

Pablo A Moscato

List of Publications by Year in Descending Order

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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	Multiple regression techniques for modeling dates of first performances of Shakespeare-era plays. <i>Expert Systems With Applications</i> , 2022 , 116903	7.8	
145	Augmented intuition: a bridge between theory and practice. <i>Journal of Heuristics</i> , 2021 , 27, 497-547	1.9	
144	Analytic Continued Fractions for Regression: A Memetic Algorithm Approach. <i>Expert Systems With Applications</i> , 2021 , 179, 115018	7.8	2
143	Differential kynurenine pathway metabolism in highly metastatic aggressive breast cancer subtypes: beyond IDO1-induced immunosuppression. <i>Breast Cancer Research</i> , 2020 , 22, 113	8.3	9
142	M-Link: a link clustering memetic algorithm for overlapping community detection. <i>Memetic Computing</i> , 2020 , 12, 87-99	3.4	7
141	Anomaly Detection via Mining Numerical Workflow Relations from Logs 2020 ,		2
140	Designing optimal combination therapy for personalised glioma treatment. <i>Memetic Computing</i> , 2020 , 12, 317-329	3.4	1
139	The Cohesion-Based Communities of Symptoms of the Largest Component of the DSM-IV Network. <i>Journal of Interconnection Networks</i> , 2019 , 19, 1940002	0.4	1
138	Visualizing Products and Consumers: A Gestalt Theory Inspired Method 2019 , 661-689		
137	Datasets for Business and Consumer Analytics 2019 , 965-987		1
136	Introducing Clustering with a Focus in Marketing and Consumer Analysis 2019 , 165-212		
135	Memetic Algorithms for Business Analytics and Data Science: A Brief Survey 2019 , 545-608		4
134	Business Network Analytics: From Graphs to Supernetworks 2019 , 307-400		2
133	Marketing Meets Data Science: Bridging the Gap 2019 , 3-117		1
132	A Multi-objective Meta-Analytic Method for Customer Churn Prediction 2019 , 781-813		1
131	Consumer Behaviour and Marketing Fundamentals for Business Data Analytics 2019 , 119-162		0
130	Clustering Consumers and Cluster-Specific Behavioural Models 2019 , 235-267		

129	Overlapping Communities in Co-purchasing and Social Interaction Graphs: A Memetic Approach 2019 , 435-466		1
128	From Ensemble Learning to Meta-Analytics: A Review on Trends in Business Applications 2019 , 703-731		0
127	A Computational Approach for Designing Combination Therapy in Combating Glioblastoma 2019 ,		1
126	Using Network Alignment to Identify Conserved Consumer Behaviour Modelling Constructs 2019 , 513-541		1
125	Automatic Discovery and Cleansing of Numerical Metamorphic Relations 2019 ,		1
124	An adaptive memetic algorithm for feature selection using proximity graphs. <i>Computational Intelligence</i> , 2019 , 35, 156-183	2.5	4
123	An Accelerated Introduction to Memetic Algorithms. <i>Profiles in Operations Research</i> , 2019 , 275-309	1	12
122	Deep neural networks understand investors better. <i>Decision Support Systems</i> , 2018 , 112, 23-34	5.6	23
121	Symbolic Regression Modeling of Drug Responses 2018 ,		3
120	World's Best Universities and Personalized Rankings 2018 , 1335-1371		
119	Memetic Algorithms 2018 , 607-638		6
118	Separating sets of strings by finding matching patterns is almost always hard. <i>Theoretical Computer Science</i> , 2017 , 665, 73-86	1.1	4
117	Basal-like breast cancer: molecular profiles, clinical features and survival outcomes. <i>BMC Medical Genomics</i> , 2017 , 10, 19	3.7	42
116	Using the QAPgrid Visualization Approach for Biomarker Identification of Cell-Specific Transcriptomic Signatures. <i>Methods in Molecular Biology</i> , 2017 , 1526, 271-297	1.4	
115	Computer-Aided Breast Cancer Diagnosis with Optimal Feature Sets: Reduction Rules and Optimization Techniques. <i>Methods in Molecular Biology</i> , 2017 , 1526, 299-325	1.4	1
114	A multi-objective approach for the (P N)-k -feature set problem using memetic algorithms 2017 ,		2
113	PasMoQAP: A parallel asynchronous memetic algorithm for solving the Multi-Objective Quadratic Assignment Problem 2017 ,		8
112	Where Does My Brand End? An Overlapping Community Approach. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2017 , 133-148	0.2	3

