

# Claudia ARCHETTI

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## INTERETS DE RECHERCHE

Sciences de la décision, Systèmes d'aide à la décision, Mathématiques, Recherche opérationnelle

## FORMATION

- 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

### 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

## PUBLICATIONS

### Articles

- DIABAT, A., BIANCHESSI, N. et 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. et 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.

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NHO MINH, D., ARCHETTI, C. et 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. 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.

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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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ARCHETTI, C., BERTAZZI, L., LAGANÀ, D. et VOCATURO, F. (2017). The Undirected Capacitated General Routing Problem with Profits. *European Journal of Operational Research*, 257(3), pp. 822-833.

ARCHETTI, C., CAMPBELL, A.M. et SPERANZA, M.G. (2016). Multicommodity vs. Single-Commodity Routing. *Transportation Science*, 50(2), pp. 461-472.

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ARCHETTI, C., BERTAZZI, L. et 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.

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- 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.
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- 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.
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## Chapitres d'ouvrage

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## Conférences

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ARCHETTI, C., CATTARUZZA, D., PETRIS, M., OGIER, M. et SEMET, F. (2023). A Branch-Price-and-Cut algorithm for the Multi-Commodity two-echelon Distribution Problem. Dans: 2023 SyncroTrans. Lille.

CERULLI, M., DOMENICO, S., SORGENTE, C., ARCHETTI, C. et LJUBIC, I. (2023). Mathematical Programming Formulations for the Collapsed k-Core Problem. Dans: 2023 Mathematics & Applications, Winter Meeting. Lisbon.

DELLE DONNE, D., SANTINI, A. et ARCHETTI, C. (2022). Extended formulations and column generation for the Freight on Transport problem. Dans: European Conference on Operational Research (EURO). Espoo.

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

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.

DELLE DONNE, D., ARCHETTI, C. et SANTINI, A. (2022). An extended IP formulation for the Freight on Transport problem. Dans: Joint ALIO/EURO International Conference on Applied Combinatorial Optimization. Viña del Mar.

ARCHETTI, C., DELLE DONNE, D. et SANTINI, A. (2022). An extended IP formulation for the Freight on Transport problem. Dans: Triennial Symposium on Transportation Analysis (TRISTAN). Mauritius.

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

ARCHETTI, C., ALFANDARI, L. et ALFANDARI, L. (2022). Capacity Design and Resource Allocation in Online Food Delivery Platforms. Dans: International Workshop on Freight Transportation and Logistics (Odysseus 2022). Tanger.

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

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. et LJUBIC, I. (2022). Comparison of Formulations for the Inventory Routing Problem. Dans: 3rd Workshop on Combinatorial Optimization. Online.
- 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.

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- ARCHETTI, C., CORDEAU, J.F. et DESAULNIERS, G. (2020). Introduction to the special issue on combining optimization and machine learning: Application in vehicle routing, network design and crew scheduling. *EURO Journal on Transportation and Logistics*, 9(4), pp. 100024.
- 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

- DELLE DONNE, D., ARCHETTI, C., LJUBIC, I. et ALFANDARI, L. (2023). When public transport delivers. *ESSEC Knowledge*.
- 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

2020 - 2022 Omega

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

Depuis 2018 Transportation Science

2016 - 2018 Computers & Operations Research

2010 - 2022 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

2023	M. BEN AHMED, Membre de jury
2023	S. ATAÇ, Membre de jury
2023	A. HASSANZADEH (ESSEC Business School), Président de jury
2023	D. BISWAS (ESSEC Business School), Membre de jury
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 (Universita 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  
Y. SU, Membre de jury

#### Autres activités de recherche

Depuis 2021 Interview from Elsevier