

# Giorgio Gnecco

## List of Publications by Year in descending order

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Version: 2024-02-01

127  
papers

1,352  
citations

361045

20  
h-index

454577

30  
g-index

131  
all docs

131  
docs citations

131  
times ranked

1027  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring players' importance in basketball using the generalized Shapley value. <i>Annals of Operations Research</i> , 2023, 325, 441-465.	2.6	6
2	Hierarchical clustering and matrix completion for the reconstruction of world input-output tables. <i>AStA Advances in Statistical Analysis</i> , 2023, 107, 575-620.	0.4	4
3	Can Machines Learn Creativity Needs? An Approach Based on Matrix Completion. <i>Italian Economic Journal</i> , 2023, 9, 1111-1151.	0.9	4
4	Welfare and research and development incentive effects of uniform and differential pricing schemes. <i>Computational Management Science</i> , 2022, 19, 229-268.	0.8	2
5	Deeper Insights into Neural Nets with Random Weights. <i>Lecture Notes in Computer Science</i> , 2022, , 129-140.	1.0	2
6	Simple Models in Complex Worlds: Occam's Razor and Statistical Learning Theory. <i>Minds and Machines</i> , 2022, 32, 13-42.	2.7	18
7	A machine learning approach to economic complexity based on matrix completion. <i>Scientific Reports</i> , 2022, 12, .	1.6	7
8	Public transport transfers assessment via transferable utility games and Shapley value approximation. <i>Transportmetrica A: Transport Science</i> , 2021, 17, 540-565.	1.3	8
9	Parameter estimation in a $p$ -star random graph model. <i>Networks</i> , 2021, 77, 403-420.	1.6	0
10	On the trade-off between number of examples and precision of supervision in machine learning problems. <i>Optimization Letters</i> , 2021, 15, 1711-1733.	0.9	9
11	Convex combination of data matrices: PCA perturbation bounds for multi-objective optimal design of mechanical metafilters. <i>Mathematical Foundations of Computing</i> , 2021, 4, 253.	0.7	2
12	Computational design of innovative mechanical metafilters via adaptive surrogate-based optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 375, 113623.	3.4	25
13	Optimal data collection design in machine learning: the case of the fixed effects generalized least squares panel data model. <i>Machine Learning</i> , 2021, 110, 1549-1584.	3.4	4
14	Braess' paradox: A cooperative game-theoretic point of view. <i>Networks</i> , 2021, 78, 264-283.	1.6	4
15	Price-volume agreements: a one principal/two agents model. <i>European Journal of Operational Research</i> , 2021, , .	3.5	1
16	Principal Component Analysis Applied to Gradient Fields in Band Gap Optimization Problems for Metamaterials. <i>Journal of Physics: Conference Series</i> , 2021, 2015, 012047.	0.3	4
17	On Braess' Paradox and Average Quality of Service in Transportation Network Cooperative Games. <i>AIRO Springer Series</i> , 2021, , 27-37.	0.4	2
18	Transboundary pollution control and environmental absorption efficiency management. <i>Annals of Operations Research</i> , 2020, 287, 653-681.	2.6	13

