Louis Caccetta

List of Publications by Year
in descending order

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103	2,015	236925	276875
papers	citations	25	41
		h-index	g-index

110	110	110	1325
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Application of Branch and Cut to Open Pit Mine Scheduling. Journal of Global Optimization, 2003, 27, 349-365.	1.8	190
2	A new car-following model with consideration of roadside memorial. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3845-3850.	2.1	101
3	A globally and quadratically convergent method forÂabsolute value equations. Computational Optimization and Applications, 2011, 48, 45-58.	1.6	95
4	An aircraft boarding model accounting for passengersâ€™ individual properties. Transportation Research Part C: Emerging Technologies, 2012, 22, 1-16.	7.6	84
5	A macro model for traffic flow on road networks with varying road conditions. Journal of Advanced Transportation, 2014, 48, 304-317.	1.7	66
6	Match factor for heterogeneous truck and loader fleets. International Journal of Mining, Reclamation and Environment, 2007, 21, 262-270.	2.8	64
7	Robust multi-objective optimal switching control arising in 1,3-propanediol microbial fed-batch process. Nonlinear Analysis: Hybrid Systems, 2017, 25, 1-20.	3.5	63
8	A positive linear discrete-time model of capacity planning and its controllability properties. Mathematical and Computer Modelling, 2004, 40, 217-226.	2.0	59
9	A Survey of Reachability and Controllability for Positive Linear Systems. Annals of Operations Research, 2000, 98, 101-122.	4.1	58
10	Nonlocal fractional order differential equations with changing-sign singular perturbation. Applied Mathematical Modelling, 2015, 39, 6543-6552.	4.2	55
11	Equipment Selection for Surface Mining: A Review. Interfaces, 2014, 44, 143-162.	1.5	54
12	On diameter critical graphs. Discrete Mathematics, 1979, 28, 223-229.	0.7	51
13	An integrated predictive model with an on-line updating strategy for iron precipitation in zinc hydrometallurgy. Hydrometallurgy, 2015, 151, 62-72.	4.3	49
14	An Improved Branch-and-Cut Algorithm for the Capacitated Vehicle Routing Problem. Transportation Science, 2003, 37, 153-169.	4.4	47
15	Convergence analysis of a block improvement method for polynomial optimization over unit spheres. Numerical Linear Algebra With Applications, 2015, 22, 1059-1076.	1.6	46
16	In-situ immunophenotyping study of hepatic-infiltrating cytotoxic cells in chronic active hepatitis C. European Journal of Gastroenterology and Hepatology, 1997, 9, 491-496.	1.6	40
17	<i>Z</i>-Eigenvalue Inclusion Theorems for Tensors. Discrete and Continuous Dynamical Systems - Series B, 2017, 22, 187-198.	0.9	37
18	A new subtour elimination constraint for the vehicle routing problem. European Journal of Operational Research, 1996, 91, 573-586.	5.7	35

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19	The SC1 property of an expected residual function arising from stochastic complementarity problems. Operations Research Letters, 2008, 36, 456-460.	0.7	35
20	Computational aspects of hard Knapsack problems. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 5547-5558.	1.1	34
21	Integer linear programming formulation for a vehicle routing problem. European Journal of Operational Research, 1991, 52, 86-89.	5.7	32
22	A branch and cut method for the degree-constrained minimum spanning tree problem. Networks, 2001, 37, 74-83.	2.7	32
23	Nonsingular H-tensor and its criteria. Journal of Industrial and Management Optimization, 2016, 12, 1173-1186.	1.3	32
24	An Alternative Lagrange-Dual Based Algorithm for Sparse Signal Reconstruction. IEEE Transactions on Signal Processing, 2011, 59, 1895-1901.	5.3	30
25	Convergence of an algorithm for the largest singular value of a nonnegative rectangular tensor. Linear Algebra and Its Applications, 2013, 438, 959-968.	0.9	26
26	The effect of origin and genetic processes of low molecular weight aromatic hydrocarbons in petroleum on their stable carbon isotopic compositions. Organic Geochemistry, 2014, 72, 23-33.	1.8	26
27	Feasible Semismooth Newton Method for a Class ofÂStochastic Linear Complementarity Problems. Journal of Optimization Theory and Applications, 2008, 139, 379-392.	1.5	25
28	Application of Optimisation Techniques in Open Pit Mining. , 2007, , 547-559.		22
29	Optimal design of complex FIR filters with arbitrary magnitude and group delay responses. IEEE Transactions on Signal Processing, 2006, 54, 1617-1628.	5.3	21
30	An application of discrete mathematics in the design of an open pit mine. Discrete Applied Mathematics, 1988, 21, 1-19.	0.9	20
31	On the adjacency properties of paley graphs. Networks, 1993, 23, 227-236.	2.7	20
32	Solving the multisensor data association problem. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 5525-5536.	1.1	20
33	Equipment selection with heterogeneous fleets for multiple-period schedules. Journal of the Operational Research Society, 2011, 62, 1498-1509.	3.4	20
34	Propagating properties of traffic flow on a ring road without ramp. Physica A: Statistical Mechanics and Its Applications, 2014, 396, 164-172.	2.6	20
35	Graphs of maximum diameter. Discrete Mathematics, 1992, 102, 121-141.	0.7	19
36	A Weighted Least-Square-Based Approach to FIR Filter Design Using the Frequency-Response Masking Technique. IEEE Signal Processing Letters, 2004, 11, 593-596.	3.6	19

