

Amir H Alavi

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.

172
papers

10,559
citations

48
h-index

100
g-index

188
ext. papers

12,585
ext. citations

4.5
avg, IF

7.11
L-index

#	Paper	IF	Citations
172	Magnetic capsule triboelectric nanogenerators.. <i>Scientific Reports</i> , 2022 , 12, 89	4.9	4
171	Impact of new multiple twisted tapes on treatment of solar heat exchanger. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	11
170	Advanced sensing and monitoring systems for smart cities 2022 , 1-26		0
169	Advanced multifunctional structures for future smart cities 2022 , 29-52		1
168	A comprehensive review of self-powered sensors in civil infrastructure: State-of-the-art and future research trends. <i>Engineering Structures</i> , 2021 , 234, 111963	4.7	20
167	Next-generation remote sensing and prediction of sand and dust storms: State-of-the-art and future trends. <i>International Journal of Remote Sensing</i> , 2021 , 42, 5277-5316	3.1	2
166	A New Structural Health Monitoring Approach Based on Smartphone Measurements of Magnetic Field Intensity. <i>IEEE Instrumentation and Measurement Magazine</i> , 2021 , 24, 49-58	1.4	8
165	A molecular sensing method integrated with support vector machines to characterize asphalt mixtures. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 179, 109528	4.6	1
164	An explainable prediction framework for engineering problems: case studies in reinforced concrete members modeling. <i>Engineering Computations</i> , 2021 , ahead-of-print,	1.4	1
163	Internet of things-based fog and cloud computing technology for smart traffic monitoring. <i>Internet of Things (Netherlands)</i> , 2021 , 14, 100175	6.9	19
162	Monarch butterfly optimization: A comprehensive review. <i>Expert Systems With Applications</i> , 2021 , 168, 114418	7.8	67
161	Developing a prediction model for rutting depth of asphalt mixtures using gene expression programming. <i>Construction and Building Materials</i> , 2021 , 267, 120543	6.7	11
160	A new approach for crack detection in plate structures using an integrated extended finite element and enhanced vibrating particles system optimization methods. <i>Structures</i> , 2021 , 29, 638-651	3.4	7
159	Genetic programming in civil engineering: advent, applications and future trends. <i>Artificial Intelligence Review</i> , 2021 , 54, 1863-1885	9.7	18
158	Artificial intelligence-enabled smart mechanical metamaterials: advent and future trends. <i>International Materials Reviews</i> , 2021 , 66, 365-393	16.1	12
157	Studying the Feasibility of Postoperative Monitoring of Spinal Fusion Progress Using a Self-powered Fowler-Nordheim Sensor-Data-Logger. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , PP,	5	2
156	A deep learning approach to predict Hamburg rutting curve. <i>Road Materials and Pavement Design</i> , 2021 , 22, 2159-2180	2.6	3

