

# Mohammad Mehdi Ebadzadeh

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

1,580  
citations

516215

16  
h-index

329751

37  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1487  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A Novel Self-Organizing Fuzzy Neural Network to Learn and Mimic Habitual Sequential Tasks. IEEE Transactions on Cybernetics, 2022, 52, 323-332.  | 6.2 | 20        |
| 2  | A novel learning algorithm based on computing the rulesâ€™ desired outputs of a TSK fuzzy neural network with non-separable fuzzy rules. Neurocomputing, 2022, 470, 139-153.                 | 3.5 | 14        |
| 3  | A full-featured cooperative coevolutionary memory-based artificial immune system for dynamic optimization. Applied Soft Computing Journal, 2022, 117, 108389.                                | 4.1 | 6         |
| 4  | Reservoir weights learning based on adaptive dynamic programming and its application in time series classification. Neural Computing and Applications, 2022, 34, 13201-13217.                | 3.2 | 3         |
| 5  | Semantic schema based genetic programming for symbolic regression. Applied Soft Computing Journal, 2022, 122, 108825.  | 4.1 | 14        |
| 6  | Mathematical analysis of the role of pituitary-adrenal interactions in ultradian rhythms of the HPA axis. Computers in Biology and Medicine, 2021, 135, 104580.                              | 3.9 | 0         |
| 7  | A memetic grouping genetic algorithm for cost efficient VM placement in multi-cloud environment. Cluster Computing, 2020, 23, 797-836.   | 3.5 | 8         |
| 8  | A Computational System-Level Model of Oculomotor Pathways Accounting for the Representation of Eye Biomechanics in the Cerebellar Vermis. IEEE Access, 2020, 8, 110859-110879.               | 2.6 | 0         |
| 9  | Kernel compositional embedding and its application in linguistic structured data classification. Knowledge-Based Systems, 2020, 194, 105553.   | 4.0 | 2         |
| 10 | An intelligent approach for predicting resource usage by combining decomposition techniques with NFTS network. Cluster Computing, 2020, 23, 3435-3460.                                       | 3.5 | 1         |
| 11 | Genetic programming performance prediction and its application for symbolic regression problems. Information Sciences, 2019, 502, 418-433.   | 4.0 | 11        |
| 12 | Fuzzy neural network with support vector-based learning for classification and regression. Soft Computing, 2019, 23, 12153-12168.  | 2.1 | 16        |
| 13 | Dictionary learning enhancement framework: Learning a non-linear mapping model to enhance discriminative dictionary learning methods. Neurocomputing, 2019, 357, 135-150.                    | 3.5 | 7         |
| 14 | Support vector-based fuzzy classifier with adaptive kernel. Neural Computing and Applications, 2019, 31, 2117-2130.  | 3.2 | 5         |
| 15 | IC-FNN: A Novel Fuzzy Neural Network With Interpretable, Intuitive, and Correlated-Contours Fuzzy Rules for Function Approximation. IEEE Transactions on Fuzzy Systems, 2018, 26, 1288-1302. | 6.5 | 44        |
| 16 | An improved semantic schema modeling for genetic programming. Soft Computing, 2018, 22, 3237-3260.   | 2.1 | 3         |
| 17 | Semantic schema modeling for genetic programming using clustering of building blocks. Applied Intelligence, 2018, 48, 1442-1460.   | 3.3 | 4         |
| 18 | A decomposition method for symbolic regression problems. Applied Soft Computing Journal, 2018, 62, 514-523.  | 4.1 | 9         |

