavan S., Wasil E. eds. *The Vehicle Routing Problem: Latest Advances and New Challenges*. 1st ed. Boston: Springer, pp. 103-122.
- ARCHETTI, C. et M. GRAZIA SPERANZA, M.G. (2005). Collection of waste with single load trucks: a real case. Dans: Fleischmann B., Klose A. eds. *Distribution Logistics, Lecture Notes in Economics and Mathematical Systems*. 1st ed. Berlin: Springer, pp. 105-119.

## Conférences

DELLE DONNE, D., ALFANDARI, L., ARCHETTI, C. et LJUBIC, I. (2022). Freight-on-Transit for urban last-mile deliveries: A Strategic Planning Approach. Dans: International Workshop on Freight Transportation and Logistics (ODYSSEUS). Tanger.

ARCHETTI, C. et LJUBIC, I. (2021). Aggregated Formulations for the Inventory Routing Problem. Dans: 2021 Optimization in Artificial Intelligence and Data Sciences (ODS). Rome.

DELLE DONNE, D., ALFANDARI, L., ARCHETTI, C. et LJUBIC, I. (2021). Freight on Public Transport: Strategical decision making with mixed integer programming. Dans: European Conference on Operational Research (EURO). Athens.

ARCHETTI, C. (2020). Routing problems in last-mile delivery services. Dans: 4th AIROYoung Workshop: New Advances in Optimization, Machine Learning and Data Science. Bolzano.

ARCHETTI, C. (2019). Emerging problems and challenges in routing. Dans: SPOC 5. Paris.

ARCHETTI, C. (2019). Vehicle routing problems and recent business trends. Dans: 33rd Annual Conference of the Belgian Operational Research Society (ORBEL 33). Hasselt.

ARCHETTI, C. (2019). A kernel search heuristic for the multi-vehicle inventory routing problem. Dans: 32nd Conference of the European Chapter on Combinatorial Optimization (ECCO XXXII). St. Julian's.

ARCHETTI, C. (2019). A kernel search heuristic for the multi-vehicle inventory. Dans: ODS XXXII. Genova.

## Invité dans une conférence académique

ARCHETTI, C. (2022). How to build a successful research work in 2021: Focus on routing and logistics. Dans: EURO 2022, 32nd European Conference on Operational Research.

ARCHETTI, C. (2021). The fixed-partition policy inventory routing problem. Dans: ROADEF 2021.

ARCHETTI, C. (2021). The dynamic traveling salesman problem with release dates. Dans: Workshop 'New trends in sustainable last-mile delivery'.

ARCHETTI, C. (2021). Formulations and exact solution approaches for the inventory routing problem. Dans: International Conference on Operations Research 2021.

ARCHETTI, C. (2021). The bi-objective long-haul transportation problem on a road network. Dans: 27th International Conference on Principles and Practice of Constraint Programming.

## Préfaces de revue

ARCHETTI, C., BERTAZZI, L., MILANIČ, M., SCHINDL, D. et VARONE, S. (2018). Preface: Special Issue on the Ninth International Colloquium on Graphs and Optimization (GO IX), 2014. *Discrete Applied Mathematics*, 234, pp. 1-2.

## Documents de travail

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

## Presse

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

ALFANDARI, L., ARCHETTI, C. et LJUBIC, I. (2021). Sustainable city logistics. *ESSEC Knowledge*.

## AUTRES ACTIVITES DE RECHERCHE

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### Direction d'une revue

Depuis 2023 Networks

### Co-direction d'une revue

Depuis 2020 Omega

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

Depuis 2018 Transportation Science

2016 - 2018 Computers & Operations Research

Depuis 2010 Networks

### Membre d'un comité de lecture

Depuis 2018 European Journal of Operational Research

### Affiliations

Depuis 2018 VIP3 de EURO, Association of European Operational Research Societies, en charge des publications et de la communication

### Supervision de thèses / HDR

2022 U. BREUNIG (Université de Vienne), Membre de jury

2021 D. DUMEZ, Membre de jury

2021 M. A. VAN ZON, Membre de jury

2021 F. TORRES, Membre de jury

2020 L. PEIRANO (Università degli studi di Bergamo), Directeur de thèse

2020 N. GASTALDON (University of Padova), Membre de jury

2020 F. LAUREANA (University of Salerno), Rapporteur

2020 A. MASONE, Membre de jury

2020 G. MARQUES, Membre de jury

2020 E. ORM HELLSTEN, Membre de jury

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

2019 P. MATL (Université de Vienne), Membre de jury

2019 A. BALLER (University of Amsterdam), Membre de jury

2019 Y. YUAN (École Centrale Lille), Membre de jury

2019 K. FARIAS DE ARAUJO (Université Grenoble Alpes), Membre de jury



- 2018 D. HUERTA-MUNOZ (Universitat Politècnica de Catalunya), Co-directeur de thèse
- 2017 H. BEN TICHA (École des Mines de Saint-Etienne), Membre de jury
- 2016 C. TILK (University of Mainz), Membre de jury
- 2016 B. SANTOS HERNANDEZ (University of La Laguna), Membre de jury
- 2016 M. DARVISH (Université Laval), Membre de jury
- 2015 A. HEMMATI (Norwegian University Of Science and Technology), Membre de jury
- 2013 A. PFEFFER (Tel Aviv University), Rapporteur
- 2012 M. STALHANE (Norwegian University Of Science and Technology), Membre de jury
- 2011 M. TRESOLDI (Università degli studi di Milano), Rapporteur
- 202 A. MASONE (Università di Napoli Federico II), Rapporteur
- N. MAMMADOV (Università degli Studi di Brescia), Directeur de thèse
- J. PARAPPATHODI (ESSEC Business School), Directeur de thèse
- M. MARTINELLO (Università degli Studi di Brescia), Directeur de thèse
- M. PETRIS (École Centrale Lille), Co-directeur de thèse
- M. TROTTA (École des Mines de Saint-Etienne), Co-directeur de thèse
- A. ANDREA DI PLACIDO (University of Molise), Co-directeur de thèse
- M. PUNAM MANDAL (ESSEC Business School), Co-directeur de thèse
- Y. LI (ESSEC Business School), Co-directeur de thèse

### Autres activités de recherche

Depuis 2021 Interview from Elsevier