155	Multifunctional Meta-Tribomaterial Nanogenerators for Energy Harvesting and Active Sensing. <i>Nano Energy</i> , 2021 , 86,	17.1	16
154	Multifunctional Triboelectric Nanogenerator-enabled Structural Elements for Next Generation Civil Infrastructure Monitoring Systems.. <i>Advanced Functional Materials</i> , 2021 , 31, 2105825	15.6	7
153	Evolutionary computation for design and characterization of nanoscale metastructures. <i>Applied Materials Today</i> , 2020 , 21, 100816	6.6	3
152	Prediction of the Vaccine-derived Poliovirus Outbreak Incidence: A Hybrid Machine Learning Approach. <i>Scientific Reports</i> , 2020 , 10, 5058	4.9	1
151	Learning-based elephant herding optimization algorithm for solving numerical optimization problems. <i>Knowledge-Based Systems</i> , 2020 , 195, 105675	7.3	50
150	Smartphone-based molecular sensing for advanced characterization of asphalt concrete materials. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 151, 107212	4.6	15
149	Artificial intelligence in seismology: Advent, performance and future trends. <i>Geoscience Frontiers</i> , 2020 , 11, 739-744	6	25
148	Mechanical metamaterial piezoelectric nanogenerator (MM-PENG): Design principle, modeling and performance. <i>Materials and Design</i> , 2020 , 187, 108214	8.1	14
147	Piezoelectric Sensing Techniques in Structural Health Monitoring: A State-of-the-Art Review. <i>Sensors</i> , 2020 , 20,	3.8	33
146	Real-Time Detection of Cracks on Concrete Bridge Decks Using Deep Learning in the Frequency Domain. <i>Engineering</i> , 2020 , 7, 1786-1786	9.7	18
145	An enhanced adaptive global-best harmony search algorithm for continuous optimization problems. <i>Engineering Reports</i> , 2020 , 2, e12264	1.2	
144	Elephant Herding Optimization: Variants, Hybrids, and Applications. <i>Mathematics</i> , 2020 , 8, 1415	2.3	67
143	Behavior of crossover operators in NSGA-III for large-scale optimization problems. <i>Information Sciences</i> , 2020 , 509, 470-487	7.7	93
142	High-performance fiber reinforced concrete as a repairing material to normal concrete structures: Experiments, numerical simulations and a machine learning-based prediction model. <i>Construction and Building Materials</i> , 2019 , 223, 1167-1181	6.7	13
141	Verification of data integrity and co-operative loss recovery for secure data storage in cloud computing. <i>Cogent Engineering</i> , 2019 , 6, 1654694	1.5	1
140	New machine learning prediction models for compressive strength of concrete modified with glass cullet. <i>Engineering Computations</i> , 2019 , 36, 876-898	1.4	19
139	Electrochemical study of the inhibition effect of cow bone ash on the corrosion resistance of mild steel in artificial concrete pore solution. <i>Cogent Engineering</i> , 2019 , 6, 1644710	1.5	1
138	An Intelligent Model for the Prediction of Bond Strength of FRP Bars in Concrete: A Soft Computing Approach. <i>Technologies</i> , 2019 , 7, 42	2.4	8

137	A Shannon entropy approach for structural damage identification based on self-powered sensor data. <i>Engineering Structures</i> , 2019 , 200, 109619	4.7	12
136	A Novel Data Reduction Approach for Structural Health Monitoring Systems. <i>Sensors</i> , 2019 , 19,	3.8	3
135	Self-charging and self-monitoring smart civil infrastructure systems: current practice and future trends 2019 ,		5
134	Bond strength prediction of FRP-bar reinforced concrete 2019 ,		3
133	Size-dependent buckling instability and recovery of beam-like, architected microstructures. <i>Materials and Design</i> , 2019 , 162, 405-417	8.1	6
132	An overview of smartphone technology for citizen-centered, real-time and scalable civil infrastructure monitoring. <i>Future Generation Computer Systems</i> , 2019 , 93, 651-672	7.5	41
131	New machine learning-based prediction models for fracture energy of asphalt mixtures. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 135, 438-451	4.6	46
130	Structural damage detection using rate of total energy. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 133, 91-98	4.6	1
129	Development of prediction models for shear strength of SFRCB using a machine learning approach. <i>Neural Computing and Applications</i> , 2019 , 31, 2085-2094	4.8	24
128	Small and large deformation models of post-buckled beams under lateral constraints. <i>Mathematics and Mechanics of Solids</i> , 2019 , 24, 386-405	2.3	9
127	A comprehensive review of krill herd algorithm: variants, hybrids and applications. <i>Artificial Intelligence Review</i> , 2019 , 51, 119-148	9.7	106
126	Micro-composite films constrained by irregularly bilateral walls: A size-dependent post-buckling analysis. <i>Composite Structures</i> , 2018 , 195, 219-231	5.3	9
125	Damage localization and quantification in gusset plates: A battery-free sensing approach. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2158	4.5	10
124	An energy harvesting and damage sensing solution based on postbuckling response of nonuniform cross-section beams. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2052	4.5	8
123	An improved NSGA-III algorithm with adaptive mutation operator for Big Data optimization problems. <i>Future Generation Computer Systems</i> , 2018 , 88, 571-585	7.5	96
122	Internet of Things-enabled smart cities: State-of-the-art and future trends. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018 , 129, 589-606	4.6	156
121	Structural health monitoring of steel frames using a network of self-powered strain and acceleration sensors: A numerical study. <i>Automation in Construction</i> , 2018 , 85, 344-357	9.6	24
120	A web server for comparative analysis of single-cell RNA-seq data. <i>Nature Communications</i> , 2018 , 9, 4768	7.4	32

