

Ivana LJUBIC

Professeur

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Département: Systèmes d'Information, Data
Analytics et Opérations
Campus de Cergy

DIPLÔMES

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|------|--|
| 2004 | Ph.D. en Informatique
(TU Wien Autriche) |
| 2013 | Habilitation en Recherche des Opérations
(Université de Vienne Autriche) |
| 2000 | Master of Science degree (MSc), Department for Optimization and Numerical
Analysis, Faculty of Mathematics
(University of Belgrade Serbie) |

CARRIÈRE

AUTRES POSITIONS ACADÉMIQUES

- | | |
|-------------------|---|
| 2017 - 2021-08-31 | Directrice Académique du programme EMBA ESSEC & Mannheim (ESSEC
Business School France) |
| 2016 - 2018-01-01 | Membre du Comité Scientifique (ESSEC Business School France) |
| 2013 - 2015-01-01 | Member of the doctoral advisory board at ISOR (Université de Vienne Autriche) |
| 2015 - 2015-02-01 | Professeur visitant (Universidad Adolfo Ibáñez Chili) |
| 2014 - 2014-09-01 | Professeur visitant (Université Paris Dauphine-PSL France) |
| 2011 - 2012-03-01 | Professeur visitant (University of Maryland États-Unis) |
| 2024 - Présent | Coordinator of PhD concentration in Operations Management and Operations
Research (ESSEC Business School France) |

POSITIONS ACADÉMIQUES PRINCIPALES

- 2011 - 2015-03-31 Professeur associé (Université de Vienne Autriche)
- 2007 - 2010-11-01 Post-Doc Researcher & Lecturer, ISOR (Université de Vienne Autriche)
- 2016 - Présent Professeur (ESSEC Business School France)
- 2015 - 2016-08-31 Professeur associé (ESSEC Business School France)

AUTRES POSITIONS

- 2000 - 2004-10-01 Research and Teaching Assistant (PhD candidate) (TU Wien Autriche)
- 2018 - 2019-01-01 Member of the “Task Force: future directions, strategy, evaluation” (ESSEC Business School France)
- 2012 - 2013-01-01 Professeur visitant (Technische Universität Berlin Allemagne)
- 2012 - 2012-09-01 Professeur visitant (TU Dortmund Universität Allemagne)

PUBLICATIONS

ARTICLES

[LEITNER, M., LJUBIC, I., LUIPERSBECK, M. et SINNL, M. \(2018\). Decomposition Methods for the Two-Stage Stochastic Steiner Tree Problem. *Computational Optimization and Applications*, 69\(3\), pp. 713-752.](#)

[LEITNER, M., LJUBIC, I., RIEDLER, M. et RUTHMAIR, M. \(2020\). Exact Approaches for Network Design Problem with Relays. *Omega*, 91.](#)

[FISCHETTI, M., LJUBIC, I. et SINNL, M. \(2017\). Redesigning Benders Decomposition for Large-Scale Facility Location. *Management Science*, 63\(7\), pp. 2146-2162.](#)

[ÁLVAREZ-MIRANDA, E., LJUBIC, I., LUIPERSBECK, M. et SINNL, M. \(2017\). Solving Minimum-Cost Shared Arborescence Problems. *European Journal of Operational Research*, 258\(3\), pp. 887-901.](#)

[LJUBIC, I., MUTZEL, P. et ZEY, B. \(2017\). Stochastic Survivable Network Design Problems: Theory and Practice. *European Journal of Operational Research*, 256\(2\), pp. 333-348.](#)