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19	Causal tree with instrumental variable: an extension of the causal tree framework to irregular assignment mechanisms. <i>International Journal of Data Science and Analytics</i> , 2020, 9, 315-337.	2.4	13
20	On the Trade-Off Between Number of Examples and Precision of Supervision in Regression. <i>Proceedings of the International Neural Networks Society</i> , 2020, , 1-6.	0.6	7
21	Neural Approximations for Optimal Control and Decision. <i>Communications and Control Engineering</i> , 2020, , .	1.0	19
22	Machine-Learning Techniques for the Optimal Design of Acoustic Metamaterials. <i>Journal of Optimization Theory and Applications</i> , 2020, 187, 630-653.	0.8	62
23	Optimal trade-off between sample size, precision of supervision, and selection probabilities for the unbalanced fixed effects panel data model. <i>Soft Computing</i> , 2020, 24, 15937-15949.	2.1	7
24	Automated Analysis of the Origin of Movement: An Approach Based on Cooperative Games on Graphs. <i>IEEE Transactions on Human-Machine Systems</i> , 2020, 50, 550-560.	2.5	5
25	Multi-Scale Surface Roughness Optimization Through Genetic Algorithms. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	0.8	10
26	Should Simplicity Be Always Preferred to Complexity in Supervised Machine Learning?. <i>Lecture Notes in Computer Science</i> , 2020, , 55-59.	1.0	3
27	Numerical Methods for Integration and Search for Minima. <i>Communications and Control Engineering</i> , 2020, , 207-253.	1.0	0
28	The Basic Infinite-Dimensional or Functional Optimization Problem. <i>Communications and Control Engineering</i> , 2020, , 1-38.	1.0	1
29	Design of Mathematical Models by Learning From Data and FSP Functions. <i>Communications and Control Engineering</i> , 2020, , 151-206.	1.0	0
30	Stochastic Optimal Control with Perfect State Information over a Finite Horizon. <i>Communications and Control Engineering</i> , 2020, , 299-382.	1.0	0
31	Optimal Control Problems over an Infinite Horizon. <i>Communications and Control Engineering</i> , 2020, , 471-511.	1.0	1
32	From Functional Optimization to Nonlinear Programming by the Extended Ritz Method. <i>Communications and Control Engineering</i> , 2020, , 39-88.	1.0	0
33	Deterministic Optimal Control over a Finite Horizon. <i>Communications and Control Engineering</i> , 2020, , 255-298.	1.0	0
34	Some Families of FSP Functions and Their Properties. <i>Communications and Control Engineering</i> , 2020, , 89-150.	1.0	0
35	Team Optimal Control Problems. <i>Communications and Control Engineering</i> , 2020, , 427-469.	1.0	0
36	Stochastic Optimal Control with Imperfect State Information over a Finite Horizon. <i>Communications and Control Engineering</i> , 2020, , 383-426.	1.0	0

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37	Uniform and Lipschitz continuity of objective functions in metamaterial band gap optimization problems. AIP Conference Proceedings, 2020, , .	0.3	1
38	Machine Learning Application to Family Business Status Classification. Lecture Notes in Computer Science, 2020, , 25-36.	1.0	2
39	Frequency band structure of hierarchical viscoelastic metamaterials. AIP Conference Proceedings, 2020, , .	0.3	0
40	A Computational Method to Automatically Detect the Perceived Origin of Full-Body Human Movement and its Propagation. , 2020, , .		3
41	Complex frequency band structure of periodic thermo-diffusive materials by Floquet-Bloch theory. Acta Mechanica, 2019, 230, 3339-3363.	1.1	16
42	Identification of Roughness with Optimal Contact Response with respect to Real Contact Area and Normal Stiffness. Mathematical Problems in Engineering, 2019, 2019, 1-11.	0.6	6
43	Some properties of transportation network cooperative games. Networks, 2019, 74, 161-173.	1.6	7
44	Optimal Design of the Band Structure for Beam Lattice Metamaterials. Frontiers in Materials, 2019, 6, .	1.2	30
45	Intragenerational redistribution in a funded pension system. Journal of Pension Economics and Finance, 2019, 18, 271-303.	0.6	4
46	A Comparison of Game-Theoretic Models for Parallel Trade. International Game Theory Review, 2018, 20, 1850003.	0.3	3
47	Multi-class parkinsonian disorders classification with quantitative MR markers and graph-based features using support vector machines. Parkinsonism and Related Disorders, 2018, 47, 64-70.	1.1	16
48	A green policy to schedule tasks in a distributed cloud. Optimization Letters, 2018, 12, 1535-1551.	0.9	5
49	Commitment-Based Equilibrium Environmental Strategies Under Time-Dependent Absorption Efficiency. Group Decision and Negotiation, 2018, 27, 235-249.	2.0	7
50	Estimating Heterogeneous Causal Effects in the Presence of Irregular Assignment Mechanisms. , 2018, , .		8
51	An Algorithm for Curve Identification in the Presence of Curve Intersections. Mathematical Problems in Engineering, 2018, 2018, 1-7.	0.6	2
52	Multi-field asymptotic homogenization approach for Bloch wave propagation in periodic thermodiffusive elastic materials. Journal of Physics: Conference Series, 2018, 1092, 012006.	0.3	0
53	Metamaterial filter design via surrogate optimization. Journal of Physics: Conference Series, 2018, 1092, 012043.	0.3	5
54	Symmetric and antisymmetric properties of solutions to kernel-based machine learning problems. Neurocomputing, 2018, 306, 141-159.	3.5	4

