

# Pablo A Moscato

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

146  
papers

3,967  
citations

33  
h-index

60  
g-index

158  
ext. papers

4,478  
ext. citations

3.9  
avg, IF

5.65  
L-index

#	Paper	IF	Citations
146	Genome-wide association study identifies new multiple sclerosis susceptibility loci on chromosomes 12 and 20. <i>Nature Genetics</i> , <b>2009</b> , 41, 824-8	36.3	432
145	Genome-wide analysis of long noncoding RNA stability. <i>Genome Research</i> , <b>2012</b> , 22, 885-98	9.7	373
144	Genome-wide meta-analysis identifies novel multiple sclerosis susceptibility loci. <i>Annals of Neurology</i> , <b>2011</b> , 70, 897-912	9.4	263
143	A Gentle Introduction to Memetic Algorithms <b>2003</b> , 105-144		189
142	A memetic algorithm for the total tardiness single machine scheduling problem. <i>European Journal of Operational Research</i> , <b>2001</b> , 132, 224-242	5.6	130
141	Common variants at 6p21.1 are associated with large artery atherosclerotic stroke. <i>Nature Genetics</i> , <b>2012</b> , 44, 1147-51	36.3	126
140	The multiple sclerosis whole blood mRNA transcriptome and genetic associations indicate dysregulation of specific T cell pathways in pathogenesis. <i>Human Molecular Genetics</i> , <b>2010</b> , 19, 2134-43	5.6	103
139	Uncovering molecular biomarkers that correlate cognitive decline with the changes of hippocampus' gene expression profiles in Alzheimer's disease. <i>PLoS ONE</i> , <b>2010</b> , 5, e10153	3.7	100
138	Evolutionary algorithms for scheduling a flowshop manufacturing cell with sequence dependent family setups. <i>Computers and Industrial Engineering</i> , <b>2005</b> , 48, 491-506	6.4	94
137	Blood metabolite markers of preclinical Alzheimer's disease in two longitudinally followed cohorts of older individuals. <i>Alzheimer's and Dementia</i> , <b>2016</b> , 12, 815-22	1.2	93
136	Identification of a 5-protein biomarker molecular signature for predicting Alzheimer's disease. <i>PLoS ONE</i> , <b>2008</b> , 3, e3111	3.7	80
135	A New Memetic Algorithm for the Asymmetric Traveling Salesman Problem. <i>Journal of Heuristics</i> , <b>2004</b> , 10, 483-506	1.9	78
134	Stochastic versus deterministic update in simulated annealing. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1990</b> , 146, 204-208	2.3	68
133	Is there more than one proctitis syndrome? A revisitaton using data from the TROG 96.01 trial. <i>Radiotherapy and Oncology</i> , <b>2009</b> , 90, 400-7	5.3	65
132	Benchmarking a memetic algorithm for ordering microarray data. <i>BioSystems</i> , <b>2007</b> , 88, 56-75	1.9	60
131	Multivariate protein signatures of pre-clinical Alzheimer's disease in the Alzheimer's disease neuroimaging initiative (ADNI) plasma proteome dataset. <i>PLoS ONE</i> , <b>2012</b> , 7, e34341	3.7	58
130	Memetic Algorithms. <i>Studies in Fuzziness and Soft Computing</i> , <b>2004</b> , 53-85	0.7	56