- [ALFANDARI, L., DAVIDOVIC, T., FURINI, F., LJUBIC, I., MARAS, V. et MARTIN, S. \(2019\). Tighter MIP models for Barge Container Ship Routing. *Omega*, 82, pp. 38-54.](#)
- [LEITNER, M., LJUBIC, I., SINNL, M. et WERNER, A. \(2016\). ILP Heuristics and a New Exact Method for Bi-Objective 0/1 ILPs: Application to FTTx-Network Design. *Computers & Operations Research*, 72, pp. 128-146.](#)
- [FISCHETTI, M., LJUBIC, I., MONACI, M. et SINNL, M. \(2018\). On the Use of Intersection Cuts for Bilevel Optimization. *Mathematical Programming*, 172\(1-2\), pp. 77-103.](#)
- [LJUBIC, I. et MORENO, E. \(2018\). Outer Approximation and Submodular Cuts for Maximum Capture Facility Location Problems with Random Utilities. *European Journal of Operational Research*, 266\(1\), pp. 46-56.](#)
- [ÁLVAREZ-MIRANDA, E., FERNÁNDEZ, E. et LJUBIC, I. \(2015\). The Recoverable Robust Facility Location Problem. *Transportation Research Part B: Methodological*, 79\(1\), pp. 93-120.](#)
- [FISCHETTI, M., LEITNER, M., LJUBIC, I., LUIPERSBECK, M., MONACI, M. et RESCH, M. \(2017\). Thinning out Steiner Trees: A Node-Based Model for Uniform Edge Costs. *Mathematical Programming Computation*, 9\(2\), pp. 203-229.](#)
- [LEITNER, M., LJUBIC, I., LUIPERSBECK, M. et SINNL, M. \(2018\). A Dual Ascent-Based Branch-and-Bound Framework for the Prize-Collecting Steiner Tree and Related Problems. *INFORMS Journal on Computing*, 30\(2\), pp. 402-420.](#)
- [LEITNER, M., LJUBIC, I., SALAZAR-GONZALEZ, J.J. et SINNL, M. \(2017\). An Algorithmic Framework for the Exact Solution of Tree-Star Problems. *European Journal of Operational Research*, 1\(261\), pp. 54-66.](#)
- [FURINI, F., LJUBIC, I. et SINNL, M. \(2017\). An Effective Dynamic Programming Algorithm for the Minimum-Cost Maximal Knapsack Packing Problem. *European Journal of Operational Research*, 262\(2\), pp. 438-448.](#)
- [CORDEAU, J.F., FURINI, F. et LJUBIC, I. \(2019\). Benders Decomposition for Very Large Scale Partial Set Covering and Maximal Covering Location Problems. *European Journal of Operational Research*, 275\(3\), pp. 882-896.](#)
- [LJUBIC, I. et RAIDL, G.R. \(2003\). A Memetic Algorithm for Minimum-Cost Vertex-Biconnectivity Augmentation of Graphs. *Journal of Heuristics*, 9\(5\), pp. 401-428.](#)
- [FISCHETTI, M., LJUBIC, I., MONACI, M. et SINNL, M. \(2017\). A New General-Purpose Algorithm for Mixed-Integer Bilevel Linear Programs. *Operations Research*, 65\(6\), pp. 1615-1637.](#)
- [BLEY, A., LJUBIC, I. et MAURER, O. \(2017\). A Node-Based ILP Formulation for the Node-Weighted Dominating Steiner Problem. *Networks*, 69\(1\), pp. 33-51.](#)
- [SINNL, M. et LJUBIC, I. \(2016\). A Node-Based Layered Graph Approach for the Steiner Tree](#)

[Problem with Revenues, Budget and Hop-Constraints. *Mathematical Programming Computation*, 8\(4\), pp. 461–490.](#)

[FICHETTI, M., LJUBIC, I. et SINNL, M. \(2016\). Benders Decomposition without Separability: A Computational Study for Capacitated Facility Location Problems. *European Journal of Operational Research*, 253\(3\), pp. 557-569.](#)

[LJUBIC, I., CHIMANI, M., KANDYBA, M. et MUTZEL, P. \(2009\). Obtaining optimal k-cardinality trees fast. *ACM Journal of Experimental Algorithmics \(JEA\)*, 14\(5\), pp. 5.1-5.23.](#)

[LJUBIC, I., TOŠIĆ, D., FILIPOVIC, V. et KRATICA, J. \(2001\). Solving the simple plant location problem by genetic algorithms. *RAIRO - Operations Research*, 35\(1\), pp. 127-142.](#)

[RAIDL, G.R. et LJUBIC, I. \(2002\). Evolutionary Local Search for the Edge-Biconnectivity Augmentation Problem. *Information Processing Letters*, 82\(1\), pp. 39-45.](#)

[LJUBIC, I., WEISKIRCHER, R., PFERSCHY, U., KLAU, G., MUTZEL, P. et FISCHETTI, M. \(2006\). An Algorithmic Framework for the Exact Solution of the Prize-Collecting Steiner Tree Problem. *Mathematical Programming*, 105\(2\), pp. 427-449.](#)

[LJUBIC, I. \(2010\). A branch-and-cut-and-price algorithm for vertex-biconnectivity augmentation. *Networks*, 56\(3\), pp. 169-182.](#)

[CHIMANI, M., KANDYBA, M., LJUBIC, I. et MUTZEL, P. \(2010\). Orientation-based models for \$\{0,1,2\}\$ -survivable network design: theory and practice. *Mathematical Programming*, 124\(1\), pp. 413-440.](#)

