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Employment

Assistant Professor

DM - Departamento de Matemática
Universidade NOVA de Lisboa
Portugal
3 Oct 2005 → present

Integrated member (PhD)

Researcher
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Universidade NOVA de Lisboa
Portugal
11 Oct 1997 → present

Research outputs

Are the Portuguese Fire Departments Well Located for Fighting Urban Fires?

Gomes, M. I., Jóia, A. C., Pinela, J. & Chibeles-Martins, N., 2024, *Operational Research: IO 2022—OR in Turbulent Times: Adaptation and Resilience. XXII Congress of APDIO, University of Évora, Portugal, November 6–8, 2022*. Almeida, J. P., Alvelos, F. P. E., Cerdeira, J. O., Moniz, S. & Requejo, C. (eds.). Cham: Springer, p. 99-111 13 p. (Springer Proceedings in Mathematics and Statistics; vol. 437).

Teaching courses to STEM students: Lessons learned from the Pandemics

Chibeles-Martins, N. & Afonso, L. B., Jan 2023, *33rd European Symposium on Computer Aided Process Engineering*. Kokossis, A. C., Georgiadis, M. C. & Pistikopoulos, E. (eds.). Amsterdam: Elsevier B.V., p. 3507-3512 6 p. (Computer Aided Chemical Engineering; vol. 52).

Mathematical Models for Decision Making with Multiple Perspectives

Gomes, M. I. & Chibeles-Martins, N., 4 Aug 2022, Florida: Taylor & Francis. 300 p.

Teaching courses heavily dependent on computational resources to STEM students during Pandemics

Chibeles-Martins, N. & Afonso, L. B., 2022, *32nd European Symposium on Computer Aided Process Engineering*. Montastruc, L. & Negny, S. (eds.). Amsterdam: Elsevier B.V., p. 1687-1692 6 p. (Computer Aided Chemical Engineering; vol. 51).

Comparison of two Meta-Heuristics for the Bi-Objective Flexible Job Shop Scheduling Problem with Sequence Dependent Setup Times

Sacramento, J., Pedrosa, J., Chibeles-Martins, N. & Pinto-Varela, T., Jan 2020, *30th European Symposium on Computer Aided Process Engineering, Proceedings*. Pierucci, S., Manenti, F., Bozzano, G. L. & Manca, D. (eds.). Elsevier B.V., p. 181-186 6 p. (Computer Aided Chemical Engineering; vol. 48).

A combined optimisation and decision-making approach for battery-supported HMGS

Marcelino, C., Baumann, M., Carvalho, L., Chibeles-Martins, N., Weil, M., Almeida, P. & Wanner, E., 2020, In: *Journal of the Operational Research Society*. 71, 5

Random variables as arc parameters when solving shortest path problems

Rasteiro, D. & Chibeles-Martins, N., 2020, *Calculus for Engineering Students: Fundamentals, Real Problems, and Computers*. Martín-Vaquero, J., Carr, M., Queiruga-Dios, A. & Richtáriková, D. (eds.). Academic Press, p. 197-219 (Mathematics in Science and Engineering).

A review of multi-criteria decision making approaches for evaluating energy storage systems for grid applications

Baumann, M., Weil, M., Peters, J. F., Chibeles-Martins, N. & Moniz, A. B., 1 Jun 2019, In: *Renewable and Sustainable Energy Reviews*. p. 516-534 19 p.

Multi-start local search procedure for the maximum fire risk insured capital problem

Gomes, M. I., Afonso, L. B., Chibeles-Martins, N. & Fradinho, J. M., 1 Jan 2018, *Combinatorial Optimization - 5th International Symposium, ISCO 2018, Revised Selected Papers*. Springer Verlag, p. 219-227 9 p. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics); vol. 10856 LNCS).

A Bi-objective two step Simulated Annealing Algorithm for Production Scheduling

Chibeles-Martins, N., Marques, A. & Pinto-Varela, T., 1 Oct 2017, *Computer Aided Chemical Engineering*. Elsevier B.V., Vol. 40. p. 1351-1356 6 p. (Computer Aided Chemical Engineering; vol. 40).

A multi-objective meta-heuristic approach for the design and planning of green supply chains - MBSA

Chibeles-Martins, N., Pinto-Varela, T., Barbosa-Póvoa, A. P. & Novais, A. Q., 1 Apr 2016, In: *Expert Systems with Applications*. 47, p. 71-84 14 p.

