Eduardo Camponogara

List of Publications by Year
in descending order

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122	1,816	361045	329751
papers	citations	20 h-index	37 g-index

125	125	125	1445
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multi-agent model predictive control of signaling split in urban traffic networks. Transportation Research Part C: Emerging Technologies, 2010, 18, 120-139.	3.9	171
2	Optimizing building comfort temperature regulation via model predictive control. Energy and Buildings, 2013, 57, 361-372.	3.1	101
3	Distributed Model Predictive Control: Synchronous and Asynchronous Computation. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 732-745.	3.4	78
4	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.	3.4	78
5	Efficient building energy management using distributed model predictive control. Journal of Process Control, 2014, 24, 740-749.	1.7	75
6	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.	3.4	60
7	Echo State Networks for data-driven downhole pressure estimation in gas-lift oil wells. Neural Networks, 2017, 85, 106-117.	3.3	60
8	Solving a gas-lift optimization problem by dynamic programming. European Journal of Operational Research, 2006, 174, 1220-1246.	3.5	56
9	A computational analysis of multidimensional piecewise-linear models with applications to oil production optimization. European Journal of Operational Research, 2014, 232, 630-642.	3.5	55
10	Integrated production optimization of oil fields with pressure and routing constraints: The Urucu field. Computers and Chemical Engineering, 2012, 46, 178-189.	2.0	44
11	Distributed Learning Agents in Urban Traffic Control. Lecture Notes in Computer Science, 2003, , 324-335.	1.0	43
12	Design optimization of oilfield subsea infrastructures with manifold placement and pipeline layout. Computers and Chemical Engineering, 2018, 108, 163-178.	2.0	42
13	Optimizing gas-lift production of oil wells: piecewise linear formulation and computational analysis. IIE Transactions, 2006, 38, 173-182.	2.1	36
14	Mixed-integer linear optimization for optimal lift-gas allocation with well-separator routing. European Journal of Operational Research, 2012, 217, 222-231.	3.5	32
15	Models and Algorithms for Optimal Piecewise-Linear Function Approximation. Mathematical Problems in Engineering, 2015, 2015, 1-9.	0.6	31
16	An automation system for gas-lifted oil wells: Model identification, control, and optimization. Journal of Petroleum Science and Engineering, 2010, 70, 157-167.	2.1	30
17	Iterative Quadratic Optimization for the Bus Holding Control Problem. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 1568-1575.	4.7	28
18	Cost Effective Real-Time Traffic Signal Control Using the TUC Strategy. IEEE Intelligent Transportation Systems Magazine, 2010, 2, 6-17.	2.6	27

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19	Real-Time Integrated Holding and Priority Control Strategy for Transit Systems. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3459-3469.	4.7	26
20	Derivative-free methods applied to daily production optimization of gas-lifted oil fields. Computers and Chemical Engineering, 2015, 75, 60-64.	2.0	23
21	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.	3.7	20
22	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.	2.1	19
23	Piecewiseâ€linear approximations for a nonâ€linear transmission expansion planning problem. IET Generation, Transmission and Distribution, 2015, 9, 1235-1244.	1.4	19
24	A piecewise McCormick relaxation-based strategy for scheduling operations in a crude oil terminal. Computers and Chemical Engineering, 2017, 106, 309-321.	2.0	19
25	Task scheduling for optimal power management and quality-of-service assurance in CubeSats. Acta Astronautica, 2021, 179, 550-560.	1.7	19
26	A relax-and-fix and fix-and-optimize algorithm for a Maritime Inventory Routing Problem. Computers and Operations Research, 2022, 137, 105520.	2.4	19
27	Lift-Gas Allocation Under Precedence Constraints: MILP Formulation and Computational Analysis. IEEE Transactions on Automation Science and Engineering, 2009, 6, 544-551.	3.4	18
28	Output-Constraint Handling and Parallelization for Oil-Reservoir Control Optimization by Means of Multiple Shooting. SPE Journal, 2015, 20, 856-871.	1.7	18
29	Integrated headway and bus priority control in transit corridors with bidirectional lane segments. Transportation Research Part C: Emerging Technologies, 2020, 111, 114-134.	3.9	18
30	Integrated Methodology for Production Optimization from Multiple Offshore Reservoirs in the Santos Basin. IEEE Transactions on Automation Science and Engineering, 2017, 14, 669-680.	3.4	17
31	Online learning control with Echo State Networks of an oil production platform. Engineering Applications of Artificial Intelligence, 2019, 85, 214-228.	4.3	17
32	Designing Communication Networks to Decompose Network Control Problems. INFORMS Journal on Computing, 2005, 17, 207-223.	1.0	16
33	Distributed Optimization for MPC of Linear Networks With Uncertain Dynamics. IEEE Transactions on Automatic Control, 2012, 57, 804-809.	3.6	16
34	Distributed MPC for urban traffic networks: A simulationâ€based performance analysis. Optimal Control Applications and Methods, 2015, 36, 353-368.	1.3	16
35	Nonlinear Model Predictive Control of an Oil Well with Echo State Networks. IFAC-PapersOnLine, 2018, 51, 13-18.	0.5	16
36	Headway Control in Bus Transit Corridors Served by Multiple Lines. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4680-4692.	4.7	15

