

# Manlio Gaudio

## List of Publications by Year in descending order

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76  
papers

1,458  
citations

304368

22  
h-index

360668

35  
g-index

81  
all docs

81  
docs citations

81  
times ranked

757  
citing authors

#	ARTICLE	IF	CITATIONS
1	A heuristic approach for multiple instance learning by linear separation. <i>Soft Computing</i> , 2022, 26, 3361-3368.	2.1	5
2	Essentials of numerical nonsmooth optimization. <i>Annals of Operations Research</i> , 2022, 314, 213-253.	2.6	2
3	A Lagrangian heuristics for the truck scheduling problem in multi-door, multi-product Cross-Docking with constant processing time. <i>Omega</i> , 2021, 101, 102255.	3.6	19
4	A Lagrangian approach for the minimum spanning tree problem with conflicting edge pairs. <i>Networks</i> , 2021, 78, 32-45.	1.6	10
5	A new extended formulation with valid inequalities for the Capacitated Concentrator Location Problem. <i>European Journal of Operational Research</i> , 2021, 289, 975-986.	3.5	0
6	Polyhedral separation via difference of convex (DC) programming. <i>Soft Computing</i> , 2021, 25, 12605-12613.	2.1	4
7	Feature selection in SVM via polyhedral k-norm. <i>Optimization Letters</i> , 2020, 14, 19-36.	0.9	17
8	Classification in the multiple instance learning framework via spherical separation. <i>Soft Computing</i> , 2020, 24, 5071-5077.	2.1	23
9	Essentials of numerical nonsmooth optimization. <i>4or</i> , 2020, 18, 1-47.	1.0	9
10	A View of Lagrangian Relaxation and Its Applications. , 2020, , 579-617.		5
11	A Lagrangian Relaxation Approach for Binary Multiple Instance Classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 2662-2671.	7.2	25
12	Diagonal bundle method with convex and concave updates for large-scale nonconvex and nonsmooth optimization. <i>Optimization Methods and Software</i> , 2019, 34, 363-382.	1.6	4
13	Truck synchronization at single door cross-docking terminals. <i>OR Spectrum</i> , 2018, 40, 395-447.	2.1	12
14	A Lagrangean-based decomposition approach for the link constrained Steiner tree problem. <i>Optimization Methods and Software</i> , 2018, 33, 650-670.	1.6	5
15	A savings-based model for two-shipper cooperative routing. <i>Optimization Letters</i> , 2018, 12, 1811-1824.	0.9	1
16	Lagrangian relaxation for the directional sensor coverage problem with continuous orientation. <i>Omega</i> , 2018, 75, 77-86.	3.6	12
17	Minimizing Piecewise-Concave Functions Over Polyhedra. <i>Mathematics of Operations Research</i> , 2018, 43, 580-597.	0.8	15
18	Minimizing nonsmooth DC functions via successive DC piecewise-affine approximations. <i>Journal of Global Optimization</i> , 2018, 71, 37-55.	1.1	47

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19	Numerical infinitesimals in a variable metric method for convex nonsmooth optimization. Applied Mathematics and Computation, 2018, 318, 312-320.	1.4	41
20	A Multiple Instance Learning Algorithm for Color Images Classification. , 2018, , .		21
21	Malicious URL detection via spherical classification. Neural Computing and Applications, 2017, 28, 699-705.	3.2	14
22	A DC optimization-based clustering technique for edge detection. Optimization Letters, 2017, 11, 627-640.	0.9	19
23	A method for convex minimization based on translated first-order approximations. Numerical Algorithms, 2017, 76, 745-760.	1.1	5
24	Lagrangian relaxation for SVM feature selection. Computers and Operations Research, 2017, 87, 137-145.	2.4	43
25	Robust spherical separation. Optimization, 2017, 66, 925-938.	1.0	7
26	Optimizing sensor cover energy for directional sensors. AIP Conference Proceedings, 2016, , .	0.3	2
27	Nonlinear programming for classification problems in machine learning. AIP Conference Proceedings, 2016, , .	0.3	6
28	An illumination problem with tradeoff between coverage of a dataset and aperture angle of a conic light beam. Optimization and Engineering, 2016, 17, 557-575.	1.3	0
29	OMEGA one multi ethnic genetic approach. Optimization Letters, 2016, 10, 309-324.	0.9	18
30	Central axes and peripheral points in high dimensional directional datasets. Computational Optimization and Applications, 2016, 65, 313-338.	0.9	2
31	On numerical solving the spherical separability problem. Journal of Global Optimization, 2016, 66, 21-34.	1.1	9
32	Optimal Replenishment Order Placement in a Finite Time Horizon. Journal of Optimization Theory and Applications, 2015, 164, 1078-1089.	0.8	0
33	A splitting bundle approach for non-smooth non-convex minimization. Optimization, 2015, 64, 1131-1151.	1.0	17
34	A partially inexact bundle method for convex semi-infinite minmax problems. Communications in Nonlinear Science and Numerical Simulation, 2015, 21, 172-180.	1.7	15
35	Vladimir Fedorovich Demyanov (18.08.1938–18.04.2014). Journal of Global Optimization, 2014, 60, 391-392.	1.1	0
36	An illumination problem: optimal apex and optimal orientation for a cone of light. Journal of Global Optimization, 2014, 58, 729-750.	1.1	4