119	Metaheuristics in Reliability and Risk Analysis. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2018 , 4, 02018001	1.7	
118	Buckling analysis of graphene-reinforced mechanical metamaterial beams with periodic webbing patterns. <i>International Journal of Engineering Science</i> , 2018 , 131, 1-18	5.7	36
117	Detection of fatigue cracking in steel bridge girders: A support vector machine approach. <i>Archives of Civil and Mechanical Engineering</i> , 2017 , 17, 609-622	3.4	48
116	Structural health monitoring using a hybrid network of self-powered accelerometer and strain sensors 2017 ,		2
115	An energy harvesting solution based on the post-buckling response of non-prismatic slender beams 2017 ,		4
114	A new method for detection of fatigue cracking in steel bridge girders using self-powered wireless sensors 2017 ,		2
113	A self-powered surface sensing approach for detection of bottom-up cracking in asphalt concrete pavements: Theoretical/numerical modeling. <i>Construction and Building Materials</i> , 2017 , 144, 728-746	6.7	21
112	New prediction models for concrete ultimate strength under true-triaxial stress states: An evolutionary approach. <i>Advances in Engineering Software</i> , 2017 , 110, 55-68	3.6	32
111	A new approach for modeling of flow number of asphalt mixtures. <i>Archives of Civil and Mechanical Engineering</i> , 2017 , 17, 326-335	3.4	8
110	Self-powered piezo-floating-gate sensors for health monitoring of steel plates. <i>Engineering Structures</i> , 2017 , 148, 584-601	4.7	13
109	A new approach for damage detection in asphalt concrete pavements using battery-free wireless sensors with non-constant injection rates. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017 , 110, 217-229	4.6	25
108	Formulation of shear strength of slender RC beams using gene expression programming, part II: With shear reinforcement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017 , 95, 367-376	4.6	29
107	Fatigue cracking detection in steel bridge girders through a self-powered sensing concept. <i>Journal of Constructional Steel Research</i> , 2017 , 128, 19-38	3.8	38
106	A new hybrid method based on krill herd and cuckoo search for global optimisation tasks. <i>International Journal of Bio-Inspired Computation</i> , 2016 , 8, 286	2.9	82
105	A Multi-Stage Krill Herd Algorithm for Global Numerical Optimization. <i>International Journal on Artificial Intelligence Tools</i> , 2016 , 25, 1550030	0.9	39
104	New design equations for estimation of ultimate bearing capacity of shallow foundations resting on rock masses. <i>Geoscience Frontiers</i> , 2016 , 7, 91-99	6	26
103	Chaotic cuckoo search. <i>Soft Computing</i> , 2016 , 20, 3349-3362	3.5	153
102	A hybrid method based on krill herd and quantum-behaved particle swarm optimization. <i>Neural Computing and Applications</i> , 2016 , 27, 989-1006	4.8	94

