

Pablo A Moscato

List of Publications by Year in descending order

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148
papers

4,988
citations

117619

34
h-index

110368

64
g-index

158
all docs

158
docs citations

158
times ranked

8250
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-wide association study identifies new multiple sclerosis susceptibility loci on chromosomes 12 and 20. <i>Nature Genetics</i> , 2009, 41, 824-828.	21.4	501
2	Genome-wide analysis of long noncoding RNA stability. <i>Genome Research</i> , 2012, 22, 885-898.	5.5	471
3	Genome-wide meta-analysis identifies novel multiple sclerosis susceptibility loci. <i>Annals of Neurology</i> , 2011, 70, 897-912.	5.3	314
4	A Gentle Introduction to Memetic Algorithms. , 2003, , 105-144.		246
5	Common variants at 6p21.1 are associated with large artery atherosclerotic stroke. <i>Nature Genetics</i> , 2012, 44, 1147-1151.	21.4	152
6	A memetic algorithm for the total tardiness single machine scheduling problem. <i>European Journal of Operational Research</i> , 2001, 132, 224-242.	5.7	144
7	Blood metabolite markers of preclinical Alzheimer's disease in two longitudinally followed cohorts of older individuals. <i>Alzheimer's and Dementia</i> , 2016, 12, 815-822.	0.8	138
8	The multiple sclerosis whole blood mRNA transcriptome and genetic associations indicate dysregulation of specific T cell pathways in pathogenesis. <i>Human Molecular Genetics</i> , 2010, 19, 2134-2143.	2.9	128
9	Uncovering Molecular Biomarkers That Correlate Cognitive Decline with the Changes of Hippocampus' Gene Expression Profiles in Alzheimer's Disease. <i>PLoS ONE</i> , 2010, 5, e10153.	2.5	121
10	Evolutionary algorithms for scheduling a flowshop manufacturing cell with sequence dependent family setups. <i>Computers and Industrial Engineering</i> , 2005, 48, 491-506.	6.3	106
11	A New Memetic Algorithm for the Asymmetric Traveling Salesman Problem. <i>Journal of Heuristics</i> , 2004, 10, 483-506.	1.4	102
12	Identification of a 5-Protein Biomarker Molecular Signature for Predicting Alzheimer's Disease. <i>PLoS ONE</i> , 2008, 3, e3111.	2.5	92
13	Identification of Differentially Expressed Genes through Integrated Study of Alzheimer's Disease Affected Brain Regions. <i>PLoS ONE</i> , 2016, 11, e0152342.	2.5	79
14	Basal-like breast cancer: molecular profiles, clinical features and survival outcomes. <i>BMC Medical Genomics</i> , 2017, 10, 19.	1.5	79
15	Stochastic versus deterministic update in simulated annealing. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 146, 204-208.	2.1	78
16	Multivariate Protein Signatures of Pre-Clinical Alzheimer's Disease in the Alzheimer's Disease Neuroimaging Initiative (ADNI) Plasma Proteome Dataset. <i>PLoS ONE</i> , 2012, 7, e34341.	2.5	73
17	Is there more than one proctitis syndrome? A revisitaton using data from the TROC 96.01 trial. <i>Radiotherapy and Oncology</i> , 2009, 90, 400-407.	0.6	70
18	Memetic Algorithms. <i>Studies in Fuzziness and Soft Computing</i> , 2004, , 53-85.	0.8	69