[LJUBIC, I. et CHEN, S. \(2010\). The regenerator location problem. *Networks*, 55\(3\), pp. 205-220.](#)

[GOLLOWITZER, S. et LJUBIC, I. \(2011\). MIP models for connected facility location: A theoretical and computational study. *Computers & Operations Research*, 38\(2\), pp. 435-449.](#)

[LJUBIC, I., PUTZ, P. et SALAZAR-GONZALEZ, J.J. \(2012\). Exact approaches to the single-source network loading problem. *Networks*, 59\(1\), pp. 89-106.](#)

[LJUBIC, I. et GOLLOWITZER, S. \(2012\). Layered Graph Approaches to the Hop Constrained Connected Facility Location Problem. *INFORMS Journal on Computing*, 25\(2\), pp. 256-270.](#)

[FROMMLET, F., LJUBIC, I., BJÖRK ARNARDÓTTIR, H. et BOGDAN, M. \(2012\). QTL Mapping Using a Memetic Algorithm with Modifications of BIC as Fitness Function. *Statistical Applications in Genetics and Molecular Biology*, 11\(4\).](#)

[GOLLOWITZER, S., GENDRON, B. et LJUBIC, I. \(2013\). A cutting plane algorithm for the Capacitated Connected Facility Location Problem. *Computational Optimization and Applications*, 55\(3\), pp. 647-674.](#)

[ALVAREZ-MIRANDA, E., LJUBIC, I. et TOTH, P. \(2013\). A note on the Bertsimas & Sim algorithm](#)

[for robust combinatorial optimization problems. *4OR: A Quarterly Journal of Operations Research*, 11\(4\), pp. 349-360.](#)

[GOLLOWITZER, S., GOUVEIA, L. et LJUBIC, I. \(2013\). Enhanced Formulations and Branch-and-Cut for the Two Level Network Design Problem with Transition Facilities. *European Journal of Operational Research*, 225\(2\), pp. 211-222.](#)

[ALVAREZ-MIRANDA, E., LJUBIC, I. et TOTH, P. \(2013\). Exact Approaches for Solving Robust Prize-Collecting Steiner Tree Problems, *European Journal of Operational Research*. *European Journal of Operational Research*, 229\(3\), pp. 599-612.](#)

[BLEY, A., LJUBIC, I. et MAURER, O. \(2013\). Lagrangian decompositions for the two-level FTTx network design problem. *Computational Optimization and Applications*, 1\(3\), pp. 221-252.](#)

[LJUBIC, I., PUTZ, P. et SALAZAR-GONZALEZ, J.J. \(2014\). A MIP-based Heuristic Approach to solve a Prize-Collecting Local Access Network Design Problem. *European Journal of Operational Research*, 235\(3\), pp. 727-739.](#)

[GOUVEIA, L., LEITNER, M. et LJUBIC, I. \(2014\). Hop constrained Steiner trees with multiple root nodes. *European Journal of Operational Research*, 236\(1\), pp. 100-112.](#)

[LEITNER, M., LJUBIC, I. et SINNL, M. \(2014\). The bi-objective prize-collecting Steiner tree problem. *INFORMS Journal on Computing*, 27\(1\), pp. 118-134.](#)

[ÁLVAREZ-MIRANDA, E., LJUBIC, I. et RAGHAVAN, S. \(2014\). The Recoverable Robust Two-Level Network Design Problem. *INFORMS Journal on Computing*, 27\(1\), pp. 1-19.](#)

[CHEN, S., LJUBIC, I. et RAGHAVAN, S. \(2015\). The Generalized Regenerator Location Problem. *INFORMS Journal on Computing*, 27\(2\), pp. 204-220.](#)

[GOUVEIA, L., LEITNER, M. et LJUBIC, I. \(2015\). The Two-Level Diameter Constrained Spanning Tree Problem. *Mathematical Programming*, 150\(1\), pp. 49-78.](#)

[FURINI, F., LJUBIC, I., MARTIN, S. et SAN SEGUNDO, P. \(2019\). The Maximum Clique Interdiction Problem. *European Journal of Operational Research*, 277\(1\), pp. 112-127.](#)

[FISCHETTI, M., LJUBIC, I., MONACI, M. et SINNI, M. \(2019\). Interdiction Games and Monotonicity, with Application to Knapsack Problems. *INFORMS Journal on Computing*, 31\(2\), pp. 390-410.](#)

[ARULSELVAN, A., BLEY, A. et LJUBIC, I. \(2019\). The Incremental Connected Facility Location Problem. *Computers & Operations Research*, 112.](#)