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|----|---|-----|-----------|
| 19 | A system-level mathematical model of Basal Ganglia motor-circuit for kinematic planning of arm movements. <i>Computers in Biology and Medicine</i> , 2018, 92, 78-89.   | 3.9 | 8         |
| 20 | Inertia weight control strategies for PSO algorithms. , 2018, , 169-198.  |     | 0         |
| 21 | Optimization of a nonlinear model for predicting the ground vibration using the combinational particle swarm optimization-genetic algorithm. <i>Journal of African Earth Sciences</i> , 2017, 133, 36-45.         | 0.9 | 12        |
| 22 | Graphical model based continuous estimation of distribution algorithm. <i>Applied Soft Computing Journal</i> , 2017, 58, 388-400.   | 4.1 | 11        |
| 23 | Fuzzy neuronal model of motor control inspired by cerebellar pathways to online and gradually learn inverse biomechanical functions in the presence of delay. <i>Biological Cybernetics</i> , 2017, 111, 421-438. | 0.6 | 11        |
| 24 | A possible correlation between the basal ganglia motor function and the inverse kinematics calculation. <i>Journal of Computational Neuroscience</i> , 2017, 43, 295-318.   | 0.6 | 7         |
| 25 | Statistical genetic programming for symbolic regression. <i>Applied Soft Computing Journal</i> , 2017, 60, 447-469.   | 4.1 | 48        |
| 26 | Independent Base Vector Representation to Address Endmember Variability in Hyperspectral Unmixing. <i>Journal of the Indian Society of Remote Sensing</i> , 2017, 45, 417-429.                                    | 1.2 | 2         |
| 27 | BNC-VLA: bayesian network structure learning using a team of variable-action set learning automata. <i>Applied Intelligence</i> , 2016, 45, 135-151.  | 3.3 | 4         |
| 28 | Imprecise query processing in wireless sensor networks: a fuzzy-based approach. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , 2016, 22, 14.   | 0.3 | 1         |
| 29 | A new real-coded stochastic Bayesian optimization algorithm for continuous global optimization. <i>Genetic Programming and Evolvable Machines</i> , 2016, 17, 145-167.  | 1.5 | 3         |
| 30 | Endmember orthonormal mapping in hyperspectral mixture analysis to address endmember variability. <i>Earth Science Informatics</i> , 2016, 9, 291-307.  | 1.6 | 2         |
| 31 | History-Driven Particle Swarm Optimization in dynamic and uncertain environments. <i>Neurocomputing</i> , 2016, 172, 356-370.   | 3.5 | 26        |
| 32 | Semantic schema theory for genetic programming. <i>Applied Intelligence</i> , 2016, 44, 67-87.  | 3.3 | 8         |
| 33 | Dynamics of the HPA axis and inflammatory cytokines: Insights from mathematical modeling. <i>Computers in Biology and Medicine</i> , 2015, 67, 1-12.  | 3.9 | 40        |
| 34 | Cerebellum-inspired neural network solution of the inverse kinematics problem. <i>Biological Cybernetics</i> , 2015, 109, 561-574.  | 0.6 | 12        |
| 35 | Avoiding Overfitting in Symbolic Regression Using the First Order Derivative of GP Trees. , 2015, , .   |     | 9         |
| 36 | CFNN: Correlated fuzzy neural network. <i>Neurocomputing</i> , 2015, 148, 430-444.  | 3.5 | 37        |

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|----|---|-----|-----------|
| 37 | Improving GP generalization: a variance-based layered learning approach. Genetic Programming and Evolvable Machines, 2015, 16, 27-55.                   | 1.5 | 13        |
| 38 | Estimation of mutual information by the fuzzy histogram. Fuzzy Optimization and Decision Making, 2014, 13, 287-318.                                     | 3.4 | 10        |
| 39 | Statistical Genetic Programming: The Role of Diversity. Advances in Intelligent Systems and Computing, 2014, , 37-48.                                   | 0.5 | 2         |
| 40 | Adaptive Parameter Selection in Comprehensive Learning Particle Swarm Optimizer. Communications in Computer and Information Science, 2014, , 267-276.   | 0.4 | 2         |
| 41 | Adaptive cooperative particle swarm optimizer. Applied Intelligence, 2013, 39, 397-420.   | 3.3 | 59        |
| 42 | A robust heuristic algorithm for Cooperative Particle Swarm Optimizer: A Learning Automata approach. , 2012, , .  |     | 6         |
| 43 | Multiscale Gradient Based Swarm Optimizer. , 2012, , .  |     | 2         |
| 44 | Three new fuzzy neural networks learning algorithms based on clustering, training error and genetic algorithm. Applied Intelligence, 2012, 37, 280-289. | 3.3 | 47        |
| 45 | Anatomical Model of VOR Using Fuzzy Neural Network. Procedia Engineering, 2012, 41, 561-566.  | 1.2 | 1         |
| 46 | Immune based fuzzy agent plays checkers game. Applied Soft Computing Journal, 2012, 12, 2227-2236.  | 4.1 | 7         |
| 47 | A competitive clustering particle swarm optimizer for dynamic optimization problems. Swarm Intelligence, 2012, 6, 177-206.                              | 1.3 | 34        |
| 48 | Adaptive Quantum-inspired Evolution Strategy. , 2012, , .   |     | 0         |
| 49 | A fuzzy framework for Semantic Web Service description, matchmaking, ranking and selection. , 2011, , .   |     | 3         |
| 50 | Application of particle swarm optimization and snake model hybrid on medical imaging. , 2011, , .   |     | 14        |
| 51 | A novel particle swarm optimization algorithm with adaptive inertia weight. Applied Soft Computing Journal, 2011, 11, 3658-3670.                        | 4.1 | 655       |
| 52 | Kernel evolution for support vector classification. , 2011, , .   |     | 3         |
| 53 | Finding the isomorphic graph with the use of algorithms based on DNA. , 2010, , .   |     | 0         |
| 54 | Identifying the best attributes for Decision Tree Learning Algorithms, inspired by DNA concepts, in computer science. , 2010, , .                       |     | 0         |