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19	Benchmarking a memetic algorithm for ordering microarray data. <i>BioSystems</i> , 2007, 88, 56-75.	2.0	69
20	A Modern Introduction to Memetic Algorithms. <i>Profiles in Operations Research</i> , 2010, , 141-183.	0.4	61
21	An introduction to population approaches for optimization and hierarchical objective functions: A discussion on the role of tabu search. <i>Annals of Operations Research</i> , 1993, 41, 85-121.	4.1	60
22	Shakespeare and other English Renaissance authors as characterized by Information Theory complexity quantifiers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 916-926.	2.6	55
23	A Polymorphism in the HLA-DPB1 Gene Is Associated with Susceptibility to Multiple Sclerosis. <i>PLoS ONE</i> , 2010, 5, e13454.	2.5	55
24	“Neuroinflammation”™ differs categorically from inflammation: transcriptomes of Alzheimer's disease, Parkinson's disease, schizophrenia and inflammatory diseases compared. <i>Neurogenetics</i> , 2014, 15, 201-212.	1.4	55
25	Heterogeneous Ensemble Combination Search Using Genetic Algorithm for Class Imbalanced Data Classification. <i>PLoS ONE</i> , 2016, 11, e0146116.	2.5	55
26	GPU-FS-kNN: A Software Tool for Fast and Scalable kNN Computation Using GPUs. <i>PLoS ONE</i> , 2012, 7, e44000.	2.5	54
27	A rare P2X7 variant Arg307Gln with absent pore formation function protects against neuroinflammation in multiple sclerosis. <i>Human Molecular Genetics</i> , 2015, 24, 5644-5654.	2.9	53
28	A Transcription Factor Map as Revealed by a Genome-Wide Gene Expression Analysis of Whole-Blood mRNA Transcriptome in Multiple Sclerosis. <i>PLoS ONE</i> , 2010, 5, e14176.	2.5	51
29	Comparing meta-heuristic approaches for parallel machine scheduling problems. <i>Production Planning and Control</i> , 2002, 13, 143-154.	8.8	47
30	Cancer Biomarker Discovery: The Entropic Hallmark. <i>PLoS ONE</i> , 2010, 5, e12262.	2.5	46
31	Multiple Sclerosis Susceptibility-Associated SNPs Do Not Influence Disease Severity Measures in a Cohort of Australian MS Patients. <i>PLoS ONE</i> , 2010, 5, e10003.	2.5	45
32	Polymorphisms in the Receptor Tyrosine Kinase MERTK Gene Are Associated with Multiple Sclerosis Susceptibility. <i>PLoS ONE</i> , 2011, 6, e16964.	2.5	42
33	The CYP27B1 variant associated with an increased risk of autoimmune disease is underexpressed in tolerizing dendritic cells. <i>Human Molecular Genetics</i> , 2014, 23, 1425-1434.	2.9	40
34	An integer programming model for protein structure prediction using the 3D-HP side chain model. <i>Discrete Applied Mathematics</i> , 2016, 198, 206-214.	0.9	40
35	The euclidean traveling salesman problem and a space-filling curve. <i>Chaos, Solitons and Fractals</i> , 1995, 6, 389-397.	5.1	39
36	Deep neural networks understand investors better. <i>Decision Support Systems</i> , 2018, 112, 23-34.	5.9	36

