

Nelson Chibeles Martins
Researcher, Assistant Professor
DM - Departamento de Matemática
CMA - Centro de Matemática e Aplicações
Email: npm@fct.unl.pt
Phone: 212948388



Employment

Assistant Professor

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

Integrated member (PhD)

Researcher
CMA - Centro de Matemática e Aplicações
Universidade NOVA de Lisboa
Portugal
11 Oct 1997 → present

Research outputs

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).

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.

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., Apr 2019, In: *Journal of the Operational Research Society*.

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 Inc., 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

Soares, M. D. C. C., Guerreiro, G. R. D., Chibeles Martins, N., Rodrigues, F., Baptista, S. M. M. H. B., Adams, G., Jackson, C., Povey, H., Beutelspacher, A., Kahlen, C., Ughi, E., Weber, R., Holló-Szabó, F., Munkácsy, K., Vásárhelyi, É. & Wintsche, G., 2015, Sheffield, England: Sheffield Hallam University. 40 p.

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., Vásárhelyi, 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

Chibeles Martins, N., 1 Jan 2011, *COMPUTER-AIDED CHEMICAL ENGINEERING*. p. 865-869

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