101	Damage detection using self-powered wireless sensor data: An evolutionary approach. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 82, 254-283	4.6	41
100	Deriving an intelligent model for soil compression index utilizing multi-gene genetic programming. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	20
99	An intelligent structural damage detection approach based on self-powered wireless sensor data. <i>Automation in Construction</i> , 2016 , 62, 24-44	9.6	73
98	Opposition-based krill herd algorithm with Cauchy mutation and position clamping. <i>Neurocomputing</i> , 2016 , 177, 147-157	5.4	120
97	Machine learning in geosciences and remote sensing. <i>Geoscience Frontiers</i> , 2016 , 7, 3-10	6	472
96	A new hybrid method based on krill herd and cuckoo search for global optimisation tasks. <i>International Journal of Bio-Inspired Computation</i> , 2016 , 8, 286	2.9	6
95	A Hybrid Meta-Heuristic Method Based on Firefly Algorithm and Krill Herd. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2016 , 505-524	0.3	5
94	Damage Detection in Pavement Structures Using Self-powered Sensors. <i>RILEM Bookseries</i> , 2016 , 665-671	0.5	2
93	An optimal event-triggered tracking control for battery-based wireless sensor networks 2016 ,		3
92	Continuous health monitoring of pavement systems using smart sensing technology. <i>Construction and Building Materials</i> , 2016 , 114, 719-736	6.7	64
91	Post-buckling response of non-uniform cross-section bilaterally constrained beams. <i>Mechanics Research Communications</i> , 2016 , 78, 42-50	2.2	20
90	Damage growth detection in steel plates: Numerical and experimental studies. <i>Engineering Structures</i> , 2016 , 128, 124-138	4.7	13
89	Next-Generation Models for Evaluation of the Flow Number of Asphalt Mixtures. <i>International Journal of Geomechanics</i> , 2015 , 15, 04015009	3.1	7
88	AN INTRODUCTION OF KRILL HERD ALGORITHM FOR ENGINEERING OPTIMIZATION. <i>Journal of Civil Engineering and Management</i> , 2015 , 22, 302-310	3	21
87	Integration of a prototype wireless communication system with micro-electromechanical temperature and humidity sensor for concrete pavement health monitoring. <i>Cogent Engineering</i> , 2015 , 2, 1014278	1.5	3
86	Explicit formulation of bearing capacity of shallow foundations on rock masses using artificial neural networks: application and supplementary studies. <i>Environmental Earth Sciences</i> , 2015 , 73, 3417-3431	2.9	31
85	A Hybrid PBIL-Based Krill Herd Algorithm 2015 ,		7
84	A novel self-powered approach for structural health monitoring 2015 ,		1

83	Study of Lagrangian and Evolutionary Parameters in Krill Herd Algorithm. <i>Adaptation, Learning, and Optimization</i> , 2015 , 111-128	0.7	7
82	Hybrid krill herd algorithm with differential evolution for global numerical optimization. <i>Neural Computing and Applications</i> , 2014 , 25, 297-308	4.8	143
81	Stud krill herd algorithm. <i>Neurocomputing</i> , 2014 , 128, 363-370	5.4	178
80	Formulation of shear strength of slender RC beams using gene expression programming, part I: Without shear reinforcement. <i>Automation in Construction</i> , 2014 , 42, 112-121	9.6	48
79	Linear genetic programming for shear strength prediction of reinforced concrete beams without stirrups. <i>Applied Soft Computing Journal</i> , 2014 , 19, 112-120	7.5	38
78	A new improved krill herd algorithm for global numerical optimization. <i>Neurocomputing</i> , 2014 , 138, 392-402	4.2	120
77	An effective krill herd algorithm with migration operator in biogeography-based optimization. <i>Applied Mathematical Modelling</i> , 2014 , 38, 2454-2462	4.5	187
76	An evolutionary computational approach for formulation of compression index of fine-grained soils. <i>Engineering Applications of Artificial Intelligence</i> , 2014 , 33, 58-68	7.2	40
75	A novel improved accelerated particle swarm optimization algorithm for global numerical optimization. <i>Engineering Computations</i> , 2014 , 31, 1198-1220	1.4	102
74	THE NEXT-GENERATION CONSTITUTIVE CORRELATIONS FOR SIMULATION OF CYCLIC STRESS-STRAIN BEHAVIOUR OF SAND. <i>Journal of Civil Engineering and Management</i> , 2014 , 21, 31-44	3	2
73	A Novel Cuckoo Search with Chaos Theory and Elitism Scheme 2014 ,		6
72	A NEW DESIGN EQUATION FOR PREDICTION OF ULTIMATE BEARING CAPACITY OF SHALLOW FOUNDATION ON GRANULAR SOILS. <i>Journal of Civil Engineering and Management</i> , 2014 , 19, S78-S90	3	10
71	Multigene Genetic Programming for Estimation of Elastic Modulus of Concrete. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-10	1.1	11
70	An innovative approach for modeling of hysteretic energy demand in steel moment resisting frames. <i>Neural Computing and Applications</i> , 2014 , 24, 1285-1291	4.8	10
69	Structural Optimization Using Krill Herd Algorithm 2013 , 335-349		14
68	Bat algorithm for constrained optimization tasks. <i>Neural Computing and Applications</i> , 2013 , 22, 1239-1255	4.8	336
67	Design equations for prediction of pressuremeter soil deformation moduli utilizing expression programming systems. <i>Neural Computing and Applications</i> , 2013 , 23, 1771-1786	4.8	43
66	New design equations for assessment of load carrying capacity of castellated steel beams: a machine learning approach. <i>Neural Computing and Applications</i> , 2013 , 23, 119-131	4.8	14

