

# Eduardo Camponogara

## List of Publications by Year in descending order

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Version: 2024-02-01

122  
papers

1,816  
citations

361413  
20  
h-index

330143  
37  
g-index

125  
all docs

125  
docs citations

125  
times ranked

1445  
citing authors

| #  | ARTICLE                                                                                                                                                                                      | IF   | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Short-term steady-state production optimization of offshore oil platforms: wells with dual completion (gas-lift and ESP) and flow assurance. <i>Top</i> , 2022, 30, 152-180.                 | 1.6  | 3         |
| 2  | A relax-and-fix and fix-and-optimize algorithm for a Maritime Inventory Routing Problem. <i>Computers and Operations Research</i> , 2022, 137, 105520.                                       | 4.0  | 19        |
| 3  | Generalized Auto-Sequencing Bus Headway Control Formulation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 6460-6472.                                           | 8.0  | 2         |
| 4  | Echo State Networks for Practical Nonlinear Model Predictive Control of Unknown Dynamic Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 2615-2629.     | 11.3 | 11        |
| 5  | A derivative-free exact penalty algorithm: basic ideas, convergence theory and computational studies. <i>Computational and Applied Mathematics</i> , 2022, 41, 1.                            | 2.2  | 2         |
| 6  | Derivative-free trust region optimization for robust well control under geological uncertainty. <i>Computational Geosciences</i> , 2022, 26, 329-349.                                        | 2.4  | 5         |
| 7  | A branch-and-price algorithm for nanosatellite task scheduling to improve mission quality-of-service. <i>European Journal of Operational Research</i> , 2022, 303, 168-183.                  | 5.7  | 12        |
| 8  | Nonlinear Model Predictive Control of Electrical Submersible Pumps based on Echo State Networks. <i>Advanced Engineering Informatics</i> , 2022, 52, 101553.                                 | 8.0  | 8         |
| 9  | An Energy-Aware Task Scheduling for Quality-of-Service Assurance in Constellations of Nanosatellites. <i>Sensors</i> , 2022, 22, 3715.                                                       | 3.8  | 6         |
| 10 | An Augmented Lagrangian for Optimal Control of DAE Systems: Algorithm and Properties. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 261-266.                                     | 5.7  | 1         |
| 11 | Hierarchical decompositions for MPC of resource constrained control systems: applications to building energy management. <i>Optimization and Engineering</i> , 2021, 22, 187-215.            | 2.4  | 9         |
| 12 | Task scheduling for optimal power management and quality-of-service assurance in CubeSats. <i>Acta Astronautica</i> , 2021, 179, 550-560.                                                    | 3.2  | 19        |
| 13 | Tuning of oil well models with production data reconciliation. <i>Computers and Chemical Engineering</i> , 2021, 145, 107179.                                                                | 3.8  | 8         |
| 14 | A MILP-based clustering strategy for integrating the operational management of crude oil supply. <i>Computers and Chemical Engineering</i> , 2021, 145, 107161.                              | 3.8  | 9         |
| 15 | A nanosatellite task scheduling framework to improve mission value using fuzzy constraints. <i>Expert Systems With Applications</i> , 2021, 175, 114784.                                     | 7.6  | 13        |
| 16 | Control Optimization of Pump Cycles in Onshore Oilfields With Network and Electric Power Constraints. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, . | 2.3  | 2         |
| 17 | Output feedback design for discrete-time constrained systems subject to persistent disturbances via bilinear programming. <i>Journal of the Franklin Institute</i> , 2021, 358, 9741-9770.   | 3.4  | 6         |
| 18 | Headway Control in Bus Transit Corridors Served by Multiple Lines. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 4680-4692.                                     | 8.0  | 15        |