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37	Derivative-free parameter tuning for a well multiphase flow simulator. Journal of Petroleum Science and Engineering, 2020, 192, 107288.	2.1	15
38	A revised model for compressor design and scheduling in gas-lifted oil fields. IIE Transactions, 2012, 44, 342-351.	2.1	14
39	PREDICTIVE CONTROL FOR URBAN TRAFFIC NETWORKS: INITIAL EVALUATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 424-429.	0.4	13
40	Optimization-Based Dynamic Reconfiguration of Real-Time Schedulers With Support for Stochastic Processor Consumption. IEEE Transactions on Industrial Informatics, 2010, 6, 594-609.	7.2	13
41	A nanosatellite task scheduling framework to improve mission value using fuzzy constraints. Expert Systems With Applications, 2021, 175, 114784.	4.4	13
42	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.	1.4	12
43	An MINLP formulation for integrating the operational management of crude oil supply. Computers and Chemical Engineering, 2019, 123, 110-125.	2.0	12
44	A branch-and-price algorithm for nanosatellite task scheduling to improve mission quality-of-service. European Journal of Operational Research, 2022, 303, 168-183.	3.5	12
45	Designing communication networks for distributed control agents. European Journal of Operational Research, 2004, 153, 544-563.	3.5	11
46	Compressor scheduling in oil fields. Optimization and Engineering, 2011, 12, 153-174.	1.3	11
47	Distributed MPC for resourceâ€constrained control systems. Optimal Control Applications and Methods, 2015, 36, 272-291.	1.3	11
48	Echo State Networks for Practical Nonlinear Model Predictive Control of Unknown Dynamic Systems. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2615-2629.	7.2	11
49	Holding Control of Bus Bunching without Explicit Service Headways. IFAC-PapersOnLine, 2016, 49, 209-214.	0.5	10
50	A general optimal operating strategy for commercial membrane distillation facilities. Renewable Energy, 2020, 156, 220-234.	4.3	10
51	Dynamic Reconfiguration for Adaptive Multiversion Real-Time Systems. , 2008, , .		9
52	Distributed Satisficing MPC. IEEE Transactions on Control Systems Technology, 2015, 23, 305-312.	3.2	9
53	Robust formulations for production optimization of satellite oil wells. Engineering Optimization, 2017, 49, 846-863.	1.5	9
54	Relaxed hybrid consensus ADMM for distributed convex optimisation with coupling constraints. IET Control Theory and Applications, 2019, 13, 2828-2837.	1.2	9

