

Amit Konar

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.

180
papers

2,738
citations

18
h-index

48
g-index

237
ext. papers

3,290
ext. citations

3.8
avg, IF

5.25
L-index

#	Paper	IF	Citations
180	Differential Evolution Using a Neighborhood-Based Mutation Operator. <i>IEEE Transactions on Evolutionary Computation</i> , 2009 , 13, 526-553	15.6	812
179	Automatic Clustering Using an Improved Differential Evolution Algorithm. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2008 , 38, 218-237		496
178	A Deterministic Improved Q-Learning for Path Planning of a Mobile Robot. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2013 , 43, 1141-1153	7.3	111
177	Realization of an Adaptive Memetic Algorithm Using Differential Evolution and Q-Learning: A Case Study in Multirobot Path Planning. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2013 , 43, 814-831	7.3	93
176	Uncertainty Management in Differential Evolution Induced Multiobjective Optimization in Presence of Measurement Noise. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2014 , 44, 922-937	7.3	59
175	Performance analysis of LDA, QDA and KNN algorithms in left-right limb movement classification from EEG data 2010 ,		57
174	On Stability of the Chemotactic Dynamics in Bacterial-Foraging Optimization Algorithm. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2009 , 39, 670-679		57
173	A study on emotion recognition from body gestures using Kinect sensor 2014 ,		36
172	Tuning PID and PI/D _C Controllers using the Integral Time Absolute Error Criterion 2008 ,		35
171	EEG Analysis for Olfactory Perceptual-Ability Measurement Using a Recurrent Neural Classifier. <i>IEEE Transactions on Human-Machine Systems</i> , 2014 , 44, 717-730	4.1	32
170	Performance analysis of left/right hand movement classification from EEG signal by intelligent algorithms 2011 ,		31
169	EEG Analysis for Cognitive Failure Detection in Driving Using Type-2 Fuzzy Classifiers. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2017 , 1, 437-453	4.1	29
168	Secondary factor induced stock index time-series prediction using Self-Adaptive Interval Type-2 Fuzzy Sets. <i>Neurocomputing</i> , 2016 , 171, 551-568	5.4	27
167	Gesture Recognition from Indian Classical Dance Using Kinect Sensor 2013 ,		27
166	Automatic leukocyte nucleus segmentation by intuitionistic fuzzy divergence based thresholding. <i>Micron</i> , 2014 , 58, 55-65	2.3	27
165	A fast algorithm to compute precise type-2 centroids for real-time control applications. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 340-53	10.2	22
164	A heuristic algorithm for computing the max μ in inverse fuzzy relation. <i>International Journal of Approximate Reasoning</i> , 2002 , 30, 131-147	3.6	19

163	A modified Imperialist Competitive Algorithm for multi-robot stick-carrying application. <i>Robotics and Autonomous Systems</i> , 2016 , 76, 15-35	3.5	18
162	Annealed Differential Evolution 2007 ,		18
161	Spatial Information Based Image Segmentation Using a Modified Particle Swarm Optimization Algorithm 2006 ,		17
160	Bypassing the Natural Visual-Motor Pathway to Execute Complex Movement Related Tasks Using Interval Type-2 Fuzzy Sets. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 88-102	4.8	16
159	Improving the speed of convergence of multi-agent Q-learning for cooperative task-planning by a robot-team. <i>Robotics and Autonomous Systems</i> , 2017 , 92, 66-80	3.5	16
158	Olfaction recognition by EEG analysis using differential evolution induced Hopfield neural net 2013 ,		16
157	Bodily Expression for Automatic Affect Recognition 2015 , 343-377		16
156	Parameter identification of a fractional order dynamical system using particle swarm optimization technique 2008 ,		16
155	Distributed cooperative multi-robot path planning using differential evolution 2008 ,		16
154	An Efficient Algorithm to Computing MaxMin Inverse Fuzzy Relation for Abductive Reasoning. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2010 , 40, 158-169		15
153	Fuzzy L Membership Function Based Hand Gesture Recognition for Bharatanatyam Dance 2013 ,		12
152	Emotion Recognition in Naturalistic Speech and Language A Survey 2015 , 237-267		12
151	Performance analysis of ensemble methods for multi-class classification of motor imagery EEG signal 2014 ,		12
150	Artificial Bee Colony induced multi-objective optimization in presence of noise 2014 ,		12
149	Object-shape recognition from tactile images using a feed-forward neural network 2012 ,		12
148	A Two-fold classification for composite decision about localized arm movement from EEG by SVM and QDA techniques 2011 ,		12
147	Energy efficient trajectory planning by a robot arm using invasive weed optimization technique 2011 ,		12
146	Hardware Software Partitioning Problem in Embedded System Design Using Particle Swarm Optimization Algorithm 2008 ,		12