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37	Edge detection by spherical separation. Computational Management Science, 2014, 11, 517-530.	0.8	6
38	Separation of Finitely Many Convex Sets and Data Pre-classification. , 2014, , 179-188.		0
39	Optimised tool-path design to reduce thinning in incremental sheet forming process. International Journal of Material Forming, 2013, 6, 173-178.	0.9	21
40	Lower and upper bounds for the spanning tree with minimum branch vertices. Computational Optimization and Applications, 2013, 56, 405-438.	0.9	31
41	Margin maximization in spherical separation. Computational Optimization and Applications, 2012, 53, 301-322.	0.9	33
42	Piecewise-quadratic Approximations in Convex Numerical Optimization. SIAM Journal on Optimization, 2011, 21, 1418-1438.	1.2	26
43	Data preprocessing in semi-supervised SVM classification. Optimization, 2011, 60, 143-151.	1.0	26
44	Optimised tool-path design to reduce thinning in ISF process. International Journal of Material Forming, 2010, 3, 959-962.	0.9	10
45	DC models for spherical separation. Journal of Global Optimization, 2010, 48, 657-669.	1.1	39
46	Repulsive Assignment Problem. Journal of Optimization Theory and Applications, 2010, 144, 255-273.	0.8	0
47	Gradient set splitting in nonconvex nonsmooth numerical optimization. Optimization Methods and Software, 2010, 25, 59-74.	1.6	13
48	Separation of convex sets by Clarke subdifferential. Optimization, 2010, 59, 1199-1210.	1.0	5
49	Least Square Regression Method for Estimating Gas Concentration in an Electronic Nose System. Sensors, 2009, 9, 1678-1691.	2.1	38
50	A fixed-center spherical separation algorithm with kernel transformations for classification problems. Computational Management Science, 2009, 6, 357-372.	0.8	23
51	On solving the Lagrangian dual of integer programs via an incremental approach. Computational Optimization and Applications, 2009, 44, 117-138.	0.9	18
52	Piecewise linear approximations in nonconvex nonsmooth optimization. Numerische Mathematik, 2009, 113, 73-88.	0.9	12
53	On the Use of the SVM Approach in Analyzing an Electronic Nose. , 2007, , .		2
54	The service allocation problem at the Gioia Tauro Maritime Terminal. European Journal of Operational Research, 2007, 176, 1167-1184.	3.5	75

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55	An Incremental Method for Solving Convex Finite Min-Max Problems. <i>Mathematics of Operations Research</i> , 2006, 31, 173-187.	0.8	35
56	Tuning Strategy for the Proximity Parameter in Convex Minimization. <i>Journal of Optimization Theory and Applications</i> , 2006, 130, 95-112.	0.8	14
57	A branch-and-cut algorithm for the quay crane scheduling problem in a container terminal. <i>Naval Research Logistics</i> , 2006, 53, 45-59.	1.4	158
58	A Memetic Heuristic for the Generalized Quadratic Assignment Problem. <i>INFORMS Journal on Computing</i> , 2006, 18, 433-443.	1.0	43
59	An approach to classification based on separation of sets by means of several ellipsoids. <i>Optimization</i> , 2005, 54, 579-593.	1.0	2
60	Ellipsoidal separation for classification problems. <i>Optimization Methods and Software</i> , 2005, 20, 267-276.	1.6	19
61	A DC piecewise affine model and a bundling technique in nonconvex nonsmooth minimization. <i>Optimization Methods and Software</i> , 2004, 19, 89-102.	1.6	52
62	Minimizing Nonconvex Nonsmooth Functions via Cutting Planes and Proximity Control. <i>SIAM Journal on Optimization</i> , 2004, 14, 743-756.	1.2	90
63	Polyhedral Separability Through Successive LP. <i>Journal of Optimization Theory and Applications</i> , 2002, 112, 265-293.	0.8	55
64	Nonsmooth Problems in Mathematical Diagnostics. <i>Nonconvex Optimization and Its Applications</i> , 2001, , 11-30.	0.1	5
65	A multiplier adjustment technique for the capacitated concentrator location problem. <i>Optimization Methods and Software</i> , 1998, 10, 87-102.	1.6	3
66	The Newton direction and the cutting plane. <i>European Journal of Operational Research</i> , 1994, 73, 172-174.	3.5	0
67	Nonsmooth optimization methods for parallel decomposition of multicommodity flow problems. <i>Annals of Operations Research</i> , 1993, 44, 299-311.	2.6	4
68	Variants to the cutting plane approach for convex nondifferentiable optimization. <i>Optimization</i> , 1992, 25, 65-75.	1.0	26
69	A class of manpower scheduling problems. <i>Zeitschrift Fuer Operations-Research, Serie B: Praxis</i> , 1992, 36, 93-105.	0.3	7
70	Quadratic Approximations in Convex Nondifferentiable Optimization. <i>SIAM Journal on Control and Optimization</i> , 1991, 29, 58-70.	1.1	14
71	Linear programming models for load balancing. <i>Computers and Operations Research</i> , 1991, 18, 59-64.	2.4	6
72	Some Techniques for Finding the Search Direction in Nonsmooth Minimization Problems. , 1989, , 155-166.		1

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73	Mean-variance approach to the management of cyclic deliveries. Computers and Operations Research, 1988, 15, 561-565.	2.4	1
74	Management of periodic demands in distribution systems. European Journal of Operational Research, 1985, 20, 234-238.	3.5	7
75	Stopping criteria for linesearch methods without derivatives. Mathematical Programming, 1984, 30, 285-300.	1.6	37
76	A bundle type approach to the unconstrained minimization of convex nonsmooth functions. Mathematical Programming, 1982, 23, 216-226.	1.6	54