111	World's Best Universities and Personalized Rankings 2017 , 1-37		
110	An integer programming model for protein structure prediction using the 3D-HP side chain model. <i>Discrete Applied Mathematics</i> , 2016 , 198, 206-214	1	30
109	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> , 2016 , 2, FSO140	2.7	3
108	Iteratively refining breast cancer intrinsic subtypes in the METABRIC dataset. <i>BioData Mining</i> , 2016 , 9, 2	4.3	13
107	Legendre moments as high performance bone biomarkers: computational methods and GPU acceleration. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2016 , 4, 146-163	0.9	2
106	Blood metabolite markers of preclinical Alzheimer's disease in two longitudinally followed cohorts of older individuals. <i>Alzheimeris and Dementia</i> , 2016 , 12, 815-22	1.2	93
105	A fast meta-heuristic approach for the ((alpha ,beta)-k)-feature set problem. <i>Journal of Heuristics</i> , 2016 , 22, 199-220	1.9	3
104	A Novel Clustering Methodology Based on Modularity Optimisation for Detecting Authorship Affinities in Shakespearean Era Plays. <i>PLoS ONE</i> , 2016 , 11, e0157988	3.7	6
103	Extensive Transcriptomic and Genomic Analysis Provides New Insights about Luminal Breast Cancers. <i>PLoS ONE</i> , 2016 , 11, e0158259	3.7	12
102	World's Best Universities and Personalized Rankings 2016 , 1-37		
101	Memetic Algorithms 2016 , 1-32		2
100	Relative Neighborhood Graphs Uncover the Dynamics of Social Media Engagement. <i>Lecture Notes in Computer Science</i> , 2016 , 283-297	0.9	1
99	Heterogeneous Ensemble Combination Search Using Genetic Algorithm for Class Imbalanced Data Classification. <i>PLoS ONE</i> , 2016 , 11, e0146116	3.7	33
98	Identification of Differentially Expressed Genes through Integrated Study of Alzheimer's Disease Affected Brain Regions. <i>PLoS ONE</i> , 2016 , 11, e0152342	3.7	49
97	Optimising weights for heterogeneous ensemble of classifiers with differential evolution 2016 ,		10
96	Big data for big questions: it is time for data analysts to act. <i>Future Science OA</i> , 2015 , 1, FSO21	2.7	
95	A rare P2X7 variant Arg307Gln with absent pore formation function protects against neuroinflammation in multiple sclerosis. <i>Human Molecular Genetics</i> , 2015 , 24, 5644-54	5.6	40
94	A New Combinatorial Optimization Approach for Integrated Feature Selection Using Different Datasets: A Prostate Cancer Transcriptomic Study. <i>PLoS ONE</i> , 2015 , 10, e0127702	3.7	7