145	HMM-based gesture recognition system using kinect sensor for improvised human-computer interaction 2017,		11
144	Adaptive Firefly Algorithm for nonholonomic motion planning of car-like system 2013,		11
143	A recurrent fuzzy neural model of a gene regulatory network for knowledge extraction using differential evolution 2009,		11
142	Non-dominated Sorting Bee Colony optimization in the presence of noise. <i>Soft Computing</i> , 2016, 20, 1139-1159	3.5	10
141	Feature selection by Differential Evolution algorithm - A case study in personnel identification 2013 ,		10
140	Detection of signaling pathways in human brain during arousal of specific emotion 2014,		10
139	Hemodynamic Analysis for Cognitive Load Assessment and Classification in Motor Learning Tasks Using Type-2 Fuzzy Sets. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2019, 3, 245-260	4.1	10
138	A type-2 fuzzy classifier for gesture induced pathological disorder recognition. <i>Fuzzy Sets and Systems</i> , 2016, 305, 95-130	3.7	9
137	Automated emotion recognition employing a novel modified binary quantum-behaved gravitational search algorithm with differential mutation. <i>Expert Systems</i> , 2015, 32, 522-530	2.1	9
136	Rotation and translation selective Pareto optimal solution to the box-pushing problem by mobile robots using NSGA-II 2009,		9
135	Design of a fractional-order self-tuning regulator using optimization algorithms 2008,		9
134	Electrooculogram based blink detection to limit the risk of eye dystonia 2015,		8
133	EEG analysis for cognitive failure detection in driving using neuro-evolutionary synergism 2014,		8
132	EEG-based fuzzy cognitive load classification during logical analysis of program segments 2013,		8
131	An Adaptive Memetic Algorithm using a synergy of Differential Evolution and Learning Automata 2012,		8
130	Electrooculogram Based Online Control Signal Generation for Wheelchair 2012,		8
129	Single channel electrooculogram(EOG) based interface for mobility aid 2012,		8
128	Implementation of EEG based control of remote robotic systems 2011,		8

127	Topomorphological approach to automatic posture recognition in ballet dance. <i>IET Image Processing</i> , 2015 , 9, 1002-1011	1.7	7
126	EEG classification to determine the degree of pleasure levels in touch-perception of human subjects 2015 ,		7
125	Emotion Recognition in Car Industry 2015 , 515-544		7
124	Object shape recognition from tactile images using regional descriptors 2012 ,		7
123	Fuzzy image matching for posture recognition in ballet dance 2013 ,		7
122	A Study of the Grunwald-Letnikov Definition for Minimizing the Effects of Random Noise on Fractional Order Differential Equations 2008 ,		7
121	Distance matching based gesture recognition for healthcare using Microsoft's Kinect sensor 2016 ,		7
120	Learning automata induced artificial bee colony for noisy optimization 2017 ,		6
119	Semantic Audiovisual Data Fusion for Automatic Emotion Recognition 2015 , 411-435		6
118	Building a Robust System for Multimodal Emotion Recognition 2015 , 379-410		6
117	Bharatanatyam hand gesture recognition using polygon representation 2014 ,		6
116	EEG driven model predictive position control of an artificial limb using neural net 2012 ,		6
115	ABC-TDQL: An adaptive memetic algorithm 2013 ,		6
114	Secondary membership evaluation in Generalized Type-2 Fuzzy Sets by evolutionary optimization algorithm 2013 ,		6
113	A neural network based approach for protein structural class prediction. <i>Journal of Intelligent and Fuzzy Systems</i> , 2009 , 20, 61-71	1.6	6
112	Texture- and deformability-based surface recognition by tactile image analysis. <i>Medical and Biological Engineering and Computing</i> , 2016 , 54, 1269-83	3.1	6
111	Performance enhancement of object shape classification by coupling tactile sensing with EEG 2014 ,		5
110	Electrooculography based blink detection to prevent Computer Vision Syndrome 2014 ,		5