[SAN SEGUNDO, P., CONIGLIO, S., FURINI, F. et LJUBIC, I. \(2019\). A new branch-and-bound algorithm for the maximum edge-weighted clique problem. *European Journal of Operational Research*, 278\(1\), pp. 76-90.](#)

[LEITNER, M., LJUBIC, I., SALAZAR-GONZALEZ, J.J. et SINNL, M. \(2018\). The Connected Facility](#)

[Location Polytope. *Discrete Applied Mathematics*, 234, pp. 151-167.](#)

[LJUBIC, I., FURINI, F., MALAGUTI, E. et PARONUZZI, P. \(2020\). On Integer and Bilevel Formulations for the k-Vertex Cut Problem. *Mathematical Programming Computation*, 12, pp. 133-164.](#)

[EHRGOTT, M., LJUBIC, I. et PARRAGH, S.N. \(2017\). Feature cluster: Recent advances in exact methods for multi-objective optimisation. *European Journal of Operational Research*, 260\(3\), pp. 805-806.](#)

[ÁLVAREZ-MIRANDA, E., GOYCOOLEA, M., LJUBIC, I. et SINNL, M. \(2021\). The Generalized Reserve Set Covering Problem with Connectivity and Buffer Requirements. *European Journal of Operational Research*, 289\(3\), pp. 1013-1029.](#)

[BRANDSTÄTTER, G., LEITNER, M. et LJUBIC, I. \(2020\). Location of Charging Stations in Electric Car Sharing Systems. *Transportation Science*, 54\(5\), pp. 1408-1438.](#)

[GOUVEIA, L., LEITNER, M. et LJUBIC, I. \(2020\). A polyhedral study of the diameter constrained minimum spanning tree problem. *Discrete Applied Mathematics*, 285, pp. 364-379.](#)

[LJUBIC, I. \(2021\). Solving Steiner trees: Recent advances, challenges, and perspectives. *Networks*, 77\(2\), pp. 177-204.](#)

[ALFANDARI, L., HASSANZADEH, A. et LJUBIC, I. \(2021\). An Exact Method for Assortment Optimization under the Nested Logit Model. *European Journal of Operational Research*, 291\(3\), pp. 830-845.](#)

[FURINI, F., LJUBIC, I., MALAGUTI, E. et PARONUZZI, P. \(2022\). Casting light on the hidden bilevel combinatorial structure of the capacitated vertex separator problem. *Operations Research*, 70\(4\), pp. 2399–2420.](#)

[FURINI, F., LJUBIC, I., SAN SEGUNDO, P. et ZHAO, Y. \(2021\). A branch-and-cut algorithm for the Edge Interdiction Clique Problem. *European Journal of Operational Research*, 294\(1\), pp. 54-69.](#)

[LJUBIC, I., MOUACI, A., PERROT, N. et GOURDIN, E. \(2021\). Benders decomposition for a node-capacitated Virtual Network Function placement and routing problem. *Computers & Operations Research*, 130\(105227\).](#)

[ALFANDARI, L., LJUBIC, I. et DE MELO DA SILVA, M. \(2022\). A tailored Benders decomposition approach for last-mile delivery with autonomous robots. *European Journal of Operational Research*, 299\(2\), pp. 510-525.](#)

[KESHVARI FARD, M., LJUBIC, I. et PAPIER, F. \(2022\). Budgeting in International Humanitarian Organizations. *Manufacturing & Service Operations Management*, 24\(3\), pp. 1562-1577.](#)

[ARCHETTI, C. et LJUBIC, I. \(2022\). Comparison of formulations for the Inventory Routing Problem. *European Journal of Operational Research*, 303\(3\), pp. 997-1008.](#)

[KLEINERT, T., LABBÉ, M., LJUBIC, I. et SCHMIDT, M. \(2021\). A Survey on Mixed-Integer Programming Techniques in Bilevel Optimization. *European Journal on Computational Optimization*, 9, pp. 100007.](#)

[FERNÁNDEZ, E., LEITNER, M., LJUBIC, I. et RUTHMAIR, M. \(2022\). Arc Routing with Electric Vehicles: Dynamic Charging and Speed-Dependent Energy Consumption. *Transportation Science*, 56\(5\), pp. 1111-1408.](#)

[CONIGLIO, S., FURINI, F. et LJUBIC, I. \(2022\). Submodular maximization of concave utility functions composed with a set-union operator with applications to maximal covering location problems. *Mathematical Programming*, 196\(1-2\), pp. 9-56.](#)