65	An evolutionary approach for modeling of shear strength of RC deep beams. <i>Materials and Structures/Materiaux Et Constructions</i> , 2013 , 46, 2109-2119	3.4	127
64	Formulation of soil angle of shearing resistance using a hybrid GP and OLS method. <i>Engineering With Computers</i> , 2013 , 29, 37-53	4.5	10
63	An empirical model for shear capacity of RC deep beams using genetic-simulated annealing. <i>Archives of Civil and Mechanical Engineering</i> , 2013 , 13, 354-369	3.4	33
62	A chaotic particle-swarm krill herd algorithm for global numerical optimization. <i>Kybernetes</i> , 2013 , 42, 962-978	2	99
61	Numerical modeling of concrete strength under multiaxial confinement pressures using linear genetic programming. <i>Automation in Construction</i> , 2013 , 36, 136-144	9.6	22
60	Expression Programming Techniques for Formulation of Structural Engineering Systems 2013 , 439-455		11
59	Cuckoo search algorithm: a metaheuristic approach to solve structural optimization problems. <i>Engineering With Computers</i> , 2013 , 29, 17-35	4.5	1163
58	Metaheuristic Algorithms in Modeling and Optimization 2013 , 1-24		71
57	Firefly algorithm with chaos. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 89-98	3.7	558
56	Real time substation distributed control system simulator development based on IEC 61850 standard for a sample substation (case study: Sheikh bahayi substation 400/230/63KV) 2013 ,		2
55	Krill herd algorithm for optimum design of truss structures. <i>International Journal of Bio-Inspired Computation</i> , 2013 , 5, 281	2.9	47
54	Simulated Annealing-Based Krill Herd Algorithm for Global Optimization. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-11	0.7	17
53	My-Flight Krill Herd Algorithm. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-14	1.1	41
52	Discussion on Prediction of shear strength parameters of soils using artificial neural networks and multivariate regression methods <i>Engineering Geology</i> , 2012 , 137-138, 107-108	6	2
51	A new multi-gene genetic programming approach to nonlinear system modeling. Part I: materials and structural engineering problems. <i>Neural Computing and Applications</i> , 2012 , 21, 171-187	4.8	179
50	A new multi-gene genetic programming approach to non-linear system modeling. Part II: geotechnical and earthquake engineering problems. <i>Neural Computing and Applications</i> , 2012 , 21, 189-201	4.8	123
49	Robust attenuation relations for peak time-domain parameters of strong ground motions. <i>Environmental Earth Sciences</i> , 2012 , 67, 53-70	2.9	12
48	Discussion on Models to predict the deformation modulus and the coefficient of subgrade reaction for earth filling structures by Ismail Dinçer [Adv. Eng. Software 42 (2011) 160-171]. <i>Advances in Engineering Software</i> , 2012 , 52, 44-46	3.6	2