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37	The MS Risk Allele of CD40 Is Associated with Reduced Cell-Membrane Bound Expression in Antigen Presenting Cells: Implications for Gene Function. PLoS ONE, 2015, 10, e0127080.	2.5	34
38	Differences in Abundances of Cell-Signalling Proteins in Blood Reveal Novel Biomarkers for Early Detection Of Clinical Alzheimer's Disease. PLoS ONE, 2011, 6, e17481.	2.5	30
39	The k-Feature Set problem is W[2]-complete. Journal of Computer and System Sciences, 2003, 67, 686-690.	1.2	29
40	Differential kynurenine pathway metabolism in highly metastatic aggressive breast cancer subtypes: beyond IDO1-induced immunosuppression. Breast Cancer Research, 2020, 22, 113.	5.0	29
41	Inferring Phylogenetic Trees Using Evolutionary Algorithms. Lecture Notes in Computer Science, 2002, , 720-729.	1.3	28
42	Evolving Robust Gene Regulatory Networks. PLoS ONE, 2015, 10, e0116258.	2.5	28
43	The Discovery of Novel Biomarkers Improves Breast Cancer Intrinsic Subtype Prediction and Reconciles the Labels in the METABRIC Data Set. PLoS ONE, 2015, 10, e0129711.	2.5	27
44	Impact of androgen suppression and zoledronic acid on bone mineral density and fractures in the Trans-Tasman Radiation Oncology Group (<scp>TROG</scp>) 03.04 Randomised Androgen Deprivation and Radiotherapy (<scp>RADAR</scp>) randomized controlled trial for locally advanced prostate cancer. BJU International, 2014, 114, 344-353.	2.5	26
45	Unveiling Clusters of RNA Transcript Pairs Associated with Markers of Alzheimer's Disease Progression. PLoS ONE, 2012, 7, e45535.	2.5	26
46	Are Myocardial Infarction-Associated Single-Nucleotide Polymorphisms Associated With Ischemic Stroke?. Stroke, 2012, 43, 980-986.	2.0	25
47	A Data-Driven Approach to Reverse Engineering Customer Engagement Models: Towards Functional Constructs. PLoS ONE, 2014, 9, e102768.	2.5	24
48	A memetic-aided approach to hierarchical clustering from distance matrices: application to gene expression clustering and phylogeny. BioSystems, 2003, 72, 75-97.	2.0	23
49	Combinatorial Optimization Models for Finding Genetic Signatures from Gene Expression Datasets. Methods in Molecular Biology, 2008, 453, 363-377.	0.9	23
50	QAPgrid: A Two Level QAP-Based Approach for Large-Scale Data Analysis and Visualization. PLoS ONE, 2011, 6, e14468.	2.5	22
51	Distinguishing childhood absence epilepsy patients from controls by the analysis of their background brain electrical activity (II): A combinatorial optimization approach for electrode selection. Journal of Neuroscience Methods, 2009, 181, 257-267.	2.5	21
52	A mixed evolutionary-statistical analysis of an algorithm's complexity. Applied Mathematics Letters, 2003, 16, 41-47.	2.7	20
53	Resequencing and fine-mapping of the chromosome 12q13-14 locus associated with multiple sclerosis refines the number of implicated genes. Human Molecular Genetics, 2013, 22, 2283-2292.	2.9	20
54	Microarrays-Identifying Molecular Portraits for Prostate Tumors with Different Gleason Patterns. Methods in Molecular Medicine, 2008, 141, 131-151.	0.8	18

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55	A Kernelisation Approach for Multiple d-Hitting Set and Its Application in Optimal Multi-Drug Therapeutic Combinations. PLoS ONE, 2010, 5, e13055.	2.5	18
56	An Information Theoretic Clustering Approach for Unveiling Authorship Affinities in Shakespearean Era Plays and Poems. PLoS ONE, 2014, 9, e111445.	2.5	18
57	Genetic Signatures for a Rodent Model of Parkinson's Disease Using Combinatorial Optimization Methods. Methods in Molecular Biology, 2008, 453, 379-392.	0.9	17
58	Optimising weights for heterogeneous ensemble of classifiers with differential evolution. , 2016, , .		16
59	Iteratively refining breast cancer intrinsic subtypes in the METABRIC dataset. BioData Mining, 2016, 9, 2.	4.0	16
60	Applying Memetic Algorithms to the Analysis of Microarray Data. Lecture Notes in Computer Science, 2003, , 22-32.	1.3	16
61	An automatic graph layout procedure to visualize correlated data. , 2006, , 179-188.		16
62	Extensive Transcriptomic and Genomic Analysis Provides New Insights about Luminal Breast Cancers. PLoS ONE, 2016, 11, e0158259.	2.5	16
63	Disclosed: An efficient depth-first, top-down algorithm for mining disjunctive closed itemsets in high-dimensional data. Information Sciences, 2014, 280, 171-187.	6.9	15
64	An Accelerated Introduction to Memetic Algorithms. Profiles in Operations Research, 2019, , 275-309.	0.4	15
65	An Integrated QAP-Based Approach to Visualize Patterns of Gene Expression Similarity. , 2007, , 156-167.		15
66	Hierarchical Clustering Using the Arithmetic-Harmonic Cut: Complexity and Experiments. PLoS ONE, 2010, 5, e14067.	2.5	15
67	Clustering Consumers Based on Trust, Confidence and Giving Behaviour: Data-Driven Model Building for Charitable Involvement in the Australian Not-For-Profit Sector. PLoS ONE, 2015, 10, e0122133.	2.5	15
68	Brain transcriptome perturbations in the Hfe ^{-/-} mouse model of genetic iron loading. Brain Research, 2012, 1448, 144-152.	2.2	14
69	Language Individuation and Marker Words: Shakespeare and His Maxwell's Demon. PLoS ONE, 2013, 8, e66813.	2.5	14
70	M-Link: a link clustering memetic algorithm for overlapping community detection. Memetic Computing, 2020, 12, 87-99.	4.0	13
71	Anomaly Detection via Mining Numerical Workflow Relations from Logs. , 2020, , .		13
72	Evaluation of Different Normalization and Analysis Procedures for Illumina Gene Expression Microarray Data Involving Small Changes. Microarrays (Basel, Switzerland), 2013, 2, 131-152.	1.4	12