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55	Strong Convexity and Smoothness of Solutions to Geometric Optics Problems via Dynamic Programming. , 2018, 2, 549-554.		0
56	Neural approximations in discounted infinite-horizon stochastic optimal control problems. Engineering Applications of Artificial Intelligence, 2018, 74, 294-302.	4.3	3
57	A SOM-based Chanâ€“Vese model for unsupervised image segmentation. Soft Computing, 2017, 21, 2047-2067.	2.1	18
58	Supervised and semi-supervised classifiers for the detection of flood-prone areas. Soft Computing, 2017, 21, 3673-3685.	2.1	16
59	LQG Online Learning. Neural Computation, 2017, 29, 2203-2291.	1.3	5
60	Symmetry and antisymmetry properties of optimal solutions to regression problems. Optimization Letters, 2017, 11, 1427-1442.	0.9	4
61	An approach to transportation network analysis via transferable utility games. Transportation Research Part B: Methodological, 2017, 105, 120-143.	2.8	25
62	A theoretical analysis of buffer occupancy for Intermittently-Connected Networks. Performance Evaluation, 2017, 115, 108-131.	0.9	9
63	Graph-restricted game approach for investigating human movement qualities. , 2017, , .		2
64	Optimal design of low-frequency band gaps in anti-tetrachiral lattice meta-materials. Composites Part B: Engineering, 2017, 115, 341-359.	5.9	65
65	Optimal distributed task scheduling in volunteer clouds. Computers and Operations Research, 2017, 81, 231-246.	2.4	27
66	Design of Acoustic Metamaterials Through Nonlinear Programming. Lecture Notes in Computer Science, 2016, , 170-181.	1.0	9
67	A hierarchical consensus method for the approximation of the consensus state, based on clustering and spectral graph theory. Engineering Applications of Artificial Intelligence, 2016, 56, 157-174.	4.3	4
68	Optimal design of auxetic hexachiral metamaterials with local resonators. Smart Materials and Structures, 2016, 25, 054009.	1.8	55
69	On the Curse of Dimensionality in the Ritz Method. Journal of Optimization Theory and Applications, 2016, 168, 488-509.	0.8	4
70	Automatic Classification of Leading Interactions in a String Quartet. ACM Transactions on Interactive Intelligent Systems, 2016, 6, 1-27.	2.6	6
71	On the Relationship between Variational Level Set-Based and SOM-Based Active Contours. Computational Intelligence and Neuroscience, 2015, 2015, 1-19.	1.1	10
72	Robust localâ€“global SOMâ€“based ACM. Electronics Letters, 2015, 51, 142-143.	0.5	13