| #  | ARTICLE                                                                                                                                                                          | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Integrated headway and bus priority control in transit corridors with bidirectional lane segments. Transportation Research Part C: Emerging Technologies, 2020, 111, 114-134.    | 7.6 | 18        |
| 20 | Decompositions for MPC of Linear Dynamic Systems with Activation Constraints. Energies, 2020, 13, 5744.                                                                          | 3.1 | 2         |
| 21 | A framework to estimate dwell time of BRT systems using fuzzy regression. Journal of Intelligent and Fuzzy Systems, 2020, 38, 5279-5293.                                         | 1.4 | 4         |
| 22 | Introducing approximate well dynamics into production optimization for operations scheduling. Computers and Chemical Engineering, 2020, 136, 106773.                             | 3.8 | 3         |
| 23 | Derivative-free parameter tuning for a well multiphase flow simulator. Journal of Petroleum Science and Engineering, 2020, 192, 107288.                                          | 4.2 | 15        |
| 24 | A general optimal operating strategy for commercial membrane distillation facilities. Renewable Energy, 2020, 156, 220-234.                                                      | 8.9 | 10        |
| 25 | A Computational Analysis of Decomposition Strategies for Model Predictive Control of Resource-Constrained Dynamic Systems. IEEE Latin America Transactions, 2020, 18, 1933-1942. | 1.6 | 0         |
| 26 | Online learning control with Echo State Networks of an oil production platform. Engineering Applications of Artificial Intelligence, 2019, 85, 214-228.                          | 8.1 | 17        |
| 27 | Mixed-integer bilinear and piecewise-linear models for designing switching strategies of multilevel power converters. Computers and Electrical Engineering, 2019, 77, 88-108.    | 4.8 | 2         |
| 28 | Network-Constrained Production Optimization by Means of Multiple Shooting. SPE Reservoir Evaluation and Engineering, 2019, 22, 709-733.                                          | 1.8 | 6         |
| 29 | Automatic control of flow gathering networks: A mixed-integer receding horizon control applied to an onshore oilfield. Control Engineering Practice, 2019, 86, 48-55.            | 5.5 | 4         |
| 30 | Relaxed hybrid consensus ADMM for distributed convex optimisation with coupling constraints. IET Control Theory and Applications, 2019, 13, 2828-2837.                           | 2.1 | 9         |
| 31 | Real-Time Integrated Holding and Priority Control Strategy for Transit Systems. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3459-3469.                    | 8.0 | 26        |
| 32 | An MINLP formulation for integrating the operational management of crude oil supply. Computers and Chemical Engineering, 2019, 123, 110-125.                                     | 3.8 | 12        |
| 33 | A Branch-and-Price algorithm for a compressor scheduling problem. Computers and Industrial Engineering, 2018, 116, 72-81.                                                        | 6.3 | 3         |
| 34 | Scheduling pumpoff operations in onshore oilfields with electric-power constraints and variable cycle time. Computers and Operations Research, 2018, 91, 247-257.                | 4.0 | 2         |
| 35 | Design optimization of oilfield subsea infrastructures with manifold placement and pipeline layout. Computers and Chemical Engineering, 2018, 108, 163-178.                      | 3.8 | 42        |
| 36 | Explicit Computation of Stabilizing Feedback Control Gains Using Polyhedral Lyapunov Functions. , 2018, , .                                                                      |     | 5         |

| #  | ARTICLE                                                                                                                                                                                                | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Nonlinear Model Predictive Control of an Oil Well with Echo State Networks. IFAC-PapersOnLine, 2018, 51, 13-18.                                                                                        | 0.9 | 16        |
| 38 | Derivative-Free Optimization of Offshore Production Platforms Sharing a Subsea Gas Network – This work was funded in part by Petrobras and CNPq.. IFAC-PapersOnLine, 2018, 51, 185-190.                | 0.9 | 3         |
| 39 | Integrated Methodology for Production Optimization from Multiple Offshore Reservoirs in the Santos Basin. IEEE Transactions on Automation Science and Engineering, 2017, 14, 669-680.                  | 5.2 | 17        |
| 40 | A piecewise McCormick relaxation-based strategy for scheduling operations in a crude oil terminal. Computers and Chemical Engineering, 2017, 106, 309-321.                                             | 3.8 | 19        |
| 41 | Echo State Networks for data-driven downhole pressure estimation in gas-lift oil wells. Neural Networks, 2017, 85, 106-117.                                                                            | 5.9 | 60        |
| 42 | Robust formulations for production optimization of satellite oil wells. Engineering Optimization, 2017, 49, 846-863.                                                                                   | 2.6 | 9         |
| 43 | A distributed dual algorithm for distributed MPC with application to urban traffic control. , 2017, , .                                                                                                |     | 1         |
| 44 | Holding Control of Bus Bunching without Explicit Service Headways. IFAC-PapersOnLine, 2016, 49, 209-214.                                                                                               | 0.9 | 10        |
| 45 | A MILP model for planning the trips of dynamic positioned tankers with variable travel time. Transportation Research, Part E: Logistics and Transportation Review, 2016, 93, 372-388.                  | 7.4 | 20        |
| 46 | An augmented Lagrangian method for optimal control of continuous time DAE systems. , 2016, , .                                                                                                         |     | 5         |
| 47 | Optimising QoS in adaptive real-time systems with energy constraint varying CPU frequency. International Journal of Embedded Systems, 2016, 8, 368.                                                    | 0.3 | 2         |
| 48 | Distributed Satisficing MPC With Guarantee of Stability. IEEE Transactions on Automatic Control, 2016, 61, 532-537.                                                                                    | 5.7 | 6         |
| 49 | Black-oil minimal fluid state parametrization for constrained reservoir control optimization. Journal of Petroleum Science and Engineering, 2016, 143, 35-43.                                          | 4.2 | 0         |
| 50 | Optimising QoS in adaptive real-time systems with energy constraint varying CPU frequency. International Journal of Embedded Systems, 2016, 8, 368.                                                    | 0.3 | 0         |
| 51 | System Identification of a Vertical Riser Model with Echo State Networks – This work was partially funded by CNPq under grants 471978/2013-2 and 501507/2013-2.. IFAC-PapersOnLine, 2015, 48, 304-310. | 0.9 | 1         |
| 52 | Output-Constraint Handling and Parallelization for Oil-Reservoir Control Optimization by Means of Multiple Shooting. SPE Journal, 2015, 20, 856-871.                                                   | 3.1 | 18        |
| 53 | Distributed MPC for resource-constrained control systems. Optimal Control Applications and Methods, 2015, 36, 272-291.                                                                                 | 2.1 | 11        |
| 54 | Models and Algorithms for Optimal Piecewise-Linear Function Approximation. Mathematical Problems in Engineering, 2015, 2015, 1-9.                                                                      | 1.1 | 31        |