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73	A New Combinatorial Optimization Approach for Integrated Feature Selection Using Different Datasets: A Prostate Cancer Transcriptomic Study. PLoS ONE, 2015, 10, e0127702.	2.5	12
74	Genes Related with Alzheimer's Disease: A Comparison of Evolutionary Search, Statistical and Integer Programming Approaches. Lecture Notes in Computer Science, 2005, , 84-94.	1.3	12
75	Clustering Nodes in Large-Scale Biological Networks Using External Memory Algorithms. Lecture Notes in Computer Science, 2011, , 375-386.	1.3	12
76	Distinguishing childhood absence epilepsy patients from controls by the analysis of their background brain electrical activity. Journal of Neuroscience Methods, 2009, 177, 461-468.	2.5	11
77	Changes in Brain Transcripts Related to Alzheimer's Disease in a Model of HFE Hemochromatosis are not Consistent with Increased Alzheimer's Disease Risk. Journal of Alzheimer's Disease, 2012, 30, 791-803.	2.6	11
78	kNN-MST-Agglomerative: A fast and scalable graph-based data clustering approach on GPU. , 2012, , .		11
79	Memetic Algorithms for Business Analytics and Data Science: A Brief Survey. , 2019, , 545-608.		11
80	On the Performance of Heuristics on Finite and Infinite Fractal Instances of the Euclidean Traveling Salesman Problem. INFORMS Journal on Computing, 1998, 10, 121-132.	1.7	10
81	PasMoQAP: A parallel asynchronous memetic algorithm for solving the Multi-Objective Quadratic Assignment Problem. , 2017, , .		10
82	Automatic Discovery and Cleansing of Numerical Metamorphic Relations. , 2019, , .		10
83	Enhancing the Performance of Memetic Algorithms by Using a Matching-Based Recombination Algorithm. Applied Optimization, 2003, , 65-90.	0.4	10
84	Memetic Algorithms. , 2018, , 607-638.		9
85	kNN-BorÅvka-GPU: A Fast and Scalable MST Construction from kNN Graphs on GPU. Lecture Notes in Computer Science, 2012, , 71-86.	1.3	9
86	A Novel Clustering Methodology Based on Modularity Optimisation for Detecting Authorship Affinities in Shakespearean Era Plays. PLoS ONE, 2016, 11, e0157988.	2.5	9
87	Evolving L-Systems as an Intelligent Design Approach to Find Classes of Difficult-to-Solve Traveling Salesman Problem Instances. Lecture Notes in Computer Science, 2011, , 1-11.	1.3	8
88	Memetic Algorithms: The Untold Story. Studies in Computational Intelligence, 2012, , 275-309.	0.9	8
89	Identifying Communities of Trust and Confidence in the Charity and Not-for-Profit Sector: A Memetic Algorithm Approach. , 2014, , .		8
90	A new method for mining disjunctive emerging patterns in high-dimensional datasets using hypergraphs. Information Systems, 2014, 40, 1-10.	3.6	8

