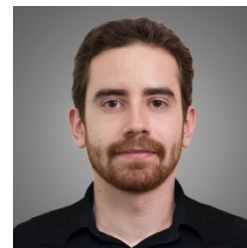


Renan SPENCER TRINDADE

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EXPERIENCE

2019-NOW	ÉCOLE POLYTECHNIQUE Post-Doctoral Researcher Laboratoire d'Informatique de l'École Polytechnique (LIX) Centre National de la Recherche Scientifique (CNRS) <i>I am currently working on the "Integrated Urban Mobility" project, held by Uber & École Polytechnique.</i>	PALaiseau France
2018	ÉCOLE POLYTECHNIQUE Student of International Exchange Program Laboratoire d'Informatique de l'École Polytechnique (LIX) Centre National de la Recherche Scientifique (CNRS) <i>I developed an automatic mathematical reformulator for piecewise linearization in mixed-integer non-linear problems (MINLP) in the real-world context such as Hydro Unit Commitment, in collaboration with the ROSE project. https://projects.coin-or.org/ROSE</i>	PALaiseau France
2010-2012	UNIVERSIDADE FEDERAL DE SANTA MARIA (UFSM) Researcher and System Developer Support of Science and Technology Foundation – FATEC <i>I developed an optimization software for dimensioning and coordinating protection equipment for the energy distribution system network. I worked with heuristics, graphical interface, the database with equipment information, the treatment of the necessary data exported from the company's SCADA system, as well as presentations and meetings with the client.</i>	SANTA MARIA Brazil

EDUCATION

2014-2019	UNIVERSIDADE FEDERAL DO RIO DE JANEIRO (UFRJ) Ph.D., System Engineering and Computer Science Optimization	RIO DE JANEIRO Brazil
2012-2014	UNIVERSIDADE FEDERAL DE SANTA MARIA (UFSM) Master's degree, Computer Science Optimization	SANTA MARIA Brazil
2008-2011	UNIVERSIDADE FRANCISCANA (UFN) Bachelor's degree, Computer Science Optimization and Artificial Intelligence	SANTA MARIA Brazil

HONORS & AWARDS

2014	ROBERTO DIÉGUEZ GALVÃO AWARD Brazilian Society of Operations Research (SOBRAPO), for the best paper presented at the Brazilian Symposium of Operational Research
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SKILLS

PROGRAMMING

AND C++, C, Java, Python, Matlab, Ampl, Cplex

OPTIMIZATION

RESEARCH TOPICS Combinatorial Optimization, Mathematical Modeling,
Mixed Integer Linear Programming, Non-convex Linearization,
Optimization in Industry, Scheduling Problems.

LANGUAGES Portuguese (native speaker), English (advanced), Spanish, (intermediate),
French (elementary).

PUBLICATIONS

COMPLETE ARTICLES PUBLISHED IN JOURNALS

Trindade, R. S., de Araújo, O. C. B., Fampa, M. H. C., & Müller, F. M. (2018). Modelling and symmetry breaking in scheduling problems on batch processing machines. *International Journal of Production Research*, 56(22), 7031–7048.
<https://doi.org/10.1080/00207543.2018.1424371>

BOOK CHAPTERS

Trindade, R. S., de Araújo, O. C. B., Fampa, M. H. C. (2020) Arc-Flow Approach for Parallel Batch Processing Machine Scheduling with Non-identical Job Sizes. Lecture Notes in Computer Science. 1ed. Cham, Switzerland: Springer International Publishing, v. 12176, p. 179-190.
http://doi.org/10.1007/978-3-030-53262-8_15

PAPERS PUBLISHED IN THE PROCEEDINGS

Trindade, R. S., de Araújo, O. C. B., & Fampa, M. H. C. (2018). An arc-flow formulation for minimizing makespan on a single batch processing machine with non-identical job sizes. In: L Simpósio Brasileiro de Pesquisa Operacional, Rio de Janeiro, Brazil. 12p.

Trindade, R. S., de Araújo, O. C. B., Fampa, M. H. C., & Müller, F. M. (2016). Modeling symmetry cuts for batch scheduling with release times and non-identical job sizes. In: XVIII CLAIO, Latin-Iberoamerican Conference on Operations Research, Santiago, Chile. 7p.

Trindade, R. S., de Araújo, O. C. B., Fampa, M. H. C., & Müller, F. M. (2014). A new mixed integer linear programming model for minimizing makespan on a single batch processing machine with release times and non-identical job sizes. In: XLVI Simpósio Brasileiro de Pesquisa Operacional, Salvador, Brazil. 9p.

Trindade, R. S., de Araújo, O. C. B., Müller, F. M., Fampa, M. H. C. (2013). Método de geração de colunas para o problema de dimensionamento e programação de lotes em máquina única. In: XLV Simpósio Brasileiro de Pesquisa Operacional, 2013, Natal, Brazil. 10p.

EXTENDED ABSTRACTS PUBLISHED IN THE PROCEEDINGS

Trindade, R. S., de Araújo, O. C. B., Fampa, M. H. C., & Müller, F. M. (2016). MILP Model for Batch Scheduling on Parallel Machines. In: XIII Global Optimization Workshop, Braga, Portugal. 4p.

Trindade, R. S., de Araújo, O. C. B., Fampa, M. H. C., & Müller, F. M. (2014). Solving single batch processing machine problem using symmetry-breaking constraints. In: VIII ALIO/EURO Workshop on Applied Combinatorial Optimization, Montevideo, Uruguay. 6p.

ABSTRACTS PUBLISHED IN THE PROCEEDINGS

Trindade, R. S., de Araújo, O. C. B., Fampa, M. H. C. (2018). An arc-flow formulation for minimizing makespan on a batch processing machine. In: 23rd International Symposium on Mathematical Programming (ISMP), Bordeaux, France.

PREPRINT PAPERS

Trindade, R. S., de Araújo, O. C. B., Fampa, M. H. C. (2020). Arc-flow approach for single batch-processing machine scheduling.
<http://arxiv.org/abs/2010.12052>