109	Extending the Contraposition Property of Propositional Logic for Fuzzy Abduction. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 719-734	8.3	5
108	A bacterial foraging optimization and learning automata based feature selection for motor imagery EEG classification 2014 ,		5
107	Development of hedge operator based fuzzy divergence measure and its application in segmentation of chronic myelogenous leukocytes from microscopic image of peripheral blood smear. <i>Micron</i> , 2014 , 57, 41-55	2.3	5
106	Object-shape classification and reconstruction from tactile images using image gradient 2012 ,		5
105	Identification of Odissi dance video using Kinect sensor 2013 ,		5
104	Detecting eye movement direction from stimulated Electro-oculogram by intelligent algorithms 2012 ,		5
103	A novel approach for complete identification of dynamic fractional order systems using stochastic optimization algorithms and fractional calculus 2008 ,		5
102	Vibrotactile feedback for conveying object shape information as perceived by artificial sensing of robotic arm. <i>Cognitive Neurodynamics</i> , 2016 , 10, 327-38	4.2	5
101	Triangular membership function based real-time gesture monitoring system for physical disorder detection. <i>Computing and Visualization in Science</i> , 2019 , 22, 1-14	1	5
100	Arduino based multi-robot stick carrying by Artificial Bee Colony optimization algorithm 2015 ,		4
99	EEG source localization by memory network analysis of subjects engaged in perceiving emotions from facial expressions 2015 ,		4
98	Exploration of Subjective Color Perceptual-Ability by EEG-Induced Type-2 Fuzzy Classifiers. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2020 , 12, 618-635	3	4
97	Gesture based improved human-computer interaction using Microsoft's Kinect sensor 2016 ,		4
96	Multi-agent reinforcement learning for stochastic power management in cognitive radio network 2016 ,		4
95	Comparison between type-1 fuzzy membership functions for sign language applications 2016 ,		4
94	A type-2 fuzzy approach towards cognitive load detection using fNIRS signals 2016 ,		4
93	EEG-based mind driven type writer by fuzzy radial basis function neural classifier 2016 ,		4
92	Decoding of wrist and finger movement from electroencephalography signal 2014 ,		4

91	OBJECT-SHAPE RECOGNITION BY TACTILE IMAGE ANALYSIS USING SUPPORT VECTOR MACHINE. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2014 , 28, 1450011	1.1	4
90	An EEG-based cognitive failure detection in driving using two-stage motor intension classifier 2014 ,		4
89	Linear phase low pass FIR filter design using Genetic Particle Swarm Optimization with dynamically varying neighbourhood technique 2012 ,		4
88	Emotion recognition from facial expression using general type-2 fuzzy set 2011 ,		4
87	Evolutionary approach for selection of optimal EEG electrode positions and features for classification of cognitive tasks 2016 ,		4
86	EEG based gesture mimicking by an artificial limb using cascade-correlation learning architecture 2016 ,		3
85	A Multilevel Fusion Approach for Audiovisual Emotion Recognition 2015 , 437-460		3
84	Emotion Recognition from Non-Frontal Facial Images 2015 , 183-213		3
83	Type-2 fuzzy induced non-dominated sorting bee colony for noisy optimization 2015 ,		3
82	Person identification using Kinect sensor 2014 ,		3
81	Selecting the optimal EEG electrode positions for a cognitive task using an Artificial Bee Colony with Adaptive Scale Factor optimization algorithm 2014 ,		3
80	Object shape and size recognition from tactile images 2013 ,		3
79	Differential evolution with temporal difference Q-learning based feature selection for motor imagery EEG data 2013 ,		3
78	Emotion control by audio-visual stimulus using fuzzy automata 2010 ,		3
77	Multi-robot box-pushing in presence of measurement noise 2016 ,		3
76	An Efficient Computing of Correlated Equilibrium for Cooperative \$Q\$-\$Q\$-Learning-Based Multi-Robot Planning. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 1-16	7.3	3
75	Decoding emotional changes of android-gamers using a fused Type-2 fuzzy deep neural network. <i>Computers in Human Behavior</i> , 2021 , 116, 106640	7.7	3
74	Uncertainty Management by Feature Space Tuning for Single-Trial P300 Detection. <i>International Journal of Fuzzy Systems</i> , 2019 , 21, 916-929	3.6	2