129	Identification of Differentially Expressed Genes through Integrated Study of Alzheimer's Disease Affected Brain Regions. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152342	3.7	49
128	'Neuroinflammation' differs categorically from inflammation: transcriptomes of Alzheimer's disease, Parkinson's disease, schizophrenia and inflammatory diseases compared. <i>Neurogenetics</i> , <b>2014</b> , 15, 201-12	3	48
127	GPU-FS-kNN: a software tool for fast and scalable kNN computation using GPUs. <i>PLoS ONE</i> , <b>2012</b> , 7, e44000	4.0	48
126	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> , <b>1993</b> , 41, 85-121	3.2	46
125	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> , <b>2010</b> , 5, e14176	3.7	44
124	A Modern Introduction to Memetic Algorithms. <i>Profiles in Operations Research</i> , <b>2010</b> , 141-183	1	44
123	A polymorphism in the HLA-DPB1 gene is associated with susceptibility to multiple sclerosis. <i>PLoS ONE</i> , <b>2010</b> , 5, e13454	3.7	43
122	Basal-like breast cancer: molecular profiles, clinical features and survival outcomes. <i>BMC Medical Genomics</i> , <b>2017</b> , 10, 19	3.7	42
121	Shakespeare and other English Renaissance authors as characterized by Information Theory complexity quantifiers. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2009</b> , 388, 916-926	3.3	42
120	A rare P2X7 variant Arg307Gln with absent pore formation function protects against neuroinflammation in multiple sclerosis. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 5644-54	5.6	40
119	Multiple sclerosis susceptibility-associated SNPs do not influence disease severity measures in a cohort of Australian MS patients. <i>PLoS ONE</i> , <b>2010</b> , 5, e10003	3.7	39
118	Cancer biomarker discovery: the entropic hallmark. <i>PLoS ONE</i> , <b>2010</b> , 5, e12262	3.7	39
117	Comparing meta-heuristic approaches for parallel machine scheduling problems. <i>Production Planning and Control</i> , <b>2002</b> , 13, 143-154	4.3	38
116	The CYP27B1 variant associated with an increased risk of autoimmune disease is underexpressed in tolerizing dendritic cells. <i>Human Molecular Genetics</i> , <b>2014</b> , 23, 1425-34	5.6	36
115	The euclidean traveling salesman problem and a space-filling curve. <i>Chaos, Solitons and Fractals</i> , <b>1995</b> , 6, 389-397	9.3	35
114	Polymorphisms in the receptor tyrosine kinase MERTK gene are associated with multiple sclerosis susceptibility. <i>PLoS ONE</i> , <b>2011</b> , 6, e16964	3.7	35
113	Heterogeneous Ensemble Combination Search Using Genetic Algorithm for Class Imbalanced Data Classification. <i>PLoS ONE</i> , <b>2016</b> , 11, e0146116	3.7	33
112	An integer programming model for protein structure prediction using the 3D-HP side chain model. <i>Discrete Applied Mathematics</i> , <b>2016</b> , 198, 206-214	1	30

111	The k-Feature Set problem is W[2]-complete. <i>Journal of Computer and System Sciences</i> , <b>2003</b> , 67, 686-690		26
110	The MS Risk Allele of CD40 Is Associated with Reduced Cell-Membrane Bound Expression in Antigen Presenting Cells: Implications for Gene Function. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127080	3.7	25
109	Evolutionary Search of Thresholds for Robust Feature Set Selection: Application to the Analysis of Microarray Data. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 21-30	0.9	24
108	The Discovery of Novel Biomarkers Improves Breast Cancer Intrinsic Subtype Prediction and Reconciles the Labels in the METABRIC Data Set. <i>PLoS ONE</i> , <b>2015</b> , 10, e0129711	3.7	23
107	Are myocardial infarction-associated single-nucleotide polymorphisms associated with ischemic stroke?. <i>Stroke</i> , <b>2012</b> , 43, 980-6	6.7	23
106	Differences in abundances of cell-signalling proteins in blood reveal novel biomarkers for early detection of clinical Alzheimer's disease. <i>PLoS ONE</i> , <b>2011</b> , 6, e17481	3.7	23
105	Deep neural networks understand investors better. <i>Decision Support Systems</i> , <b>2018</b> , 112, 23-34	5.6	23
104	Evolving robust gene regulatory networks. <i>PLoS ONE</i> , <b>2015</b> , 10, e0116258	3.7	22
103	Impact of androgen suppression and zoledronic acid on bone mineral density and fractures in the Trans-Tasman Radiation Oncology Group (TROG) 03.04 Randomised Androgen Deprivation and Radiotherapy (RADAR) randomized controlled trial for locally advanced prostate cancer. <i>BJU International</i> , <b>2014</b> , 114, 344-53	5.6	21
102	Combinatorial optimization models for finding genetic signatures from gene expression datasets. <i>Methods in Molecular Biology</i> , <b>2008</b> , 453, 363-77	1.4	21
101	QAPgrid: a two level QAP-based approach for large-scale data analysis and visualization. <i>PLoS ONE</i> , <b>2011</b> , 6, e14468	3.7	21
100	Unveiling clusters of RNA transcript pairs associated with markers of Alzheimer's disease progression. <i>PLoS ONE</i> , <b>2012</b> , 7, e45535	3.7	21
99	Inferring Phylogenetic Trees Using Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 720-729	0.9	21
98	A data-driven approach to reverse engineering customer engagement models: towards functional constructs. <i>PLoS ONE</i> , <b>2014</b> , 9, e102768	3.7	20
97	A memetic-aided approach to hierarchical clustering from distance matrices: application to gene expression clustering and phylogeny. <i>BioSystems</i> , <b>2003</b> , 72, 75-97	1.9	19
96	Distinguishing childhood absence epilepsy patients from controls by the analysis of their background brain electrical activity (II): a combinatorial optimization approach for electrode selection. <i>Journal of Neuroscience Methods</i> , <b>2009</b> , 181, 257-67	3	18
95	Resequencing and fine-mapping of the chromosome 12q13-14 locus associated with multiple sclerosis refines the number of implicated genes. <i>Human Molecular Genetics</i> , <b>2013</b> , 22, 2283-92	5.6	17
94	Microarrays--identifying molecular portraits for prostate tumors with different Gleason patterns. <i>Methods in Molecular Medicine</i> , <b>2008</b> , 141, 131-51		15