[LEITNER, M., LJUBIC, I., MONACI, M., SINNL, M. et TANINMIS, K. \(2023\). An Exact Method for Binary Fortification Games. *European Journal of Operational Research*, 307\(3\), pp. 1026-1039.](#)

[DELLE DONNE, D., ARCHETTI, C., ALFANDARI, L. et LJUBIC, I. \(2023\). Freight-on-Transit for urban last-mile deliveries: A strategic planning approach. *Transportation Research Part B: Methodological*, 169, pp. 53-81.](#)

[BECK, Y., LJUBIC, I. et SCHMIDT, M. \(2023\). A survey on bilevel optimization under uncertainty. *European Journal of Operational Research*, 311\(2\), pp. 401-426.](#)

[MOUACI, A., GOURDIN, , LJUBIC, I. et PERROT, N. \(2023\). Two extended formulations for the virtual network function placement and routing problem. *Networks*, 82\(1\), pp. 32-51.](#)

[CERULLI, M., SERRA, D., SORGENTE, C., ARCHETTI, C. et LJUBIC, I. \(2023\). Mathematical programming formulations for the collapsed k-core problem. *European Journal of Operational Research*, 311\(1\), pp. 56-72.](#)

[RAMIREZ-PICO, C., LJUBIC, I. et MORENO, E. \(2023\). Benders Adaptive-Cuts Method for Two-Stage Stochastic Programs. *Transportation Science*, 57\(5\), pp. 1252-1275.](#)

[GAAR, E., LEE, J., LJUBIC, I., SINNL, M. et TANINMIS, K. \(2024\). On SOCP-based disjunctive cuts for solving a class of integer bilevel nonlinear programs. *Mathematical Programming*, 206, pp. 91-124.](#)

[BECK, Y., LJUBIC, I. et SCHMIDT, M. \(2023\). Exact methods for discrete \$\epsilon\$ -robust interdiction problems with an application to the bilevel knapsack problem. *Mathematical Programming Computation*, 15\(4\), pp. 733-782.](#)

[KUZBAKOV, Y. et LJUBIC, I. \(2024\). New formulations for two location problems with interconnected facilities. *European Journal of Operational Research*, 31\(1\), pp. 51-65.](#)

[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.](#)

[LJUBIC, I., POZO, M.A., PUERTO, J. et TORREJON, A. \(2024\). Benders decomposition for the discrete ordered median problem. *European Journal of Operational Research*, 317\(3\), pp. 858-874.](#)

[LEITNER, M., LJUBIC, I., RIEDLER, M. et RUTHMAIR, M. \(2019\). Exact Approaches for Network Design Problems with Relays. *INFORMS Journal on Computing*, 31\(1\), pp. 171-192.](#)

[GHADDAR, B., LJUBIC, I. et QIU, Y. \(2024\). Three network design problems for community energy storage. *Networks*, 84\(4\), pp. 420-445.](#)

[LI, Y., ARCHETTI, C. et LJUBIC, I. \(2024\). Reinforcement Learning Approaches for the Orienteering Problem with Stochastic and Dynamic Release Dates. *Transportation Science*, 58\(5\), pp. 1143-1165.](#)

[CERULLI, M., ARCHETTI, C., FERNÁNDEZ, E. et LJUBIC, I. \(2024\). A Bilevel Approach for Compensation and Routing Decisions in Last-Mile Delivery. *Transportation Science*, 58\(5\), pp. 1076-1100.](#)

[KAHR, M., LEITNER, M. et LJUBIC, I. \(2024\). The Impact of Passive Social Media Viewers in Influence Maximization. *INFORMS Journal on Computing*, 36\(6\), pp. 1359-1756, C2.](#)

[HAERING, T., LEGAULT, R., TORRES, F., LJUBIC, I. et BIERLAIRE, M. \(2024\). Exact algorithms for continuous pricing with advanced discrete choice demand models. *OR Spectrum*, In press.](#)

[CLAUTIAUX, F. et LJUBIC, I. \(2025\). Last fifty years of integer linear programming: A focus on recent practical advances. *European Journal of Operational Research*, 324\(3\), pp. 707-731.](#)

[LI, Y., ARCHETTI, C. et LJUBIC, I. \(2025\). Emerging optimization problems for distribution in same-day delivery. *Computers & Operations Research*, 182, pp. 107105.](#)

[CASELLI, G., IORI, M. et LJUBIC, I. \(2025\). Bilevel optimization with sustainability perspective: A survey on applications. *European Journal of Operational Research*, In press.](#)

[CALAMITA, A., LJUBIC, I. et PALAGI, L. \(2025\). Benders decomposition for congested partial set covering location with uncertain demand. *European Journal of Operational Research*, In press.](#)