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55	Hierarchical decompositions for MPC of resource constrained control systems: applications to building energy management. Optimization and Engineering, 2021, 22, 187-215.	1.3	9
56	A MILP-based clustering strategy for integrating the operational management of crude oil supply. Computers and Chemical Engineering, 2021, 145, 107161.	2.0	9
57	Dynamic Reconfiguration in Reservation-Based Scheduling: An Optimization Approach. , 2009, , .		8
58	Tuning of oil well models with production data reconciliation. Computers and Chemical Engineering, 2021, 145, 107179.	2.0	8
59	Nonlinear Model Predictive Control of Electrical Submersible Pumps based on Echo State Networks. Advanced Engineering Informatics, 2022, 52, 101553.	4.0	8
60	Integrated Coal-Mining Operations Planning: Modeling and Case Study. International Journal of Coal Preparation and Utilization, 2011, 31, 299-334.	1.2	7
61	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.	0.7	7
62	Scheduling dynamically positioned tankers for offshore oil offloading. International Journal of Production Research, 2014, 52, 7251-7261.	4.9	7
63	Altruistic agents in uncertain dynamic games. Journal of Computer and Systems Sciences International, 2006, 45, 536-552.	0.2	6
64	Distributed optimization for predictive control with input and state constraints: Preliminary theory and application to urban traffic control. , 2009, , .		6
65	Distributed model predictive control applied to urban traffic networks: Implementation, experimentation, and analysis. , 2010, , .		6
66	Special Issue on Intelligent Agents in Traffic and Transportation. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2015, 19, 1-2.	2.6	6
67	Reception, mixture, and transfer in a crude oil terminal. Computers and Chemical Engineering, 2015, 82, 293-302.	2.0	6
68	Distributed Satisficing MPC With Guarantee of Stability. IEEE Transactions on Automatic Control, 2016, 61, 532-537.	3.6	6
69	Network-Constrained Production Optimization by Means of Multiple Shooting. SPE Reservoir Evaluation and Engineering, 2019, 22, 709-733.	1.1	6
70	Output feedback design for discrete-time constrained systems subject to persistent disturbances via bilinear programming. Journal of the Franklin Institute, 2021, 358, 9741-9770.	1.9	6
71	An Energy-Aware Task Scheduling for Quality-of-Service Assurance in Constellations of Nanosatellites. Sensors, 2022, 22, 3715.	2.1	6
72	Compressor Scheduling in Oil Fields: A Piecewise-Linear Formulation. , 2007, , .		5

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73	Self-Configuration and Self-Optimization Process in Heterogeneous Wireless Networks. Sensors, 2011, 11, 425-454.	2.1	5
74	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
75	Systemwide Optimal Control of Offshore Oil Production Networks with Time Dependent Constraints. IFAC-PapersOnLine, 2015, 48, 200-207.	0.5	5
76	An augmented Lagrangian method for optimal control of continuous time DAE systems. , 2016, , .		5
77	Explicit Computation of Stabilizing Feedback Control Gains Using Polyhedral Lyapunov Functions. , 2018, , .		5
78	Derivative-free trust region optimization for robust well control under geological uncertainty. Computational Geosciences, 2022, 26, 329-349.	1.2	5
79	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
80	Optimizing quality of service in real-time systems under energy constraints. Operating Systems Review (ACM), 2012, 46, 82-92.	1.5	4
81	Automatic control of flow gathering networks: A mixed-integer receding horizon control applied to an onshore oilfield. Control Engineering Practice, 2019, 86, 48-55.	3.2	4
82	A framework to estimate dwell time of BRT systems using fuzzy regression. Journal of Intelligent and Fuzzy Systems, 2020, 38, 5279-5293.	0.8	4
83	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
84	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
85	Transfer function modeling of linear dynamic networks for distributed MPC. , 2011, , .		3
86	Optimizing QoS in Adaptive Real-Time Systems with Energy Constraint Varying CPU Frequency. , 2013, , .		3
87	Optimizing QoS in energy-aware real-time systems. ACM SIGBED Review, 2013, 10, 25-25.	1.8	3
88	Scheduling pumpoff operations in onshore oilfields under electric-power constraints. European Journal of Operational Research, 2015, 247, 945-956.	3.5	3
89	A Branch-and-Price algorithm for a compressor scheduling problem. Computers and Industrial Engineering, 2018, 116, 72-81.	3.4	3
90	Derivative-Free Optimization of Offshore Production Platforms Sharing a Subsea Gas Network âŽ âŽThis work was funded in part by Petrobras and CNPq.. IFAC-PapersOnLine, 2018, 51, 185-190.	0.5	3