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|----|---|-----|-----------|
| 55 | A new method for impulse noise reduction from digital images Based on Adaptive Neuro-Fuzzy System and Fuzzy Wavelet Shrinkage. , 2010, , .                                      |     | 7         |
| 56 | Enhancement of Ear Verification System Performance Using a New Hybrid Denoising Approach (ANFIS-FWS). , 2010, , .   |     | 2         |
| 57 | Fuzzy External Force for Snake. , 2010, , .   |     | 0         |
| 58 | On fuzzy Semantic Web Services. , 2010, , .   |     | 1         |
| 59 | Immune Based Approach to Find Mixed Nash Equilibrium in Normal Form Games. Journal of Applied Sciences, 2010, 10, 487-493.  | 0.1 | 4         |
| 60 | Quantum-Inspired Evolution Strategy. , 2009, , .  |     | 3         |
| 61 | Fuzzy generalized hough transform invariant to rotation and scale in noisy environment. , 2009, , .   |     | 7         |
| 62 | Introduce a New Inertia Weight for Particle Swarm Optimization. , 2009, , .   |     | 8         |
| 63 | A DDoS-Aware IDS Model Based on Danger Theory and Mobile Agents. , 2009, , .  |     | 13        |
| 64 | A Hybrid Fuzzy Neuro-Immune Network based on Multi-Epitope approach. , 2009, , .  |     | 1         |
| 65 | A novel hybrid algorithm for creating self-organizing fuzzy neural networks. Neurocomputing, 2009, 73, 517-524.   | 3.5 | 27        |
| 66 | An expert system for predicting longitudinal dispersion coefficient in natural streams by using ANFIS. Expert Systems With Applications, 2009, 36, 8589-8596.                   | 4.4 | 91        |
| 67 | A novel multi-epitopic immune network model hybridized with neural theory and fuzzy concept. Neural Networks, 2009, 22, 633-641.  | 3.3 | 12        |
| 68 | Fast and parsimonious self-organizing fuzzy neural network. , 2009, , .   |     | 1         |
| 69 | Comparison of ANFIS and RBF models in daily stream flow forecasting. , 2009, , .  |     | 13        |
| 70 | Integration of Gravitational Torques in Cerebellar Pathways Allows for the Dynamic Inverse Computation of Vertical Pointing Movements of a Robot Arm. PLoS ONE, 2009, 4, e5176. | 1.1 | 17        |
| 71 | Learning automata-based co-evolutionary genetic algorithms for function optimization. , 2008, , .   |     | 4         |
| 72 | Evaluating the performance of DNPSO in dynamic environments. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .                   | 0.0 | 18        |

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|----|--|-----|-----------|
| 73 | DNPSO: A Dynamic Niching Particle Swarm Optimizer for multi-modal optimization. , 2008, , .  |     | 22        |
| 74 | Distributed coloring of the graph edges. , 2008, , .   |     | 4         |
| 75 | Convergence analysis of quantum-inspired genetic algorithms with the population of a single individual. , 2008, , .  |     | 4         |
| 76 | Personalizing Results of Information Retrieval Systems Using Extended Fuzzy Concept Networks. , 2008, , .  |     | 2         |
| 77 | Material Classification of Hyperspectral Images Using Unsupervised Fuzzy Clustering Methods. , 2007, , .   |     | 5         |
| 78 | Automatic Design of Modular Neural Networks Using Genetic Programming. Lecture Notes in Computer Science, 2007, , 788-798.                                   | 1.0 | 11        |
| 79 | Computation of inverse functions in a model of cerebellar and reflex pathways allows to control a mobile mechanical segment. Neuroscience, 2005, 133, 29-49. | 1.1 | 17        |
| 80 | Cerebellar learning of bio-mechanical functions of extra-ocular muscles: modeling by artificial neural networks. Neuroscience, 2003, 122, 941-966.           | 1.1 | 20        |