| #  | ARTICLE                                                                                                                                                                                           | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Scheduling pumpoff operations in onshore oilfields under electric-power constraints. European Journal of Operational Research, 2015, 247, 945-956.                                                | 5.7 | 3         |
| 56 | A piecewise linear-quadratic approximation for production optimization of gas-lifted oil fields. , 2015, , .                                                                                      |     | 0         |
| 57 | Systemwide Optimal Control of Offshore Oil Production Networks with Time Dependent Constraints. IFAC-PapersOnLine, 2015, 48, 200-207.                                                             | 0.9 | 5         |
| 58 | Distributed Satisficing MPC. IEEE Transactions on Control Systems Technology, 2015, 23, 305-312.                                                                                                  | 5.2 | 9         |
| 59 | Derivative-free methods applied to daily production optimization of gas-lifted oil fields. Computers and Chemical Engineering, 2015, 75, 60-64.                                                   | 3.8 | 23        |
| 60 | Modeling of flow splitting for production optimization in offshore gas-lifted oil fields: Simulation validation and applications. Journal of Petroleum Science and Engineering, 2015, 128, 86-97. | 4.2 | 19        |
| 61 | Special Issue on Intelligent Agents in Traffic and Transportation. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2015, 19, 1-2.                            | 4.2 | 6         |
| 62 | Reception, mixture, and transfer in a crude oil terminal. Computers and Chemical Engineering, 2015, 82, 293-302.                                                                                  | 3.8 | 6         |
| 63 | Derivative-free optimization with use of problem structure: Applications to oil production. , 2015, , .                                                                                           |     | 0         |
| 64 | Piecewise-linear approximations for a non-linear transmission expansion planning problem. IET Generation, Transmission and Distribution, 2015, 9, 1235-1244.                                      | 2.5 | 19        |
| 65 | Distributed MPC for urban traffic networks: A simulation-based performance analysis. Optimal Control Applications and Methods, 2015, 36, 353-368.                                                 | 2.1 | 16        |
| 66 | A Mixed-Integer convex formulation for production optimization of gas-lifted oil fields with routing and pressure constraints. Brazilian Journal of Chemical Engineering, 2014, 31, 439-455.      | 1.3 | 7         |
| 67 | A Model Considering QoS for Real-Time Systems with Energy and Temperature Constraints. , 2014, , .                                                                                                |     | 1         |
| 68 | Scheduling dynamically positioned tankers for offshore oil offloading. International Journal of Production Research, 2014, 52, 7251-7261.                                                         | 7.5 | 7         |
| 69 | Efficient building energy management using distributed model predictive control. Journal of Process Control, 2014, 24, 740-749.                                                                   | 3.3 | 75        |
| 70 | A computational analysis of multidimensional piecewise-linear models with applications to oil production optimization. European Journal of Operational Research, 2014, 232, 630-642.              | 5.7 | 55        |
| 71 | A mixed-integer linear programming model for automatic routing decisions in oil production optimization. , 2013, , .                                                                              |     | 2         |
| 72 | Optimizing QoS in Adaptive Real-Time Systems with Energy Constraint Varying CPU Frequency. , 2013, , .                                                                                            |     | 3         |