47	Krill herd: A new bio-inspired optimization algorithm. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012 , 17, 4831-4845	3.7	1162
46	Nonlinear modeling of soil deformation modulus through LGP-based interpretation of pressuremeter test results. <i>Engineering Applications of Artificial Intelligence</i> , 2012 , 25, 1437-1449	7.2	11
45	Energy-based numerical models for assessment of soil liquefaction. <i>Geoscience Frontiers</i> , 2012 , 3, 541-556		73
44	Novel Approach to Strength Modeling of Concrete under Triaxial Compression. <i>Journal of Materials in Civil Engineering</i> , 2012 , 24, 1132-1143	3	75
43	Formulation of secant and reloading soil deformation moduli using multi expression programming. <i>Engineering Computations</i> , 2012 , 29, 173-197	1.4	11
42	A new predictive model for compressive strength of HPC using gene expression programming. <i>Advances in Engineering Software</i> , 2012 , 45, 105-114	3.6	119
41	Reply to Comments on Empirical modelling of plate load test moduli of soil via gene expression programming [by Ali Mollahasani, Amir Hossein Alavi, Amir Hossein Gandomi [Computers and Geotechnics 38 (2011) 281-286]]. <i>Computers and Geotechnics</i> , 2012 , 39, 73-74	4.4	
40	A Genetic Programming-Based Approach for the Performance Characteristics Assessment of Stabilized Soil 2012 , 343-376		7
39	New Ground-Motion Prediction Equations Using Multi Expression Programming. <i>Journal of Earthquake Engineering</i> , 2011 , 15, 511-536	1.8	33
38	Nonlinear Genetic-Based Models for Prediction of Flow Number of Asphalt Mixtures. <i>Journal of Materials in Civil Engineering</i> , 2011 , 23, 248-263	3	178
37	A robust data mining approach for formulation of geotechnical engineering systems. <i>Engineering Computations</i> , 2011 , 28, 242-274	1.4	179
36	Towards the prediction of business failure via computational intelligence techniques. <i>Expert Systems</i> , 2011 , 28, 209-226	2.1	10
35	Multi-stage genetic programming: A new strategy to nonlinear system modeling. <i>Information Sciences</i> , 2011 , 181, 5227-5239	7.7	178
34	Mixed variable structural optimization using Firefly Algorithm. <i>Computers and Structures</i> , 2011 , 89, 2325-2336	4.3	537
33	Prediction of principal ground-motion parameters using a hybrid method coupling artificial neural networks and simulated annealing. <i>Computers and Structures</i> , 2011 , 89, 2176-2194	4.5	160
32	A hybrid computational approach to formulate soil deformation moduli obtained from PLT. <i>Engineering Geology</i> , 2011 , 123, 324-332	6	12
31	Nonlinear genetic-based simulation of soil shear strength parameters. <i>Journal of Earth System Science</i> , 2011 , 120, 1001-1022	1.8	18
30	Formulation of uplift capacity of suction caissons using multi expression programming. <i>KSCE Journal of Civil Engineering</i> , 2011 , 15, 363-373	1.9	29