[FERNÁNDEZ, E., LJUBIC, I. et ZEREGA, N. \(2025\). The multi-commodity flow problem with outsourcing decisions. *Transportation Research Part B: Methodological*, 201, pp. 103333.](#)

[BECK, Y., LJUBIC, I. et SCHMIDT, M. \(2026\). Heuristic Methods for \$\epsilon\$ -Robust Mixed-Integer Linear Bilevel Problems. *INFORMS Journal on Computing*, 38\(1\), pp. 189-206.](#)

INVITÉ DANS UNE CONFÉRENCE ACADÉMIQUE (KEYNOTE SPEAKER)

[LJUBIC, I. \(2018\). Very Large Scale Covering Location Problems in the Design of Advanced Metering Infrastructure. Dans: Workshop on Smart Cities Analytics.](#)

- [LJUBIC, I. \(2016\). \[Keynote\] A new general-purpose algorithm for mixed-integer bilevel linear programs. Dans: 15ème Séminaire du Groupe POC "Combinatorial Bi-level optimization".](#)
- [LJUBIC, I. \(2018\). \[Plenary Speaker\] New Branch-and-Cut Algorithms for Mixed-Integer Bilevel Linear Programs. Dans: 2nd International Workshop on Bilevel Programming \(IWOBIP'18\).](#)
- [LJUBIC, I. \(2018\). \[Plenary Speaker\] From Game Theory to Graph Theory: A Bilevel Journey. Dans: International Conference on Operations Research \(OR 2018\).](#)
- [BECK, Y., LJUBIC, I. et SCHMIDT, M. \(2022\). \[Plenary Speaker\] Bilevel Optimization Under Uncertainty. Dans: PGMODays 2022. Palaiseau.](#)
- [LJUBIC, I. \(2019\). From Game Theory to Graph Theory: A Bilevel Journey \(EURO 2019 Tutorial\). Dans: 30th European Conference on Operational Research. Dublin.](#)
- [LJUBIC, I. \(2018\). Recent Developments on Exact Solvers for the \(Prize-Collecting\) Steiner Tree Problem \(Invited Tutorial\). Dans: Winter School on Network Optimization NetOpt2018.](#)
- [LJUBIC, I. \(2015\). Redesigning Benders Decomposition for Large Scale Facility Location. Dans: GOM Seminar, Université Libre de Bruxelles. Bruxelles.](#)
- [LJUBIC, I. \(2015\). On optimal design of charging stations for electric vehicles. Dans: PGMO Seminar, École Polytechnique. Paris.](#)
- [LJUBIC, I. \(2015\). MIP Approaches to the Lazy Bureaucrat and Greedy Boss Problems. Dans: Séminaire Pôle 2 Optimisation Combinatoire, University Paris Dauphine. Paris.](#)
- [LJUBIC, I. \(2015\). A New Modeling Concept for Facility Location Under Uncertainty. Dans: Seminar of the Operations Group, Universidad Adolfo Ibanez. Santiago.](#)
- [LJUBIC, I. \(2012\). The Maximum Weight Connected Subgraph Problem. Dans: COGA Seminar, TU Berlin. Berlin.](#)
- [LJUBIC, I. \(2021\). New Integer and Bilevel Formulations for the k-Vertex Cut Problem, Dans: 5th AIRO Young Workshop. Napoli \(online\).](#)
- [FURINI, F., LJUBIC, I. et SAN SEGUNDO, P. \(2022\). Lower bounds for Ramsey numbers on circulant graphs. Dans: Women in Optimization 2022. Berlin.](#)
- [ARCHETTI, C. et LJUBIC, I. \(2022\). Comparison of Formulations for the Inventory Routing Problem. Dans: 3rd Workshop on Combinatorial Optimization. Online.](#)
- [LJUBIC, I. \(2024\). Benders Adaptive-Cuts for Two-Stage Stochastic Optimization. Dans: Benders Day, Eindhoven University of Technology. Eindhoven.](#)
- [LJUBIC, I. \(2024\). Benders decomposition for the discrete ordered median problem. Dans: 13? Journées Thématiques du Groupe de Travail "Optimisation dans les Réseaux". Paris.](#)

[LJUBIC, I. \(2024\). Interdiction and Blocking Problems. Dans: Winter School on Network Optimization, organized by University of Lisbon. Estoril.](#)

[LJUBIC, I., FURINI, F., MALAGUTI, E. et PARONUZZI, P. \(2020\). Casting Light on the Hidden Bilevel Combinatorial Structure of the Capacitated Vertex Separator Problem. Dans: Mixed Integer Programming Workshop 2020 Online Edition.](#)