#	ARTICLE	IF	CITATIONS
73	Online learning as an LQG optimal control problem with random matrices. , 2015, , .		1
74	Binary and Multi-class Parkinsonian Disorders Classification Using Support Vector Machines. Lecture Notes in Computer Science, 2015, , 379-386.	1.0	2
75	Sparse Solutions to the Average Consensus Problem via Various Regularizations of the Fastest Mixing Markov-Chain Problem. IEEE Transactions on Network Science and Engineering, 2015, 2, 97-111.	4.1	8
76	Foundations of Support Constraint Machines. Neural Computation, 2015, 27, 388-480.	1.3	35
77	Learning With Mixed Hard/Soft Pointwise Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2019-2032.	7.2	12
78	An efficient Self-Organizing Active Contour model for image segmentation. Neurocomputing, 2015, 149, 820-835.	3.5	47
79	Expressive non-verbal interaction in a string quartet: an analysis through head movements. Journal on Multimodal User Interfaces, 2015, 9, 55-68.	2.0	22
80	Narrowing the Search for Optimal Call-Admission Policies Via a Nonlinear Stochastic Knapsack Model. Journal of Optimization Theory and Applications, 2015, 164, 819-841.	0.8	1
81	Learning as Constraint Reactions. Springer Series in Bio-/neuroinformatics, 2015, , 245-270.	0.1	1
82	Sparse solutions to the average consensus problem via $l_1$ -norm regularization of the fastest mixing Markov-chain problem. , 2014, , .		6
83	A theoretical framework for supervised learning from regions. Neurocomputing, 2014, 129, 25-32.	3.5	13
84	Approximation and Estimation Bounds for Subsets of Reproducing Kernel KreÇn Spaces. Neural Processing Letters, 2014, 39, 137-153.	2.0	4
85	Approximate dynamic programming for stochastic N-stage optimization with application to optimal consumption under uncertainty. Computational Optimization and Applications, 2014, 58, 31-85.	0.9	24
86	Evaluation of the Average Packet Delivery Delay in Highly-Disrupted Networks: The DTN and IP-like Protocol Cases. IEEE Communications Letters, 2014, 18, 519-522.	2.5	8
87	Exploiting the Shapley Value in the Estimation of the Position of a Point of Interest for a Group of Individuals. Procedia, Social and Behavioral Sciences, 2014, 108, 249-259.	0.5	2
88	A Survey of SOM-Based Active Contour Models for Image Segmentation. Advances in Intelligent Systems and Computing, 2014, , 293-302.	0.5	8
89	On the detection of the level of attention in an orchestra through head movements. International Journal of Arts and Technology, 2014, 7, 316.	0.1	3
90	Suboptimal Policies for Stochastic $N$ -Stage Optimization: Accuracy Analysis and a Case Study from Optimal Consumption. Profiles in Operations Research, 2014, , 27-50.	0.3	2

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91	A Concurrent SOM-Based Chan-Vese Model for Image Segmentation. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 199-208.	0.5	11
92	Dynamic Programming and Value-Function Approximation in Sequential Decision Problems: Error Analysis and Numerical Results. <i>Journal of Optimization Theory and Applications</i> , 2013, 156, 380-416.	0.8	32
93	Optimality Conditions for Coordinate-Convex Policies in CAC With Nonlinear Feasibility Boundaries. <i>IEEE/ACM Transactions on Networking</i> , 2013, 21, 1363-1377.	2.6	4
94	Learning with Boundary Conditions. <i>Neural Computation</i> , 2013, 25, 1029-1106.	1.3	30
95	FLOOD HAZARD ASSESSMENT VIA THRESHOLD BINARY CLASSIFIERS: CASE STUDY OF THE TANARO RIVER BASIN. <i>Irrigation and Drainage</i> , 2013, 62, 1-10.	0.8	17
96	Expressive Non-verbal Interaction in String Quartet. , 2013, , .		6
97	Editorial A Successful Change From TNN to TNNLS and a Very Successful Year. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013, 24, 1-7.	7.2	13
98	Towards Automated Analysis of Joint Music Performance in the Orchestra. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2013, , 120-127.	0.2	6
99	Learning with Hard Constraints. <i>Lecture Notes in Computer Science</i> , 2013, , 146-153.	1.0	2
100	A Comparison between Fixed-Basis and Variable-Basis Schemes for Function Approximation and Functional Optimization. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-17.	0.4	13
101	Approximation structures with moderate complexity in functional optimization and dynamic programming. , 2012, , .		0
102	A Model of Buffer Occupancy for ICNs. <i>IEEE Communications Letters</i> , 2012, 16, 862-865.	2.5	15
103	Suboptimal Solutions to Team Optimization Problems with Stochastic Information Structure. <i>SIAM Journal on Optimization</i> , 2012, 22, 212-243.	1.2	26
104	An application to two-hop forwarding of a model of buffer occupancy in ICNs. , 2012, , .		1
105	Classifiers for the detection of flood-prone areas using remote sensed elevation data. <i>Journal of Hydrology</i> , 2012, 470-471, 302-315.	2.3	98
106	New insights into Witsenhausen's counterexample. <i>Optimization Letters</i> , 2012, 6, 1425-1446.	0.9	10
107	Accuracy of approximations of solutions to Fredholm equations by kernel methods. <i>Applied Mathematics and Computation</i> , 2012, 218, 7481-7497.	1.4	7
108	Structural properties of optimal coordinate-convex policies for CAC with nonlinearly-constrained feasibility regions. , 2011, , .		2