| #  | ARTICLE                                                                                                                                                                                                                                   | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Optimizing building comfort temperature regulation via model predictive control. Energy and Buildings, 2013, 57, 361-372.                                                                                                                 | 6.7 | 101       |
| 74 | Optimizing QoS in energy-aware real-time systems. ACM SIGBED Review, 2013, 10, 25-25.                                                                                                                                                     | 1.8 | 3         |
| 75 | A computational analysis of nondifferentiable optimization: Applications to production maximization in gas-lifted oil fields. , 2013, , .                                                                                                 |     | 0         |
| 76 | A Computational Analysis of Convex Combination Models for Multidimensional Piecewise-Linear Approximation in Oil Production Optimization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 292-298. | 0.4 | 5         |
| 77 | Optimizing quality of service in real-time systems under energy constraints. Operating Systems Review (ACM), 2012, 46, 82-92.                                                                                                             | 1.9 | 4         |
| 78 | Distributed Optimization for MPC of Linear Networks With Uncertain Dynamics. IEEE Transactions on Automatic Control, 2012, 57, 804-809.                                                                                                   | 5.7 | 16        |
| 79 | A revised model for compressor design and scheduling in gas-lifted oil fields. IIE Transactions, 2012, 44, 342-351.                                                                                                                       | 2.1 | 14        |
| 80 | Integrated production optimization of oil fields with pressure and routing constraints: The Urucu field. Computers and Chemical Engineering, 2012, 46, 178-189.                                                                           | 3.8 | 44        |
| 81 | Mixed-integer linear optimization for optimal lift-gas allocation with well-separator routing. European Journal of Operational Research, 2012, 217, 222-231.                                                                              | 5.7 | 32        |
| 82 | Distributed Optimization for Model Predictive Control of Linear Dynamic Networks With Control-Input and Output Constraints. IEEE Transactions on Automation Science and Engineering, 2011, 8, 233-242.                                    | 5.2 | 78        |
| 83 | A Model for Reconfiguration of Multi-Modal Real-Time Systems under Energy Constraints. , 2011, , .                                                                                                                                        |     | 1         |
| 84 | A framework for adaptive tuning of distributed model predictive controllers by Lagrange multipliers. , 2011, , .                                                                                                                          |     | 1         |
| 85 | Transfer function modeling of linear dynamic networks for distributed MPC. , 2011, , .                                                                                                                                                    |     | 3         |
| 86 | Iterative Quadratic Optimization for the Bus Holding Control Problem. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 1568-1575.                                                                                       | 8.0 | 28        |
| 87 | Compressor scheduling in oil fields. Optimization and Engineering, 2011, 12, 153-174.                                                                                                                                                     | 2.4 | 11        |
| 88 | Integrated Coal-Mining Operations Planning: Modeling and Case Study. International Journal of Coal Preparation and Utilization, 2011, 31, 299-334.                                                                                        | 2.1 | 7         |
| 89 | About Agents and Predictive Controlles. , 2011, , .                                                                                                                                                                                       |     | 0         |
| 90 | Self-Configuration and Self-Optimization Process in Heterogeneous Wireless Networks. Sensors, 2011, 11, 425-454.                                                                                                                          | 3.8 | 5         |