[LJUBIC, I. \(2019\). Solving Very Large Scale Covering Location Problems using Branch-and-Benders-Cuts. Dans: IX International Workshop on Locational Analysis and Related Problems 2019. Cadiz.](#)

[LJUBIC, I. \(2021\). \[Plenary Speaker\] Mixed Integer Bilevel Optimization. Dans: SIAM Conference on Optimization \(OP21\). Virtual.](#)

[ALFANDARI, L., LJUBIC, I. et DE MELO DA SILVA, M. \(2022\). A Tailored Benders Decomposition Approach for Last-mile Delivery with Autonomous Robots. Dans: International Conference on Operations Research and Enterprise Systems \(ICORES\). Online.](#)

[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.](#)

[LJUBIC, I. \(2024\). \[Plenary\] Benders Adaptive-Cuts for Network Design and Facility Location Problems Under Uncertainty. Dans: International Network Optimization Conference \(INOC\) 2024, University College Dublin.](#)

[LJUBIC, I. \(2024\). Introduction to computational bilevel optimization with an application to a pricing problem for last-mile delivery. Dans: Gerhard Woeginger Research Colloquium, RWTH Aachen University, Germany. Aachen.](#)

[LJUBIC, I. \(2024\). Introduction to computational bilevel optimization with an application to a pricing problem for last-mile delivery. Dans: Workshop on Ordered Structures in Games and Decision \(OSGaD\), Centre d'Economie de la Sorbonne. Paris.](#)

COMMUNICATIONS DANS UNE CONFÉRENCE

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ACTIVITÉS DE RECHERCHE

Organisation d'une conférence ou d'un séminaire

- 2015 - 2015: "Operations Research 2015" conference (Université de Vienne Autriche)
- 2014 - 2014: Atelier de travail "Recent Advances in Multi-Objective Optimization" (Université de Vienne Autriche)
- 2014 - 2014: Atelier de travail "Routing and Networks" (Université de Vienne Autriche)
- 2019 - 2019: Autumn school on advanced BCP tools: VRPSolver and Coluna (France)
- 2019 - 2019: Optimization and Data Science (France)
- 2019 - 2019: EURO 2019 Conference, Stream "Network Analytics and Optimization" (Irlande)
- 2018 - 2018: Optimization, Games and Data Analysis" Workshop (OGDA2018) (Autriche)
- 2018 - 2018: "Machine Learning, Networks and Combinatorial Optimization" Workshop (France)
- 2018 - 2018: "Cologne-Twente Workshop 2018" (CTW2018) (Conservatoire National des Arts & Métiers (CNAM) France)
- 2014 - 2014: INFORMS Telecommunication Conference 2014 (Portugal)
- 2014 - 2014: IFORS 2014 (Espagne)
- 2013 - 2013: Workshop "Optimization Tools for Next Generation Telecommunication Networks" (Austrian Academy of Sciences Autriche)
- 2019 - Présent: Member of Editorial Advisory Board - SN Operations Research Forum (SN Operations Research Forum)

Participation au comité scientifique d'une conférence ou reviewer pour une conférence

- 2016 - 2016: Membre du comité de programme : European Conference on Operational Research, EURO 2016, Poznan (Pologne)
- 2015 - 2015: Membre du comité de programme : International Network Optimization Conference, INOC 2015, Varsovie (Pologne)
- 2014 - 2014: Membre du comité de programme : International Symposium on Combinatorial Optimization, ISCO 2014, Lisbonne (Portugal)
- 2014 - 2014: Comité de Programme : INFORMS Telecommunication Conference 2014, Lisbonne (Portugal)

2018 - 2018: Relecteur pour Integer Programming and Combinatorial Optimization (IPCO 2018)

2014 - 2014: Relecteur pour Integer Programming and Combinatorial Optimization (IPCO 2014)

2013 - 2013: Relecteur pour International Symposium on Experimental Algorithms (SEA 2013)

2012 - 2012: Relecteur pour International Colloquium on Automata, Languages and Programming (ICALP 2011)

2011 - 2011: Relecteur pour European Symposia on Algorithms (ESA 2011)

2009 - 2009: Relecteur pour International Network Optimization Conference (INOC 2009)

2002 - 2002: Relecteur pour Graph Drawing (GD 2002)

2002 - 2002: Relecteur pour European Symposia on Algorithms (ESA 2002)

2001 - 2001: Relecteur pour European Symposia on Algorithms (ESA 2001)