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109	CAC with Nonlinearly-Constrained Feasibility Regions. IEEE Communications Letters, 2011, 15, 467-469.	2.5	4
110	Can dictionary-based computational models outperform the best linear ones?. Neural Networks, 2011, 24, 881-887.	3.3	13
111	On a Variational Norm Tailored to Variable-Basis Approximation Schemes. IEEE Transactions on Information Theory, 2011, 57, 549-558.	1.5	26
112	Functional optimization by variable-basis approximation schemes. 4or, 2011, 9, 103-106.	1.0	0
113	Team optimization problems with Lipschitz continuous strategies. Optimization Letters, 2011, 5, 333-346.	0.9	4
114	Some comparisons of complexity in dictionary-based and linear computational models. Neural Networks, 2011, 24, 171-182.	3.3	21
115	Error bounds for suboptimal solutions to kernel principal component analysis. Optimization Letters, 2010, 4, 197-210.	0.9	8
116	Estimates of Variation with Respect to a Set and Applications to Optimization Problems. Journal of Optimization Theory and Applications, 2010, 145, 53-75.	0.8	9
117	Suboptimal Solutions to Dynamic Optimization Problems via Approximations of the Policy Functions. Journal of Optimization Theory and Applications, 2010, 146, 764-794.	0.8	24
118	Minimizing Sequences for a Family of Functional Optimal Estimation Problems. Journal of Optimization Theory and Applications, 2010, 147, 243-262.	0.8	3
119	On spectral windows in supervised learning from data. Information Processing Letters, 2010, 110, 1031-1036.	0.4	2
120	Regularization Techniques and Suboptimal Solutions to Optimization Problems in Learning from Data. Neural Computation, 2010, 22, 793-829.	1.3	34
121	Smooth Optimal Decision Strategies for Static Team Optimization Problems and Their Approximations. Lecture Notes in Computer Science, 2010, , 440-451.	1.0	4
122	Some Comparisons of Model Complexity in Linear and Neural-Network Approximation. Lecture Notes in Computer Science, 2010, , 358-367.	1.0	0
123	The weight-decay technique in learning from data: an optimization point of view. Computational Management Science, 2009, 6, 53-79.	0.8	33
124	Accuracy of suboptimal solutions to kernel principal component analysis. Computational Optimization and Applications, 2009, 42, 265-287.	0.9	20
125	Regularization and Suboptimal Solutions in Learning from Data. Studies in Computational Intelligence, 2009, , 113-154.	0.7	2
126	Estimates of the Approximation Error Using Rademacher Complexity: Learning Vector-Valued Functions. Journal of Inequalities and Applications, 2008, 2008, 640758.	0.5	6



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127	Value and Policy Function Approximations in Infinite-Horizon Optimization Problems. Journal of Dynamical Systems and Geometric Theories, 2008, 6, 123-147.	0.1	3