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91	Introducing approximate well dynamics into production optimization for operations scheduling. Computers and Chemical Engineering, 2020, 136, 106773.	2.0	3
92	Short-term steady-state production optimization of offshore oil platforms: wells with dual completion (gas-lift and ESP) and flow assurance. Top, 2022, 30, 152-180.	1.1	3
93	Altruistic Agents in Dynamic Games. Lecture Notes in Computer Science, 2002, , 74-84.	1.0	3
94	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
95	A mixed-integer linear programming model for automatic routing decisions in oil production optimization. , 2013, , .		2
96	Optimising QoS in adaptive real-time systems with energy constraint varying CPU frequency. International Journal of Embedded Systems, 2016, 8, 368.	0.2	2
97	Scheduling pumpoff operations in onshore oilfields with electric-power constraints and variable cycle time. Computers and Operations Research, 2018, 91, 247-257.	2.4	2
98	Mixed-integer bilinear and piecewise-linear models for designing switching strategies of multilevel power converters. Computers and Electrical Engineering, 2019, 77, 88-108.	3.0	2
99	Decompositions for MPC of Linear Dynamic Systems with Activation Constraints. Energies, 2020, 13, 5744.	1.6	2
100	Generalized Auto-Sequencing Bus Headway Control Formulation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6460-6472.	4.7	2
101	Control Optimization of Pump Cycles in Onshore Oilfields With Network and Electric Power Constraints. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	2
102	A derivative-free exact penalty algorithm: basic ideas, convergence theory and computational studies. Computational and Applied Mathematics, 2022, 41, 1.	1.0	2
103	<title>Collaboration strategy for autonomous highly specialized robots</title>. , 1997, 3209, 101.		1
104	Column generation for solving a compressor scheduling problem. , 2008, , .		1
105	A Model for Reconfiguration of Multi-Modal Real-Time Systems under Energy Constraints. , 2011, , .		1
106	A framework for adaptive tuning of distributed model predictive controllers by Lagrange multipliers. , 2011, , .		1
107	A Model Considering QoS for Real-Time Systems with Energy and Temperature Constraints. , 2014, , .		1
108	System Identification of a Vertical Riser Model with Echo State Networksâˆ—1This work was partially funded by CNPq under grants 471978/2013-2 and 501507/2013-2.. IFAC-PapersOnLine, 2015, 48, 304-310.	0.5	1

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109	A distributed dual algorithm for distributed MPC with application to urban traffic control. , 2017, , .		1
110	An Augmented Lagrangian for Optimal Control of DAE Systems: Algorithm and Properties. IEEE Transactions on Automatic Control, 2021, 66, 261-266.	3.6	1
111	Modelo e controle da operaÃ§Ã£o de um sistema BRT com segmento de faixa exclusiva Ãºnica bidirecional. Transportes, 2011, 19, 12.	0.3	1
112	A COMPUTATIONAL ANALYSIS OF A BILEVEL DECOMPOSITION FOR MPC OF RESOURCE CONSTRAINED DYNAMIC SYSTEMS. , 0, , .		1
113	Supporting Differentiated QoS in MPLS Networks. Lecture Notes in Computer Science, 2005, , 206-218.	1.0	0
114	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
115	Lift-gas allocation under precedence constraints: 1-configuration inequalities. , 2007, , .		0
116	About Agents and Predictive Controlles. , 2011, , .		0
117	A computational analysis of nondifferentiable optimization: Applications to production maximization in gas-lifted oil fields. , 2013, , .		0
118	A piecewise linear-quadratic approximation for production optimization of gas-lifted oil fields. , 2015, , .		0
119	Derivative-free optimization with use of problem structure: Applications to oil production. , 2015, , .		0
120	Black-oil minimal fluid state parametrization for constrained reservoir control optimization. Journal of Petroleum Science and Engineering, 2016, 143, 35-43.	2.1	0
121	Optimising QoS in adaptive real-time systems with energy constraint varying CPU frequency. International Journal of Embedded Systems, 2016, 8, 368.	0.2	0
122	A Computational Analysis of Decomposition Strategies for Model Predictive Control of Resource-Constrained Dynamic Systems. IEEE Latin America Transactions, 2020, 18, 1933-1942.	1.2	0