2019 - 2019: Relecteur pour DFG (Deutsche Forschungsgemeinschaft) (Allemagne)

2017 - 2017: Relecteur pour FONDECYT (Fondo Nacional de Desarrollo Científico y Tecnológico) (Chili)

2015 - 2015: Relecteur pour FONDECYT (Fondo Nacional de Desarrollo Científico y Tecnológico) (Chili)

2012 - 2012: Relecteur pour FONDECYT (Fondo Nacional de Desarrollo Científico y Tecnológico) (Chili)

2017 - 2017: International Network Optimization Conference, INOC 2017

2018 - 2018: International Symposium on Combinatorial Optimization, ISCO 2018

2018 - 2018: International Symposium on Mathematical Programming, ISMP 2018

2018 - 2018: INFORMS Telecommunication Conference 2018

2019 - 2019: Program Committee member - International Network Optimization Conference, INOC 2019

2020 - 2020: Program Committee member: International Symposium on Combinatorial Optimization, ISCO 2020

2020 - 2020: Program Committee member: INFORMS Telecommunication & Network Analytics Conference 2020

2020 - 2020: Program Committee member: International Symposium on Combinatorial Optimisation 2020

2020 - 2020: Program Committee member: International Symposium on Combinatorial Optimisation 2020

2016 - 2016: Program Committee member: INFORMS Telecommunication Conference 2016

2015 - 2015: Program Committee member:

2015 - 2015: Program Committee member: 11th Metaheuristics International Conference

2013 - 2013: Program Committee Member: International Network Optimization Conference

2013 - 2013: Program Committee member : 10th Metaheuristics International Conference, MIC 2013

2012 - 2012: Program Committee member :

2011 - 2011: International Network Optimization Conference, INOC 2011

2010 - 2010: Program Committee member: Third international workshop on model-based metaheuristics, Matheuristics 2010

2008 - 2008: Program Committee member:

2005 - 2005: Program Committee member: The Genetic and Evolutionary Computation Conference, GECCO 2005

2001 - 2005: Program Committee member: European Conferences on Evolutionary

Computation in Combinatorial Optimisation EvoCOP

Fonction dans une association académique

- 2018 - Présent: Présidente de la division Telecommunication & Network Analytics d'INFORMS
2006 - 2008: Membre du conseil d'administration de l'Austrian Society of Operations Research OEGOR
2017 - 2018: Vice-president of the INFORMS Telecommunication Section
2010 - 2016: Member of council and secretary of the INFORMS Telecom Section

Co-direction d'une revue - Co-rédacteur en chef

- 2016 - 2021: Co-Rédacteur en chef - Omega
2019 - Présent: Editeur associée
2017 - 2021: Associate Editor - Journal of Global Optimization
2021 - Présent: Associate Editor - Transportation Science

Membre d'un comité de lecture

- 2016 - Présent: Membre du comité de lecture - Computers & Operations Research
2018 - 2025: Membre du comité de lecture - European Journal of Operational Research
2023 - Présent: Associate Editor - Operations Research
2020 - Présent: Comité de lecture - Networks: An International Journal
2021 - Présent: Comité de lecture - Transportation Science

Reviewer pour un journal

- Relecteur pour 4OR: A Quarterly Journal of Operations Research
- Annals of Operations Research
- Computational Management Science
- Computational Optimization and Applications
- Computers & Operations Research
- Discrete Applied Mathematics
- Discrete Optimization
- European Journal of Operational Research
- European Journal on Computational Optimization
- Evolutionary Computation
- IEEE Transactions on Evolutionary Computation
- IIE Transactions
- INFOR
- INFORMS Journal on Computing
- International Transactions in Operational Research
- Journal of Combinatorial Optimization
- Journal of Global Optimization
- Journal of Heuristics

- Management Science
- Mathematical Methods of Operations Research
- Mathematical Programming
- Networks
- Omega
- Operations Research
- Operations Research Letters
- Optimization Letters
- OR Spektrum
- Plos One
- SIAM Journal on Optimization
- Transportation Science

Membre d'une association académique

2003 - 2003: Member of the IEEE Computational Intelligence Society (CIS)

ACTIVITÉS PROFESSIONNELLES

Consulting

2007 - 2010: OptTelNets, projet réalisé avec Telecom Austria A1

Autre activité professionnelle

2017 - Présent: Orange Labs, France: Optimal Instantiation of Service Chains in Software Defined Networks. CIFRE contract (PhD supervision of Ahlam Mouaci)

2006 - 2010: Telekom Austria AG: Optimal Design of FTTx Telecommunication Networks: (supervision of 2 PhD students)