Mathematics in the Making: A view over the Portuguese activities

Soares, M. D. C. C., Rodrigues, F., Chibeles Martins, N., Baptista, S. M. M. H. B., Guerreiro, G. R. D. & Ughi, E., 2016, *PROCEEDINGS OF THE RECREATIONAL MATHEMATICS COLLOQUIUM IV, ISBN 978-989-99506-0-3 Associação LUDUS*. p. 123-132

Soft skills for science and technology students: A pedagogical experience

Costa, R. A., Fonseca, J. M., Kullberg, J. C., Martins, N. C. & Santana, F., 4 Nov 2015, *Proceedings of 2015 International Conference on Interactive Collaborative Learning, ICL 2015*. Institute of Electrical and Electronics Engineers (IEEE), p. 1198-1202 5 p. 7318206

Simulated Annealing for Production Scheduling: A Case Study

Marques, A., Chibeles Martins, N. & Pinto-Varela, T., 8 Oct 2015, *Operations Research and Big Data: IO2015-XVII Congress of Portuguese Association of Operational Research (APDIO)*. Barbosa Póvoa, A. P. & Miranda, J. (eds.). Springer International Publishing, Vol. 15. p. 107-114 8 p. (Studies in Big Data; vol. 15).

ClubeMath: do 1º ciclo à universidade

Soares, M. D. C. C., Guerreiro, G. R. D., Rodrigues, F., Baptista, S. M. M. H. B. & Chibeles Martins, N., 2015, *Proceedings da Conferência Internacional do Espaço Matemático em Língua Portuguesa*.

MiMa - Mathematics in the Making - The Project

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MiMa - Mathematics in the Making - The Toolkit

Soares, M. D. C. C., Guerreiro, G. R. D., Baptista, S. M. M. H. B., Chibeles Martins, N., Rodrigues, F., Adams, G., Beutelspacher, A., Elett, M., Holló-Szabó, F., Jackson, C., Kahlen, C., Munkácsy, K., Povey, H., Ughi, E., Vászárhelyi, É., Weber, R. & Wintsche, G., 2015, *MiMa - Mathematics in the Making - The Toolkit*. FCT-UNL, 64 p.

Projeto europeu MiMa – Mathematics in the Making

Soares, M. D. C. C., Guerreiro, G. R. D., Rodrigues, F., Chibeles Martins, N., Baptista, S. M. M. H. B., Neves, C. & Capela, A., 2015, *Proceedings da Conferência Internacional do Espaço Matemático em Língua Portuguesa*.

Multi-objective meta-heuristic approach supported by an improved local search strategy for the design and planning of supply chain networks

Chibeles Martins, N., 1 Jan 2014, *Computer-Aided Chemical Engineering*. p. 313–318

A Simulated Annealing Algorithm for the Design and Planning of Supply Chains with Economic and Environmental Objectives

Chibeles Martins, N., 1 Jan 2012, *Computer Aided Chemical Engineering*. p. 21-25

MathGames

Rodrigues, M. D. F. V. D. G. S., Soares, M. D. C. C. & Chibeles Martins, N., 1 Jan 2012, *NA*. p. 169-174

A Simulated Annealing Approach for the BiObjective Design and Scheduling of Multipurpose Batch Plants

Chibeles-Martins, N., Pinto-Varela, T., Barbósa-Póvoa, A. P. & Novais, A. Q., 20 Jun 2011, In: *Computer Aided Chemical Engineering*. 29, p. 865-869 5 p.

A Simulated Annealing Approach for the Bi- Objective Design and Scheduling of Multipurpose Batch Plants

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Adoras Matemática? Ótimo! Detestas Matemática? Perfeito!

Soares, M. D. C. C., Rodrigues, M. D. F. V. D. G. S. & Chibeles Martins, N., 1 Jan 2010, *Boletim da Sociedade Portuguesa de Matemática*. p. 124-129

A Meta-Heuristics Approach for the Design and Scheduling of Multipurpose Batch Plants

Chibeles Martins, N., 1 Jan 2010, *Computer-Aided Chemical Engineering*. Pierucci, S. & Ferraris, B. (eds.). SARA BURGERHARTSTRAAT 25, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS: ELSEVIER SCIENCE BV, Vol. 28. p. 1315-1320

Awards

MiMa: Mathematics in the Making

Baptista, S. M. M. H. B., Martins, N. C., Guerreiro, G. R. D., Rodrigues, M. D. F. V. D. G. S. & Soares, M. D. C. C. Fundação para a Ciência e a Tecnologia
30/11/13 → 29/11/15