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91	Efficient data partitioning for the GPU computation of moment functions. Journal of Parallel and Distributed Computing, 2014, 74, 1994-2004.	4.1	8
92	A memetic algorithm for the quadratic assignment problem with parallel local search. , 2015, , .		8
93	Sifting the wheat from the chaff: prioritizing GWAS results by identifying consistency across analytical methods. Genetic Epidemiology, 2011, 35, 745-754.	1.3	7
94	Mining disjunctive minimal generators with TitanicOR. Expert Systems With Applications, 2012, 39, 8228-8238.	7.6	7
95	An adaptive memetic algorithm for feature selection using proximity graphs. Computational Intelligence, 2019, 35, 156-183.	3.2	7
96	Genetic biomarkers for brain hemisphere differentiation in Parkinson's Disease. AIP Conference Proceedings, 2007, , .	0.4	6
97	The Gene Interaction Miner: a new tool for data mining contextual information for protein-protein interaction analysis. Bioinformatics, 2010, 26, 283-284.	4.1	6
98	A fast meta-heuristic approach for the (α, η) -k $(\hat{1}, \hat{2})$ - k -feature set problem. Journal of Heuristics, 2016, 22, 199-220.	1.4	6
99	Analytic Continued Fractions for Regression: A Memetic Algorithm Approach. Expert Systems With Applications, 2021, 179, 115018.	7.6	6
100	Editorial: Memetic Computing: Accelerating optimization heuristics with problem-dependent local search methods. Swarm and Evolutionary Computation, 2022, 70, 101047.	8.1	6
101	A proposal for direct-ordering gene expression data by self-organising maps. Applied Soft Computing Journal, 2004, 5, 11-21.	7.2	5
102	Memetic Algorithms in Bioinformatics. Studies in Computational Intelligence, 2012, , 261-271.	0.9	5
103	Computing large-scale distance matrices on GPU. , 2012, , .		5
104	Gauging Heterogeneity in Online Consumer Behaviour Data: A Proximity Graph Approach. , 2014, , .		5
105	Separating sets of strings by finding matching patterns is almost always hard. Theoretical Computer Science, 2017, 665, 73-86.	0.9	5
106	Symbolic Regression Modeling of Drug Responses. , 2018, , .		5
107	Scheduling and Production & Control: MA. Studies in Fuzziness and Soft Computing, 2004, , 655-680.	0.8	5
108	Beyond Statistics: A New Combinatorial Approach to Identifying Biomarker Panels for the Early Detection and Diagnosis of Alzheimer's Disease. Journal of Alzheimer's Disease, 2014, 39, 211-217.	2.6	4