| #   | ARTICLE                                                                                                                                                                                                             | IF   | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 91  | Modelo e controle da operação de um sistema BRT com segmento de faixa exclusiva única bidirecional. Transportes, 2011, 19, 12.                                                                                      | 0.2  | 1         |
| 92  | An automation system for gas-lifted oil wells: Model identification, control, and optimization. Journal of Petroleum Science and Engineering, 2010, 70, 157-167.                                                    | 4.2  | 30        |
| 93  | Cost Effective Real-Time Traffic Signal Control Using the TUC Strategy. IEEE Intelligent Transportation Systems Magazine, 2010, 2, 6-17.                                                                            | 3.8  | 27        |
| 94  | Multi-agent model predictive control of signaling split in urban traffic networks. Transportation Research Part C: Emerging Technologies, 2010, 18, 120-139.                                                        | 7.6  | 171       |
| 95  | Optimization-Based Dynamic Reconfiguration of Real-Time Schedulers With Support for Stochastic Processor Consumption. IEEE Transactions on Industrial Informatics, 2010, 6, 594-609.                                | 11.3 | 13        |
| 96  | Distributed model predictive control applied to urban traffic networks: Implementation, experimentation, and analysis. , 2010, , .                                                                                  |      | 6         |
| 97  | Distributed optimization for predictive control with input and state constraints: Preliminary theory and application to urban traffic control. , 2009, , .                                                          |      | 6         |
| 98  | Dynamic Reconfiguration in Reservation-Based Scheduling: An Optimization Approach. , 2009, , .                                                                                                                      |      | 8         |
| 99  | Lift-Gas Allocation Under Precedence Constraints: MILP Formulation and Computational Analysis. IEEE Transactions on Automation Science and Engineering, 2009, 6, 544-551.                                           | 5.2  | 18        |
| 100 | Distributed Optimization for Model Predictive Control of Linear-Dynamic Networks. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 1331-1338.                               | 2.9  | 60        |
| 101 | Distributed Optimization for Predictive Control of a Distillation Column with Output and Control-Input Constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 423-428. | 0.4  | 4         |
| 102 | Dynamic Reconfiguration for Adaptive Multiversion Real-Time Systems. , 2008, , .                                                                                                                                    |      | 9         |
| 103 | Column generation for solving a compressor scheduling problem. , 2008, , .                                                                                                                                          |      | 1         |
| 104 | PREDICTIVE CONTROL FOR URBAN TRAFFIC NETWORKS: INITIAL EVALUATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 424-429.                                                  | 0.4  | 13        |
| 105 | Distributed Model Predictive Control: Synchronous and Asynchronous Computation. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 732-745.                                   | 2.9  | 78        |
| 106 | Lift-gas allocation under precedence constraints: 1-configuration inequalities. , 2007, , .                                                                                                                         |      | 0         |
| 107 | Compressor Scheduling in Oil Fields: A Piecewise-Linear Formulation. , 2007, , .                                                                                                                                    |      | 5         |
| 108 | Optimizing gas-lift production of oil wells: piecewise linear formulation and computational analysis. IIE Transactions, 2006, 38, 173-182.                                                                          | 2.1  | 36        |

| #   | ARTICLE                                                                                                                                                                                                      | IF  | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | THE FACILITY LOCATION PROBLEM: MODEL, ALGORITHM, AND APPLICATION TO COMPRESSOR ALLOCATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 247-252.                   | 0.4 | 3         |
| 110 | COMBINING THE TUC URBAN TRAFFIC CONTROL STRATEGY WITH BANDWIDTH MAXIMISATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 61-66.                                  | 0.4 | 2         |
| 111 | A PROBING LOOK INTO CUTTING-PLANE ALGORITHMS FOR BANDWIDTH MAXIMIZATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 67-72.                                       | 0.4 | 0         |
| 112 | Solving a gas-lift optimization problem by dynamic programming. European Journal of Operational Research, 2006, 174, 1220-1246.                                                                              | 5.7 | 56        |
| 113 | Altruistic agents in uncertain dynamic games. Journal of Computer and Systems Sciences International, 2006, 45, 536-552.                                                                                     | 0.6 | 6         |
| 114 | Optimal Allocation of Lift-Gas Rates Under Multiple Facility Constraints: A Mixed Integer Linear Programming Approach. Journal of Energy Resources Technology, Transactions of the ASME, 2006, 128, 280-289. | 2.3 | 12        |
| 115 | NONLINEAR MODEL BASED PREDICTIVE CONTROLLER OF A BUCK BOOST CONVERTER. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 193-198.                                       | 0.4 | 3         |
| 116 | Supporting Differentiated QoS in MPLS Networks. Lecture Notes in Computer Science, 2005, , 206-218.                                                                                                          | 1.3 | 0         |
| 117 | Designing Communication Networks to Decompose Network Control Problems. INFORMS Journal on Computing, 2005, 17, 207-223.                                                                                     | 1.7 | 16        |
| 118 | Designing communication networks for distributed control agents. European Journal of Operational Research, 2004, 153, 544-563.                                                                               | 5.7 | 11        |
| 119 | Distributed Learning Agents in Urban Traffic Control. Lecture Notes in Computer Science, 2003, , 324-335.                                                                                                    | 1.3 | 43        |
| 120 | Altruistic Agents in Dynamic Games. Lecture Notes in Computer Science, 2002, , 74-84.                                                                                                                        | 1.3 | 3         |
| 121 | <title>Collaboration strategy for autonomous highly specialized robots</title>. , 1997, 3209, 101.                                                                                                           |     | 1         |
| 122 | A COMPUTATIONAL ANALYSIS OF A BILEVEL DECOMPOSITION FOR MPC OF RESOURCE CONSTRAINED DYNAMIC SYSTEMS. , 0, , .                                                                                                |     | 1         |