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37	Optimal Design of All-Pass Variable Fractional-Delay Digital Filters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 1248-1256.	5.4	19
38	Parameter selection for nonnegative <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>l</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mr matrix/tensor sparse decomposition. Operations Research Letters, 2015, 43, 423-426.	0.7	18
39	Computational aspects of the facility layout design problem. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 5599-5610.	1.1	16
40	Nonnegative Polynomial Optimization over Unit Spheres and Convex Programming Relaxations. SIAM Journal on Optimization, 2012, 22, 987-1008.	2.0	16
41	An Improved Clarke and Wright Algorithm to Solve the Capacitated Vehicle Routing Problem. Engineering, Technology & Applied Science Research, 2013, 3, 413-415.	1.9	15
42	ON EXTREMAL GRAPHS WITH GIVEN DIAMETER AND CONNECTIVITY. Annals of the New York Academy of Sciences, 1979, 328, 76-94.	3.8	14
43	Maximal cycles in graphs. Discrete Mathematics, 1991, 98, 1-7.	0.7	14
44	Orthogonal matchings. Discrete Mathematics, 1998, 179, 37-47.	0.7	13
45	Total minus domination in k-partite graphs. Discrete Mathematics, 2006, 306, 1771-1775.	0.7	13
46	A Superlinearly Convergent Method for a Class of Complementarity Problems with Non-Lipschitzian Functions. SIAM Journal on Optimization, 2010, 20, 1811-1827.	2.0	12
47	A unified approach to multistage frequency-response masking filter design using the WLS technique. IEEE Transactions on Signal Processing, 2006, 54, 3459-3467.	5.3	11
48	Adaptive Jacobian force/position tracking for space free-flying robots with prescribed transient performance. Robotics and Autonomous Systems, 2015, 72, 235-247.	5.1	11
49	Branch and cut methods for network optimization. Mathematical and Computer Modelling, 2001, 33, 517-532.	2.0	10
50	FREQUENCY-RESPONSE MASKING BASED FIR FILTER DESIGN WITH POWER-OF-TWO COEFFICIENTS AND SUBOPTIMUM PWR. Journal of Circuits, Systems and Computers, 2003, 12, 591-599.	1.5	10
51	Match factor for heterogeneous truck and loader fleets. International Journal of Mining, Reclamation and Environment, 2008, 22, 84-85.	2.8	10
52	A weighted least squares approach to the design of FIR filters synthesized using the modified frequency response masking structure. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 379-383.	2.2	9
53	Birkhoff-von Neumann theorem and decomposition for doubly stochastic tensors. Linear Algebra and Its Applications, 2019, 583, 119-133.	0.9	9
54	An MILP approach to multi-location, multi-period equipment selection for surface mining with case studies. Journal of Industrial and Management Optimization, 2015, 12, 403-430.	1.3	9

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55	Extremal graphs of diameter 4. Journal of Combinatorial Theory Series B, 1976, 21, 104-115.	1.0	8
56	Vulnerability of communication networks. Networks, 1984, 14, 141-146.	2.7	8
57	Graphs with unavoidable subgraphs with large degrees. Journal of Graph Theory, 1988, 12, 17-27.	0.9	8
58	Optimal Pricing and Production Planning for Multi-product Multi-period Systems with Backorders. Journal of Optimization Theory and Applications, 2013, 158, 896-917.	1.5	8
59	Matching extension and minimum degree. Discrete Mathematics, 1997, 170, 1-13.	0.7	7
60	Cubic and quadruple Paley graphs with the <mml:math altimg="si4.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.els. Discrete M	0.7	7
61	Immunoresponsiveness in Chronic Hepatitis C Patients: Correlation Between Tissue and Serum Findings. Immunopharmacology and Immunotoxicology, 1998, 20, 337-354.	2.4	6
62	Computational aspects of the optimal transit path problem. Journal of Industrial and Management Optimization, 2008, 4, 95-105.	1.3	6
63	Computational models for timetabling problem. Numerical Algebra, Control and Optimization, 2014, 4, 269-285.	1.6	6
64	RECENT DEVELOPMENTS IN REACHABILITY AND CONTROLLABILITY OF POSITIVE LINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 35-46.	0.4	5
65	Edge Maximal Non-Bipartite Graphs Without Odd Cycles of Prescribed Lengths. Graphs and Combinatorics, 2002, 18, 75-92.	0.4	5
66	Modelling discontinuous terrain from DSMs using segment labelling, outlier removal and thin-plate splines. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 155, 159-171.	11.1	5
67	Branch and Cut Methods for Mixed Integer Linear Programming Problems. Applied Optimization, 2000, , 21-44.	0.4	5
68	A note on graphs with a prescribed adjacency property. Bulletin of the Australian Mathematical Society, 1995, 51, 5-15.	0.5	4
69	Regular graphs with prescribed chromatic number. Journal of Graph Theory, 1990, 14, 65-71.	0.9	3
70	Long cycles in subgraphs with prescribed minimum degree. Discrete Mathematics, 1991, 97, 69-81.	0.7	3
71	A Characterization of 3-(Î³ c , 2)-Critical Claw-Free Graphs Which are not 3-Î³ c -Critical. Graphs and Combinatorics, 2010, 26, 315-328.	0.4	3
72	Hybrid Intelligence Model Based on Image Features for the Prediction of Flotation Concentrate Grade. Abstract and Applied Analysis, 2014, 2014, 1-17.	0.7	3