93	The Discovery of Novel Biomarkers Improves Breast Cancer Intrinsic Subtype Prediction and Reconciles the Labels in the METABRIC Data Set. <i>PLoS ONE</i> , 2015 , 10, e0129711	3.7	23
92	A memetic algorithm for the quadratic assignment problem with parallel local search 2015 ,		6
91	Identification of genome-wide SNP-SNP and SNP-clinical Boolean interactions in age-related macular degeneration. <i>Methods in Molecular Biology</i> , 2015 , 1253, 217-55	1.4	2
90	Evolving robust gene regulatory networks. <i>PLoS ONE</i> , 2015 , 10, e0116258	3.7	22
89	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> , 2015 , 10, e0122133	3.7	10
88	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> , 2015 , 10, e0127080	3.7	25
87	The MST-kNN with Paracliques. <i>Lecture Notes in Computer Science</i> , 2015 , 373-386	0.9	1
86	The CYP27B1 variant associated with an increased risk of autoimmune disease is underexpressed in tolerizing dendritic cells. <i>Human Molecular Genetics</i> , 2014 , 23, 1425-34	5.6	36
85	A new method for mining disjunctive emerging patterns in high-dimensional datasets using hypergraphs. <i>Information Systems</i> , 2014 , 40, 1-10	2.7	8
84	Efficient data partitioning for the GPU computation of moment functions. <i>Journal of Parallel and Distributed Computing</i> , 2014 , 74, 1994-2004	4.4	5
83	Disclosed: An efficient depth-first, top-down algorithm for mining disjunctive closed itemsets in high-dimensional data. <i>Information Sciences</i> , 2014 , 280, 171-187	7.7	13
82	'Neuroinflammation' differs categorically from inflammation: transcriptomes of Alzheimer's disease, Parkinson's disease, schizophrenia and inflammatory diseases compared. <i>Neurogenetics</i> , 2014 , 15, 201-12	3	48
81	Beyond statistics: a new combinatorial approach to identifying biomarker panels for the early detection and diagnosis of Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2014 , 39, 211-7	4.3	3
80	An information theoretic clustering approach for unveiling authorship affinities in Shakespearean era plays and poems. <i>PLoS ONE</i> , 2014 , 9, e111445	3.7	12
79	Engagement in Motion: Exploring Short Term Dynamics in Page-Level Social Media Metrics 2014 ,		3
78	Identifying Communities of Trust and Confidence in the Charity and Not-for-Profit Sector: A Memetic Algorithm Approach 2014 ,		8
77	Gauging Heterogeneity in Online Consumer Behaviour Data: A Proximity Graph Approach 2014 ,		5
76	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> , 2014 , 114, 344-53	5.6	21

75	A data-driven approach to reverse engineering customer engagement models: towards functional constructs. <i>PLoS ONE</i> , 2014 , 9, e102768	3.7	20
74	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> , 2013 , 22, 2283-92	5.6	17
73	Evaluation of Different Normalization and Analysis Procedures for Illumina Gene Expression Microarray Data Involving Small Changes. <i>Microarrays (Basel, Switzerland)</i> , 2013 , 2, 131-52		12
72	Language Individuation and Marker Words: Shakespeare and His Maxwell's Demon. <i>PLoS ONE</i> , 2013 , 8, e66813	3.7	13
71	Mining disjunctive minimal generators with TitanicOR. <i>Expert Systems With Applications</i> , 2012 , 39, 8228-8238		7
70	Brain transcriptome perturbations in the Hfe(-/-) mouse model of genetic iron loading. <i>Brain Research</i> , 2012 , 1448, 144-52	3.7	13
69	Memetic Algorithms: The Untold Story. <i>Studies in Computational Intelligence</i> , 2012 , 275-309	0.8	8
68	Memetic Algorithms in Bioinformatics. <i>Studies in Computational Intelligence</i> , 2012 , 261-271	0.8	5
67	kNN-MST-Agglomerative: A Fast and scalable graph-based data clustering approach on GPU 2012 ,		8
66	Common variants at 6p21.1 are associated with large artery atherosclerotic stroke. <i>Nature Genetics</i> , 2012 , 44, 1147-51	36.3	126
65	Computing large-scale distance matrices on GPU 2012 ,		5
64	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	3.7	58
63	GPU-FS-kNN: a software tool for fast and scalable kNN computation using GPUs. <i>PLoS ONE</i> , 2012 , 7, e44000	3.7	48
62	Are myocardial infarction-associated single-nucleotide polymorphisms associated with ischemic stroke?. <i>Stroke</i> , 2012 , 43, 980-6	6.7	23
61	Genome-wide analysis of long noncoding RNA stability. <i>Genome Research</i> , 2012 , 22, 885-98	9.7	373
60	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> , 2012 , 30, 791-803	4.3	8
59	Unveiling clusters of RNA transcript pairs associated with markers of Alzheimer's disease progression. <i>PLoS ONE</i> , 2012 , 7, e45535	3.7	21
58	kNN-Borůška-GPU: A Fast and Scalable MST Construction from kNN Graphs on GPU. <i>Lecture Notes in Computer Science</i> , 2012 , 71-86	0.9	7