93	A mixed evolutionary-statistical analysis of an algorithm's complexity. <i>Applied Mathematics Letters</i> , <b>2003</b> , 16, 41-47	3.5	14
92	Hierarchical clustering using the arithmetic-harmonic cut: complexity and experiments. <i>PLoS ONE</i> , <b>2010</b> , 5, e14067	3.7	14
91	An automatic graph layout procedure to visualize correlated data <b>2006</b> , 179-188		14
90	Iteratively refining breast cancer intrinsic subtypes in the METABRIC dataset. <i>BioData Mining</i> , <b>2016</b> , 9, 2	4.3	13
89	Disclosed: An efficient depth-first, top-down algorithm for mining disjunctive closed itemsets in high-dimensional data. <i>Information Sciences</i> , <b>2014</b> , 280, 171-187	7.7	13
88	Brain transcriptome perturbations in the Hfe(-/-) mouse model of genetic iron loading. <i>Brain Research</i> , <b>2012</b> , 1448, 144-52	3.7	13
87	A kernelisation approach for multiple d-Hitting Set and its application in optimal multi-drug therapeutic combinations. <i>PLoS ONE</i> , <b>2010</b> , 5, e13055	3.7	13
86	Language Individuation and Marker Words: Shakespeare and His Maxwell's Demon. <i>PLoS ONE</i> , <b>2013</b> , 8, e66813	3.7	13
85	An Integrated QAP-Based Approach to Visualize Patterns of Gene Expression Similarity <b>2007</b> , 156-167		13
84	Applying Memetic Algorithms to the Analysis of Microarray Data. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 22-32	0.9	13
83	An information theoretic clustering approach for unveiling authorship affinities in Shakespearean era plays and poems. <i>PLoS ONE</i> , <b>2014</b> , 9, e111445	3.7	12
82	Evaluation of Different Normalization and Analysis Procedures for Illumina Gene Expression Microarray Data Involving Small Changes. <i>Microarrays (Basel, Switzerland)</i> , <b>2013</b> , 2, 131-52		12
81	Genetic signatures for a rodent model of Parkinson's disease using combinatorial optimization methods. <i>Methods in Molecular Biology</i> , <b>2008</b> , 453, 379-92	1.4	12
80	Extensive Transcriptomic and Genomic Analysis Provides New Insights about Luminal Breast Cancers. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158259	3.7	12
79	An Accelerated Introduction to Memetic Algorithms. <i>Profiles in Operations Research</i> , <b>2019</b> , 275-309	1	12
78	Distinguishing childhood absence epilepsy patients from controls by the analysis of their background brain electrical activity. <i>Journal of Neuroscience Methods</i> , <b>2009</b> , 177, 461-8	3	11
77	Clustering consumers based on trust, confidence and giving behaviour: data-driven model building for charitable involvement in the Australian not-for-profit sector. <i>PLoS ONE</i> , <b>2015</b> , 10, e0122133	3.7	10
76	Optimising weights for heterogeneous ensemble of classifiers with differential evolution <b>2016</b> ,		10