73	ELECTROOCULOGRAPHY BASED READING SPEED ANALYSIS AS AN ASSISTIVE TOOL. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2015 , 27, 1550016	0.6	2
72	Real-time surface material identification using infrared sensor to control speed of an arduino based car like mobile robot 2015 ,		2
71	A Functional-Near-Infrared-Spectroscopy-Based Evaluation of Cognitive Lagging From Prefrontal Hemodynamics 2020 , 4, 1-4		2
70	Prediction of protein-protein interaction network using a multi-objective optimization approach. <i>Journal of Bioinformatics and Computational Biology</i> , 2016 , 14, 1650008	1	2
69	Working memory modeling using inverse fuzzy relational approach. <i>Applied Soft Computing Journal</i> , 2019 , 83, 105591	7.5	2
68	Decoding of motor imagery potentials in driving using DE-induced fuzzy-neural classifier 2015 ,		2
67	A study on leg posture recognition from Indian classical dance using Kinect sensor 2013 ,		2
66	Introduction to Emotion Recognition 2015 , 1-45		2
65	Facial Expressions: A Cross-Cultural Study 2015 , 69-87		2
64	EEG driven artificial limb control using state feedback PI controller 2012 ,		2
63	Stabilization of cluster centers over fuzziness control parameter in component-wise Fuzzy c-Means clustering 2013 ,		2
62	A hierarchical algorithm for fuzzy template matching in emotional facial images. <i>Journal of Intelligent and Fuzzy Systems</i> , 2013 , 24, 201-214	1.6	2
61	CAM based high-speed compressed data communication system development using FPGA 2009 ,		2
60	Path-planning of mobile agent using Q-learning and real-time communication in an unfavourable situation 2012 ,		2
59	Extraction of interaction information among genes from gene expression time series data 2009 ,		2
58	Building 3-D Visual Perception of a Mobile Robot Employing Extended Kalman Filter. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2002 , 34, 99-120	2.9	2
57	A HYBRID APPROACH TO KNOWLEDGE ACQUISITION USING NEURAL PETRI NETS AND DS THEORY. <i>International Journal of Computational Intelligence and Applications</i> , 2001 , 01, 203-223	1.2	2
56	Bi-directional Long Short-Term Memory model to analyze psychological effects on gamers. <i>Applied Soft Computing Journal</i> , 2020 , 95, 106573	7.5	2

55	P200 and N400 Induced Aesthetic Quality Assessment of an Actor Using Type-2 Fuzzy Reasoning 2020,		2
54	A novel approach to American sign language recognition using MAdaline neural network 2016,		2
53	Mimicking Short-Term Memory in Shape-Reconstruction Task Using an EEG-Induced Type-2 Fuzzy Deep Brain Learning Network. <i>IEEE Transactions on Emerging Topics in Computational Intelligence,</i> 2020, 4, 571-588	4.1	2
52	Brain-computer interfacing for bio-perceptive and rehabilitative applications 2015,		1
51	Optimal Selection of EEG Electrodes Using Interval Type-2 Fuzzy-Logic-Based Semiseparating Signaling Game. <i>IEEE Transactions on Cybernetics,</i> 2020,	10.2	1
50	Fuzzy rule enhanced support vector machines for classification of emotions from brain networks 2016,		1
49	A novel gesture recognition system based on fuzzy logic for healthcare applications 2016,		1
48	Knowledge extraction from a time-series using segmentation, fuzzy matching and predictor graphs 2016,		1
47	Modified Selection and Search in Learning Automata Based Artificial Bee Colony in Noisy Environment 2019,		1
46	Posture recognition in ballet dance a case study on fuzzy uniform discrete membership function 2014,		1
45	Data-point and feature selection of motor imagery EEG signals for neural classification of cognitive tasks in car-driving 2015,		1
44	3-D model assisted facial error concealment technique using regenerative particle filter based tracking 2013,		1
43	Differential evolution induced many objective optimization 2017,		1
42	Implementation of gesture driven virtual reality for car racing game using back propagation neural network 2017,		1
41	Frequency Band Localization on Multiple Physiological Signals for Human Emotion Classification Using DWT 2015, 295-313		1
40	EEG-Based Emotion Recognition Using Advanced Signal Processing Techniques 2015, 269-293		1
39	From a Discrete Perspective of Emotions to Continuous, Dynamic, and Multimodal Affect Sensing 2015, 461-491		1
38	Exploiting Dynamic Dependencies Among Action Units for Spontaneous Facial Action Recognition 2015, 47-67		1