57	Memetic Algorithms 2011 ,		4
56	Genome-wide meta-analysis identifies novel multiple sclerosis susceptibility loci. <i>Annals of Neurology</i> , 2011 , 70, 897-912	9.4	263
55	Sifting the wheat from the chaff: prioritizing GWAS results by identifying consistency across analytical methods. <i>Genetic Epidemiology</i> , 2011 , 35, 745-54	2.6	7
54	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> , 2011 , 1-11	0.9	7
53	QAPgrid: a two level QAP-based approach for large-scale data analysis and visualization. <i>PLoS ONE</i> , 2011 , 6, e14468	3.7	21
52	Polymorphisms in the receptor tyrosine kinase MERTK gene are associated with multiple sclerosis susceptibility. <i>PLoS ONE</i> , 2011 , 6, e16964	3.7	35
51	Differences in abundances of cell-signalling proteins in blood reveal novel biomarkers for early detection of clinical Alzheimer's disease. <i>PLoS ONE</i> , 2011 , 6, e17481	3.7	23
50	Clustering Nodes in Large-Scale Biological Networks Using External Memory Algorithms. <i>Lecture Notes in Computer Science</i> , 2011 , 375-386	0.9	9
49	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	3.7	39
48	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	3.7	100
47	A kernelisation approach for multiple d-Hitting Set and its application in optimal multi-drug therapeutic combinations. <i>PLoS ONE</i> , 2010 , 5, e13055	3.7	13
46	A polymorphism in the HLA-DPB1 gene is associated with susceptibility to multiple sclerosis. <i>PLoS ONE</i> , 2010 , 5, e13454	3.7	43
45	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	3.7	44
44	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, 2134-43	5.6	103
43	The Gene Interaction Miner: a new tool for data mining contextual information for protein-protein interaction analysis. <i>Bioinformatics</i> , 2010 , 26, 283-4	7.2	5
42	A Modern Introduction to Memetic Algorithms. <i>Profiles in Operations Research</i> , 2010 , 141-183	1	44
41	Cancer biomarker discovery: the entropic hallmark. <i>PLoS ONE</i> , 2010 , 5, e12262	3.7	39
40	Hierarchical clustering using the arithmetic-harmonic cut: complexity and experiments. <i>PLoS ONE</i> , 2010 , 5, e14067	3.7	14

39	Genome-wide association study identifies new multiple sclerosis susceptibility loci on chromosomes 12 and 20. <i>Nature Genetics</i> , 2009 , 41, 824-8	36.3	432
38	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	3.3	42
37	Distinguishing childhood absence epilepsy patients from controls by the analysis of their background brain electrical activity. <i>Journal of Neuroscience Methods</i> , 2009 , 177, 461-8	3	11
36	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> , 2009 , 181, 257-67	3	18
35	Is there more than one proctitis syndrome? A revisit using data from the TROG 96.01 trial. <i>Radiotherapy and Oncology</i> , 2009 , 90, 400-7	5.3	65
34	Novel Biomarkers for Prostate Cancer Revealed by (k)-Feature Sets. <i>Studies in Computational Intelligence</i> , 2009 , 149-175	0.8	2
33	Microarrays--identifying molecular portraits for prostate tumors with different Gleason patterns. <i>Methods in Molecular Medicine</i> , 2008 , 141, 131-51		15
32	Combinatorial optimization models for finding genetic signatures from gene expression datasets. <i>Methods in Molecular Biology</i> , 2008 , 453, 363-77	1.4	21
31	Genetic signatures for a rodent model of Parkinson's disease using combinatorial optimization methods. <i>Methods in Molecular Biology</i> , 2008 , 453, 379-92	1.4	12
30	Identification of a 5-protein biomarker molecular signature for predicting Alzheimer's disease. <i>PLoS ONE</i> , 2008 , 3, e3111	3.7	80
29	Benchmarking a memetic algorithm for ordering microarray data. <i>BioSystems</i> , 2007 , 88, 56-75	1.9	60
28	Genetic biomarkers for brain hemisphere differentiation in Parkinson's Disease. <i>AIP Conference Proceedings</i> , 2007 ,	0	4
27	Combinatorial and Algorithmic Issues for Microarray Analysis. <i>Chapman & Hall/CRC Computer and Information Science Series</i> , 2007 , 74-1-74-14		2
26	An Integrated QAP-Based Approach to Visualize Patterns of Gene Expression Similarity 2007 , 156-167		13
25	Hierarchical Clustering, Languages and Cancer. <i>Lecture Notes in Computer Science</i> , 2006 , 67-78	0.9	5
24	An automatic graph layout procedure to visualize correlated data 2006 , 179-188		14
23	Evolutionary algorithms for scheduling a flowshop manufacturing cell with sequence dependent family setups. <i>Computers and Industrial Engineering</i> , 2005 , 48, 491-506	6.4	94
22	Genes Related with Alzheimer's Disease: A Comparison of Evolutionary Search, Statistical and Integer Programming Approaches. <i>Lecture Notes in Computer Science</i> , 2005 , 84-94	0.9	7