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73	Practical exponential set stabilization for switched nonlinear systems with multiple subsystem equilibria. Journal of Global Optimization, 2016, 65, 109-118.	1.8	3
74	On clique covering numbers of cubic graphs. Lecture Notes in Mathematics, 1983, , 121-127.	0.2	2
75	A Problem in Arrangements. Mathematical Gazette, 1984, 68, 106.	0.0	2
76	On mixed ramsey numbers. Discrete Mathematics, 1996, 151, 3-13.	0.7	2
77	Binary Labeling of Graphs. Graphs and Combinatorics, 1997, 13, 119-137.	0.4	2
78	Solving 0â€“1 Programming Problems by a Penalty Approach. Opsearch, 1997, 34, 196-206.	1.8	2
79	Frequency-response masking based FIR filter design with power-of-two coefficients and optimum PWR. , 0, , .		2
80	Numerical Solution of Optimal Control Problems with Discrete-Valued System Parameters. Journal of Global Optimization, 2002, 23, 233-244.	1.8	2
81	A characterization of maximal non-k-factor-critical graphs. Discrete Mathematics, 2007, 307, 108-114.	0.7	2
82	Impact of price-adjustments costs on integration of pricing and production planning of multiple-products. Optimization Letters, 2015, 9, 119-142.	1.6	2
83	The Non-convex Sparse Problem with Nonnegative Constraint for Signal Reconstruction. Journal of Optimization Theory and Applications, 2016, 170, 1009-1025.	1.5	2
84	Global well-posedness and blow-up for the hartree equation. Acta Mathematica Scientia, 2017, 37, 941-948.	1.0	2
85	Approximation algorithms for nonnegative polynomial optimization problems over unit spheres. Frontiers of Mathematics in China, 2017, 12, 1409-1426.	0.7	2
86	DIGITAL TERRAIN FROM A TWO-STEP SEGMENTATION AND OUTLIER-BASED ALGORITHM. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B3, 233-239.	0.2	2
87	An improved algorithm to evaluate the reliability of a circular consecutive 2-out-of-r-from-n:F system. , 0, , .		1
88	On the vehicle routing problem. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 4277-4288.	1.1	1
89	Monomial decomposition of reachable and controllable positive linear systems. , 2002, , .		1
90	Cardinality constrained path covering problems in grid graphs. Networks, 2004, 44, 120-131.	2.7	1

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91	Stability of standing waves for the Kleinâ€“Gordonâ€“Hartree equation. Applicable Analysis, 2016, 95, 1000-1012.	1.3	1
92	A branch and cut method for the degreeâ€constrained minimum spanning tree problem. Networks, 2001, 37, 74-83.	2.7	1
93	Methodology: Preliminaries andÂBackground. Studies in Systems, Decision and Control, 2018, , 11-23.	1.0	1
94	Mixed integer programming model for scheduling in unrelated parallel processor system with priority consideration. Numerical Algebra, Control and Optimization, 2014, 4, 115-132.	1.6	1
95	On a problem concerning ordered colourings. Discrete Mathematics, 1998, 190, 241-245.	0.7	0
96	On vertex critical graphs with prescribed diameter. Journal of Graph Theory, 2003, 43, 117-131.	0.9	0
97	An alternating variable approach to FIR filter design with power-of-two coefficients using the frequency-response masking technique. , 0, , .		0
98	MILP model for resource disruption in parallel processor system. , 2015, , .		0
99	A characterization of 3-i-critical graphs of connectivity two. Quaestiones Mathematicae, 2017, 40, 937-965.	0.6	0
100	A dynamic model of mobile source air pollution and its properties. WIT Transactions on Biomedicine and Health, 2007, , .	0.0	0
101	Multiple Locations Equipment Selection. Studies in Systems, Decision and Control, 2018, , 91-114.	1.0	0
102	Match Factor Extensions. Studies in Systems, Decision and Control, 2018, , 53-61.	1.0	0
103	Single Location Equipment Selection. Studies in Systems, Decision and Control, 2018, , 75-90.	1.0	0