75	Differential kynurenine pathway metabolism in highly metastatic aggressive breast cancer subtypes: beyond IDO1-induced immunosuppression. <i>Breast Cancer Research</i> , <b>2020</b> , 22, 113	8.3	9
74	Clustering Nodes in Large-Scale Biological Networks Using External Memory Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 375-386	0.9	9
73	A new method for mining disjunctive emerging patterns in high-dimensional datasets using hypergraphs. <i>Information Systems</i> , <b>2014</b> , 40, 1-10	2.7	8
72	PasMoQAP: A parallel asynchronous memetic algorithm for solving the Multi-Objective Quadratic Assignment Problem <b>2017</b> ,		8
71	Identifying Communities of Trust and Confidence in the Charity and Not-for-Profit Sector: A Memetic Algorithm Approach <b>2014</b> ,		8
70	Memetic Algorithms: The Untold Story. <i>Studies in Computational Intelligence</i> , <b>2012</b> , 275-309	0.8	8
69	kNN-MST-Agglomerative: A fast and scalable graph-based data clustering approach on GPU <b>2012</b> ,		8
68	Changes in brain transcripts related to Alzheimer's disease in a model of HFE hemochromatosis are not consistent with increased Alzheimer's disease risk. <i>Journal of Alzheimer's Disease</i> , <b>2012</b> , 30, 791-803	4.3	8
67	Enhancing the Performance of Memetic Algorithms by Using a Matching-Based Recombination Algorithm. <i>Applied Optimization</i> , <b>2003</b> , 65-90		8
66	M-Link: a link clustering memetic algorithm for overlapping community detection. <i>Memetic Computing</i> , <b>2020</b> , 12, 87-99	3.4	7
65	Mining disjunctive minimal generators with TitanicOR. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 8228-8238	8.3	7
64	A New Combinatorial Optimization Approach for Integrated Feature Selection Using Different Datasets: A Prostate Cancer Transcriptomic Study. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127702	3.7	7
63	Sifting the wheat from the chaff: prioritizing GWAS results by identifying consistency across analytical methods. <i>Genetic Epidemiology</i> , <b>2011</b> , 35, 745-54	2.6	7
62	Evolving L-Systems as an Intelligent Design Approach to Find Classes of Difficult-to-Solve Traveling Salesman Problem Instances. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 1-11	0.9	7
61	Genes Related with Alzheimer's Disease: A Comparison of Evolutionary Search, Statistical and Integer Programming Approaches. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 84-94	0.9	7
60	kNN-Borůška-GPU: A Fast and Scalable MST Construction from kNN Graphs on GPU. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 71-86	0.9	7
59	A memetic algorithm for the quadratic assignment problem with parallel local search <b>2015</b> ,		6
58	On the Performance of Heuristics on Finite and Infinite Fractal Instances of the Euclidean Traveling Salesman Problem. <i>INFORMS Journal on Computing</i> , <b>1998</b> , 10, 121-132	2.4	6

57	A Novel Clustering Methodology Based on Modularity Optimisation for Detecting Authorship Affinities in Shakespearean Era Plays. <i>PLoS ONE</i> , <b>2016</b> , 11, e0157988	3.7	6
56	Memetic Algorithms <b>2018</b> , 607-638		6
55	Efficient data partitioning for the GPU computation of moment functions. <i>Journal of Parallel and Distributed Computing</i> , <b>2014</b> , 74, 1994-2004	4.4	5
54	Gauging Heterogeneity in Online Consumer Behaviour Data: A Proximity Graph Approach <b>2014</b> ,		5
53	Memetic Algorithms in Bioinformatics. <i>Studies in Computational Intelligence</i> , <b>2012</b> , 261-271	0.8	5
52	Computing large-scale distance matrices on GPU <b>2012</b> ,		5
51	The Gene Interaction Miner: a new tool for data mining contextual information for protein-protein interaction analysis. <i>Bioinformatics</i> , <b>2010</b> , 26, 283-4	7.2	5
50	Scheduling and Production & Control: MA. <i>Studies in Fuzziness and Soft Computing</i> , <b>2004</b> , 655-680	0.7	5
49	Hierarchical Clustering, Languages and Cancer. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 67-78	0.9	5
48	Separating sets of strings by finding matching patterns is almost always hard. <i>Theoretical Computer Science</i> , <b>2017</b> , 665, 73-86	1.1	4
47	Memetic Algorithms for Business Analytics and Data Science: A Brief Survey <b>2019</b> , 545-608		4
46	Memetic Algorithms <b>2011</b> ,		4
45	Genetic biomarkers for brain hemisphere differentiation in Parkinson's Disease. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	4
44	An adaptive memetic algorithm for feature selection using proximity graphs. <i>Computational Intelligence</i> , <b>2019</b> , 35, 156-183	2.5	4
43	Alzheimer's disease patient groups derived from a multivariate analysis of cognitive test outcomes in the Coalition Against Major Diseases dataset. <i>Future Science OA</i> , <b>2016</b> , 2, FSO140	2.7	3
42	A fast meta-heuristic approach for the ((alpha ,beta )-k)-feature set problem. <i>Journal of Heuristics</i> , <b>2016</b> , 22, 199-220	1.9	3
41	Beyond statistics: a new combinatorial approach to identifying biomarker panels for the early detection and diagnosis of Alzheimer's disease. <i>Journal of Alzheimeris Disease</i> , <b>2014</b> , 39, 211-7	4.3	3
40	Where Does My Brand End? An Overlapping Community Approach. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2017</b> , 133-148	0.2	3