37	Electrooculogram based cognitive context recognition 2014 ,		1
36	Object shape recognition from EEG signals with tactile, visuo-tactile and audio-tactile stimuli 2014 ,		1
35	Study of inter-session variability of long term memory and complexity of EEG signals 2012 ,		1
34	Clustering using vector membership: An extension of the Fuzzy C-Means algorithm 2013 ,		1
33	Fast and Efficient Circle Detection Schemes for Digital Image 2008 ,		1
32	Deterministic Model for Analyzing the Dynamics of Ant System Algorithm and Performance Amelioration through a New Pheromone Deposition Approach 2008 ,		1
31	Migration in Multi-Population Differential Evolution for Many Objective Optimization 2020 ,		1
30	A meta-heuristic approach to predict protein-protein interaction network 2016 ,		1
29	EEG-induced Probabilistic Prediction of the Color-Pathways in the Brain using Dempster-Shafer Theory 2019 ,		1
28	Phase-Sensitive Common Spatial Pattern for EEG Classification 2019 ,		1
27	Decoding of EEG Signals Using Deep Long Short-Term Memory Network in Face Recognition Task 2018 ,		1
26	Understanding the Biological Underpinning of Auditory Perception for Vowel Sounds Using a Type-2 Fuzzy Neural Network 2018 ,		1
25	Prediction of Protein Complexes Using an Evolutionary Approach 2018 ,		1
24	Evolutionary Approach to Straight Line Approximation for Image Matching in Dance-Posture Recognition 2018 ,		1
23	Toward Affective Brain-Computer Interface: Fundamentals and Analysis of EEG-Based Emotion Classification 2015 , 315-341		0
22	A NEW APPROACH TO EMOTION RECOGNITION FROM THE LIP CONTOUR OF A SUBJECT. <i>International Journal on Artificial Intelligence Tools</i> , 2012 , 21, 1240002	0.9	0
21	EEG-Induced Autonomous Game-Teaching to a Robot Arm by Human Trainers Using Reinforcement Learning. <i>IEEE Transactions on Games</i> , 2021 , 1-1	1.2	0
20	Fuzzy vector quantization with a step-optimizer to improve pattern classification. <i>Expert Systems With Applications</i> , 2021 , 115941	7.8	0

- 19 Fuzzy logic and differential evolution-based hybrid system for gesture recognition using Kinect sensor. *Expert Systems*, **2017**, 34, e12210 2.1
- 18 A Subject-Dependent Facial Expression Recognition System **2015**, 89-112
- 17 Audiovisual Emotion Recognition Using Semi-Coupled Hidden Markov Model with State-Based Alignment Strategy **2015**, 493-513
- 16 Facial Expression Recognition Using Independent Component Features and Hidden Markov Model **2015**, 113-128
- 15 Feature Selection for Facial Expression Based on Rough Set Theory **2015**, 129-145
- 14 Emotion Recognition from Facial Expressions Using Type-2 Fuzzy Sets **2015**, 147-182
- 13 Maximum a Posteriori Based Fusion Method for Speech Emotion Recognition **2015**, 215-235
- 12 An evolutionary approach to velocity and traffic sensitive call admission control. *Intelligent Decision Technologies*, **2011**, 5, 357-369 0.7
- 11 Design of a high speed logic engine for distributed decision support systems. *Intelligent Decision Technologies*, **2007**, 1, 139-155 0.7
- 10 AN INTRODUCTION TO SOFT COMPUTING. *Science, Engineering, and Biology Informatics*, **2007**, 25-56
- 9 A Dynamical Phase Synchronization Based Approach to Study the Effects of Long-Term Alcoholism on Functional Connectivity Dynamics. *Lecture Notes in Computer Science*, **2019**, 218-226 0.9
- 8 Quantitative Analysis of Cognitive Load Test While Driving in a VR vs Non-VR Environment. *Lecture Notes in Computer Science*, **2019**, 481-489 0.9
- 7 Working Memory Modeling Using Inverse Fuzzy Relational Approach **2020**, 51-91
- 6 EEG Analysis for Subjective Assessment of Motor Learning Skill in Driving Using Type-2 Fuzzy Reasoning **2020**, 137-174
- 5 Conclusions and Future Directions of Research on BCI-Based Memory and Learning **2020**, 239-245
- 4 Cognitive Load Assessment in Motor Learning Tasks by Near-Infrared Spectroscopy Using Type-2 Fuzzy Sets **2020**, 203-237
- 3 Introduction to Brain-Inspired Memory and Learning Models **2020**, 1-50
- 2 Short-Term Memory Modeling in Shape-Recognition Task by Type-2 Fuzzy Deep Brain Learning **2020**, 93-136

- 1 EEG Analysis to Decode Human Memory Responses in Face Recognition Task Using Deep LSTM Network **2020**, 175-202