21	A New Memetic Algorithm for the Asymmetric Traveling Salesman Problem. <i>Journal of Heuristics</i> , 2004 , 10, 483-506	1.9	78
20	A proposal for direct-ordering gene expression data by self-organising maps. <i>Applied Soft Computing Journal</i> , 2004 , 5, 11-21	7.5	3
19	Memetic Algorithms. <i>Studies in Fuzziness and Soft Computing</i> , 2004 , 53-85	0.7	56
18	Evolutionary Search of Thresholds for Robust Feature Set Selection: Application to the Analysis of Microarray Data. <i>Lecture Notes in Computer Science</i> , 2004 , 21-30	0.9	24
17	VLSI design: gate matrix layout problem. <i>Studies in Fuzziness and Soft Computing</i> , 2004 , 455-478	0.7	1
16	Scheduling and Production & Control: MA. <i>Studies in Fuzziness and Soft Computing</i> , 2004 , 655-680	0.7	5
15	The k-Feature Set problem is W[2]-complete. <i>Journal of Computer and System Sciences</i> , 2003 , 67, 686-690		26
14	A mixed evolutionary-statistical analysis of an algorithm's complexity. <i>Applied Mathematics Letters</i> , 2003 , 16, 41-47	3.5	14
13	A memetic-aided approach to hierarchical clustering from distance matrices: application to gene expression clustering and phylogeny. <i>BioSystems</i> , 2003 , 72, 75-97	1.9	19
12	A Gentle Introduction to Memetic Algorithms 2003 , 105-144		189
11	Applying Memetic Algorithms to the Analysis of Microarray Data. <i>Lecture Notes in Computer Science</i> , 2003 , 22-32	0.9	13
10	Enhancing the Performance of Memetic Algorithms by Using a Matching-Based Recombination Algorithm. <i>Applied Optimization</i> , 2003 , 65-90		8
9	Comparing meta-heuristic approaches for parallel machine scheduling problems. <i>Production Planning and Control</i> , 2002 , 13, 143-154	4.3	38
8	Population Studies for the Gate Matrix Layout Problem. <i>Lecture Notes in Computer Science</i> , 2002 , 319-328	0.9	1
7	Inferring Phylogenetic Trees Using Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , 2002 , 720-729	0.9	21
6	A memetic algorithm for the total tardiness single machine scheduling problem. <i>European Journal of Operational Research</i> , 2001 , 132, 224-242	5.6	130
5	On the Performance of Heuristics on Finite and Infinite Fractal Instances of the Euclidean Traveling Salesman Problem. <i>INFORMS Journal on Computing</i> , 1998 , 10, 121-132	2.4	6
4	The euclidean traveling salesman problem and a space-filling curve. <i>Chaos, Solitons and Fractals</i> , 1995 , 6, 389-397	9.3	35

3	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	3.2	46
2	Stochastic versus deterministic update in simulated annealing. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990 , 146, 204-208	2.3	68
1	Memetic Algorithms: A Contemporary Introduction1-15		2