39	Engagement in Motion: Exploring Short Term Dynamics in Page-Level Social Media Metrics <b>2014</b> ,		3
38	A proposal for direct-ordering gene expression data by self-organising maps. <i>Applied Soft Computing Journal</i> , <b>2004</b> , 5, 11-21	7.5	3
37	Symbolic Regression Modeling of Drug Responses <b>2018</b> ,		3
36	Business Network Analytics: From Graphs to Supernetworks <b>2019</b> , 307-400		2
35	Legendre moments as high performance bone biomarkers: computational methods and GPU acceleration. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , <b>2016</b> , 4, 146-163	0.9	2
34	A multi-objective approach for the ( $\infty$ )- k -feature set problem using memetic algorithms <b>2017</b> ,		2
33	Identification of genome-wide SNP-SNP and SNP-clinical Boolean interactions in age-related macular degeneration. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1253, 217-55	1.4	2
32	Memetic Algorithms: A Contemporary Introduction 1-15		2
31	Combinatorial and Algorithmic Issues for Microarray Analysis. <i>Chapman &amp; Hall/CRC Computer and Information Science Series</i> , <b>2007</b> , 74-1-74-14		2
30	Anomaly Detection via Mining Numerical Workflow Relations from Logs <b>2020</b> ,		2
29	Novel Biomarkers for Prostate Cancer Revealed by ( $\infty$ )-k-Feature Sets. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 149-175	0.8	2
28	Memetic Algorithms <b>2016</b> , 1-32		2
27	Analytic Continued Fractions for Regression: A Memetic Algorithm Approach. <i>Expert Systems With Applications</i> , <b>2021</b> , 179, 115018	7.8	2
26	Computer-Aided Breast Cancer Diagnosis with Optimal Feature Sets: Reduction Rules and Optimization Techniques. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1526, 299-325	1.4	1
25	The Cohesion-Based Communities of Symptoms of the Largest Component of the DSM-IV Network. <i>Journal of Interconnection Networks</i> , <b>2019</b> , 19, 1940002	0.4	1
24	Datasets for Business and Consumer Analytics <b>2019</b> , 965-987		1
23	Marketing Meets Data Science: Bridging the Gap <b>2019</b> , 3-117		1
22	A Multi-objective Meta-Analytic Method for Customer Churn Prediction <b>2019</b> , 781-813		1



21	Overlapping Communities in Co-purchasing and Social Interaction Graphs: A Memetic Approach <b>2019</b> , 435-466		1
20	A Computational Approach for Designing Combination Therapy in Combating Glioblastoma <b>2019</b> ,		1
19	Using Network Alignment to Identify Conserved Consumer Behaviour Modelling Constructs <b>2019</b> , 513-541		1
18	VLSI design: gate matrix layout problem. <i>Studies in Fuzziness and Soft Computing</i> , <b>2004</b> , 455-478	0.7	1
17	The MST-kNN with Paracliques. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 373-386	0.9	1
16	Relative Neighborhood Graphs Uncover the Dynamics of Social Media Engagement. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 283-297	0.9	1
15	Designing optimal combination therapy for personalised glioma treatment. <i>Memetic Computing</i> , <b>2020</b> , 12, 317-329	3.4	1
14	Automatic Discovery and Cleansing of Numerical Metamorphic Relations <b>2019</b> ,		1
13	Population Studies for the Gate Matrix Layout Problem. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 319-328.	0.9	1
12	Consumer Behaviour and Marketing Fundamentals for Business Data Analytics <b>2019</b> , 119-162		0
11	From Ensemble Learning to Meta-Analytics: A Review on Trends in Business Applications <b>2019</b> , 703-731		0
10	Using the QAPgrid Visualization Approach for Biomarker Identification of Cell-Specific Transcriptomic Signatures. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1526, 271-297		1.4
9	Visualizing Products and Consumers: A Gestalt Theory Inspired Method <b>2019</b> , 661-689		
8	Introducing Clustering with a Focus in Marketing and Consumer Analysis <b>2019</b> , 165-212		
7	Clustering Consumers and Cluster-Specific Behavioural Models <b>2019</b> , 235-267		
6	Big data for big questions: it is time for data analysts to act. <i>Future Science OA</i> , <b>2015</b> , 1, FSO21		2.7
5	World's Best Universities and Personalized Rankings <b>2016</b> , 1-37		
4	World's Best Universities and Personalized Rankings <b>2017</b> , 1-37		

- 3 Augmented intuition: a bridge between theory and practice. *Journal of Heuristics*, **2021**, 27, 497-547 1.9
- 2 World's Best Universities and Personalized Rankings **2018**, 1335-1371
- 1 Multiple regression techniques for modeling dates of first performances of Shakespeare-era plays. *Expert Systems With Applications*, **2022**, 116903 7.8