29	Nonlinear neural-based modeling of soil cohesion intercept. <i>KSCE Journal of Civil Engineering</i> , 2011 , 15, 831-840	1.9	22
28	A hybrid computational approach to derive new ground-motion prediction equations. <i>Engineering Applications of Artificial Intelligence</i> , 2011 , 24, 717-732	7.2	78
27	Genetic-based modeling of uplift capacity of suction caissons. <i>Expert Systems With Applications</i> , 2011 , 38, 12608-12618	7.8	43
26	Empirical modeling of plate load test moduli of soil via gene expression programming. <i>Computers and Geotechnics</i> , 2011 , 38, 281-286	4.4	73
25	Formulation of flow number of asphalt mixes using a hybrid computational method. <i>Construction and Building Materials</i> , 2011 , 25, 1338-1355	6.7	132
24	Permanent deformation analysis of asphalt mixtures using soft computing techniques. <i>Expert Systems With Applications</i> , 2011 , 38, 6081-6100	7.8	64
23	A new prediction model for the load capacity of castellated steel beams. <i>Journal of Constructional Steel Research</i> , 2011 , 67, 1096-1105	3.8	74
22	Applications of Computational Intelligence in Behavior Simulation of Concrete Materials. <i>Studies in Computational Intelligence</i> , 2011 , 221-243	0.8	13
21	Nonlinear modeling of shear strength of SFRC beams using linear genetic programming. <i>Structural Engineering and Mechanics</i> , 2011 , 38, 1-25		64
20	Modeling of maximum dry density and optimum moisture content of stabilized soil using artificial neural networks. <i>Journal of Plant Nutrition and Soil Science</i> , 2010 , 173, 368-379	2.3	69
19	Genetic programming and orthogonal least squares: a hybrid approach to modeling the compressive strength of CFRP-confined concrete cylinders. <i>Journal of Mechanics of Materials and Structures</i> , 2010 , 5, 735-753	1.2	49
18	New formulation for compressive strength of CFRP confined concrete cylinders using linear genetic programming. <i>Materials and Structures/Materiaux Et Constructions</i> , 2010 , 43, 963-983	3.4	93
17	Multi expression programming: a new approach to formulation of soil classification. <i>Engineering With Computers</i> , 2010 , 26, 111-118	4.5	83
16	Numerical modeling of stress-strain behavior of sand under cyclic loading. <i>Engineering Geology</i> , 2010 , 116, 53-72	6	28
15	Formulation of elastic modulus of concrete using linear genetic programming. <i>Journal of Mechanical Science and Technology</i> , 2010 , 24, 1273-1278	1.6	36
14	Discussion on [Alternative data-driven methods to estimate wind from waves by inverse modeling] by Mansi Daga, M. C. Deo [Natural Hazards (2008) NHAZ 524, Article 9299, DOI 10.1007/s11069-008-9299-2]. <i>Natural Hazards</i> , 2010 , 52, 671-673	3	
13	Comment on Sivapragasam C, Maheswaran R, Venkatesh V. 2008. Genetic programming approach for flood routing in natural channels. <i>Hydrological Processes</i> 22: 623-628. <i>Hydrological Processes</i> , 2010 , 24, 798-799	3.3	5
12	Discussion on [Soft computing approach for real-time estimation of missing wave heights] by S.N. Londhe [Ocean Engineering 35 (2008) 1080-1089]. <i>Ocean Engineering</i> , 2010 , 37, 1239-1240	3.9	13

11	Towards automatic detection of atrial fibrillation: A hybrid computational approach. <i>Computers in Biology and Medicine</i> , 2010 , 40, 919-30	7	42
10	A computational intelligence-based approach for short-term traffic flow prediction. <i>Expert Systems</i> , 2010 , 29, no-no	2.1	6
9	High-precision modeling of uplift capacity of suction caissons using a hybrid computational method. <i>Geomechanics and Engineering</i> , 2010 , 2, 253-280		19
8	Modeling of compressive strength of HPC mixes using a combined algorithm of genetic programming and orthogonal least squares. <i>Structural Engineering and Mechanics</i> , 2010 , 36, 225-241		27
7	A data mining approach to compressive strength of CFRP-confined concrete cylinders. <i>Structural Engineering and Mechanics</i> , 2010 , 36, 759-783		8
6	Prediction of maximum dry density and optimum moisture content of stabilised soil using RBF neural networks. <i>IES Journal Part A: Civil and Structural Engineering</i> , 2009 , 2, 98-106		22
5	Behavior appraisal of steel semi-rigid joints using Linear Genetic Programming. <i>Journal of Constructional Steel Research</i> , 2009 , 65, 1738-1750	3.8	32
4	Discussion on Predicting the shear strength of reinforced concrete beams using artificial neural networks by M.Y. Mansour, M. Dicleli, J.Y. Lee, J. Zhang [Eng Struct 26 (2004) 781-799]. <i>Engineering Structures</i> , 2009 , 31, 2801	4.7	
3	A Discussion on Genetic programming for retrieving missing information in wave records along the west coast of India [Applied Ocean Research 2007; 29 (3): 99-111]. <i>Applied Ocean Research</i> , 2008 , 30, 338-339	3.4	16
2	Error Metrics and Performance Fitness Indicators for Artificial Intelligence and Machine Learning in Engineering and Sciences. <i>Architecture, Structures and Construction</i> , 1		9
1	Patient-Specific Self-Powered Metamaterial Implants for Detecting Bone Healing Progress. <i>Advanced Functional Materials</i> , 2203533	15.6	2