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109	From Ensemble Learning to Meta-Analytics: A Review on Trends in Business Applications. , 2019, , 703-731.		4
110	Novel Biomarkers for Prostate Cancer Revealed by (\hat{I}_\pm, \hat{I}^2) -k-Feature Sets. Studies in Computational Intelligence, 2009, , 149-175.	0.9	4
111	Engagement in Motion: Exploring Short Term Dynamics in Page-Level Social Media Metrics. , 2014, , .		3
112	Identification of Genome-Wide SNP \times SNP and SNP \times Clinical Boolean Interactions in Age-Related Macular Degeneration. Methods in Molecular Biology, 2015, 1253, 217-255.	0.9	3
113	Alzheimer \hat{e} TM's disease patient groups derived from a multivariate analysis of cognitive test outcomes in the Coalition Against Major Diseases dataset. Future Science OA, 2016, 2, FSO140.	1.9	3
114	A multi-objective approach for the (\hat{I}_\pm, \hat{I}^2) - k -feature set problem using memetic algorithms. , 2017, , .		3
115	Where Does My Brand End? An Overlapping Community Approach. Proceedings in Adaptation, Learning and Optimization, 2017, , 133-148.	1.6	3
116	Using Network Alignment to Identify Conserved Consumer Behaviour Modelling Constructs. , 2019, , 513-541.		3
117	Memetic Algorithms. , 2016, , 1-32.		3
118	Multiple regression techniques for modelling dates of first performances of Shakespeare-era plays. Expert Systems With Applications, 2022, 200, 116903.	7.6	3
119	Legendre moments as high performance bone biomarkers: computational methods and GPU acceleration. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2016, 4, 146-163.	1.9	2
120	The Cohesion-Based Communities of Symptoms of the Largest Component of the DSM-IV Network. Journal of Interconnection Networks, 2019, 19, 1940002.	1.0	2
121	Datasets for Business and Consumer Analytics. , 2019, , 965-987.		2
122	Business Network Analytics: From Graphs to Supernetworks. , 2019, , 307-400.		2
123	Marketing Meets Data Science: Bridging the Gap. , 2019, , 3-117.		2
124	A Multi-objective Meta-Analytic Method for Customer Churn Prediction. , 2019, , 781-813.		2
125	Evolutionary Hyperparameter Optimisation for Sentence Classification. , 2021, , .		2
126	Relative Neighborhood Graphs Uncover the Dynamics of Social Media Engagement. Lecture Notes in Computer Science, 2016, , 283-297.	1.3	2

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127	An effective mutation-based measure for evaluating the suitability of parental sequences to undergo DNA shuffling experiments. , 2008, , .		1
128	Computer-Aided Breast Cancer Diagnosis with Optimal Feature Sets: Reduction Rules and Optimization Techniques. Methods in Molecular Biology, 2017, 1526, 299-325.	0.9	1
129	A Computational Approach for Designing Combination Therapy in Combating Glioblastoma. , 2019, , .		1
130	A memetic algorithm approach to network alignment. , 2019, , .		1
131	Consumer Behaviour and Marketing Fundamentals for Business Data Analytics. , 2019, , 119-162.		1
132	Overlapping Communities in Co-purchasing and Social Interaction Graphs: A Memetic Approach. , 2019, , 435-466.		1
133	Designing optimal combination therapy for personalised glioma treatment. Memetic Computing, 2020, 12, 317-329.	4.0	1
134	VLSI design: gate matrix layout problem. Studies in Fuzziness and Soft Computing, 2004, , 455-478.	0.8	1
135	The MST-kNN with Paracliques. Lecture Notes in Computer Science, 2015, , 373-386.	1.3	1
136	A new greedy heuristic for 3DHP protein structure prediction with side chain. , 2012, , .		0
137	Big data for big questions: it is time for data analysts to act. Future Science OA, 2015, 1, FSO21.	1.9	0
138	Using the QAPgrid Visualization Approach for Biomarker Identification of Cell-Specific Transcriptomic Signatures. Methods in Molecular Biology, 2017, 1526, 271-297.	0.9	0
139	World's Best Universities and Personalized Rankings. , 2018, , 1335-1371.		0
140	mQAPViz. , 2018, , .		0
141	Accelerating a multi-objective memetic algorithm for feature selection using hierarchical k-means indexes. , 2018, , .		0
142	Visualizing Products and Consumers: A Gestalt Theory Inspired Method. , 2019, , 661-689.		0
143	Introducing Clustering with a Focus in Marketing and Consumer Analysis. , 2019, , 165-212.		0
144	Clustering Consumers and Cluster-Specific Behavioural Models. , 2019, , 235-267.		0

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145	Augmented intuition: a bridge between theory and practice. Journal of Heuristics, 2021, 27, 497-547.	1.4	0
146	World's Best Universities and Personalized Rankings. , 2016, , 1-37.		0
147	GPU Acceleration of an Entropy-Based Model to Quantify Epistatic Interactions Between SNPs. Current Bioinformatics, 2016, 11, 396-407.	1.5	0
148	World's Best Universities and Personalized Rankings. , 2017, , 1-37.		0