

# Fakhri Karray

## List of Publications by Year in descending order

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Version: 2024-02-01

106  
papers

4,380  
citations

304602

22  
h-index

214721

47  
g-index

106  
all docs

106  
docs citations

106  
times ranked

4123  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward durable representations for continual learning. <i>Advances in Computational Intelligence</i> , 2022, 2, 1.	0.7	0
2	On the philosophical, cognitive and mathematical foundations of symbiotic autonomous systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200362.	1.6	21
3	Exploring Convolutional Recurrent architectures for anomaly detection in videos: a comparative study. <i>Discover Artificial Intelligence</i> , 2021, 1, 1.	2.1	3
4	A Review on Deep Learning Techniques for the Diagnosis of Novel Coronavirus (COVID-19). <i>IEEE Access</i> , 2021, 9, 30551-30572.	2.6	206
5	Smart Healthcare in the Age of AI: Recent Advances, Challenges, and Future Prospects. <i>IEEE Access</i> , 2021, 9, 145248-145270.	2.6	64
6	A survey on vision-based driver distraction analysis. <i>Journal of Systems Architecture</i> , 2021, 121, 102319.	2.5	20
7	Deep Learning Approach for Forecasting Apple Yield using Soil Parameters*. , 2021, , .		0
8	Evaluation of Imputation Models Based on the Enhancement to Yield Forecasting. , 2021, , .		0
9	AutoEncoder regularization using Support Vector Data Description for Anomaly Detection. , 2021, , .		0
10	Driver Inattention Detection in the Context of Next-Generation Autonomous Vehicles Design: A Survey. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 4483-4496.	4.7	26
11	Deep Learning Based Approach for Fresh Produce Market Price Prediction. , 2020, , .		14
12	Prediction of Strawberry Yield and Farm Price Utilizing Deep Learning. , 2020, , .		15
13	Fisher Discriminant Triplet and Contrastive Losses for Training Siamese Networks. , 2020, , .		19
14	Enhancing Driver Distraction Recognition Using Generative Adversarial Networks. <i>IEEE Transactions on Intelligent Vehicles</i> , 2020, 5, 385-396.	9.4	24
15	Deep Learning-Based Driving Maneuver Prediction System. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 1328-1340.	3.9	23
16	Human Machine Interaction Platform for Home Care Support System. , 2020, , .		5
17	Overview of the crowdsourcing process. <i>Knowledge and Information Systems</i> , 2019, 60, 1-24.	2.1	24
18	Preempting Catastrophic Forgetting in Continual Learning Models by Anticipatory Regularization. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
19	A Novel Bio-Inspired Method for Early Diagnosis of Breast Cancer through Mammographic Image Analysis. Applied Sciences (Switzerland), 2019, 9, 4492.	1.3	6
20	New EMS to Incorporate Smart Parking Lots Into Demand Response. IEEE Transactions on Smart Grid, 2018, 9, 1376-1386.	6.2	32
21	Predicting Steering Actions for Self-Driving Cars Through Deep Learning. , 2018, , .		5
22	Non-Stationary Traffic Flow Prediction Using Deep Learning. , 2018, , .		1
23	Driver Behavior Monitoring Using Tools of Deep Learning and Fuzzy Inferencing. , 2018, , .		14
24	Methods to Improve Multi-Step Time Series Prediction. , 2018, , .		5
25	New Results on Neutral Type Fuzzy Based Cellular Neural Networks. , 2018, , .		2
26	Nonnegative Matrix Factorization Using Autoencoders And Exponentiated Gradient Descent. , 2018, , .		2
27	Transfer Learning Based Strategy for Improving Driver Distraction Recognition. Lecture Notes in Computer Science, 2018, , 443-452.	1.0	8
28	Managing Demand for Plug-in Electric Vehicles in Unbalanced LV Systems With Photovoltaics. IEEE Transactions on Industrial Informatics, 2017, 13, 1057-1067.	7.2	66
29	End-to-End Deep Learning for Driver Distraction Recognition. Lecture Notes in Computer Science, 2017, , 11-18.	1.0	53
30	Game theoretic Fuzzy Multi-Entity Bayesian Networks for collision avoidance in VANETs. , 2016, , .		3
31	Fuzzy Logic in VANET context aware Congested Road and Automatic Crash Notification. , 2016, , .		6
32	Big-data-generated traffic flow prediction using deep learning and Dempster-Shafer theory. , 2016, , .		44
33	Online Intelligent Demand Management of Plug-In Electric Vehicles in Future Smart Parking Lots. IEEE Systems Journal, 2016, 10, 483-494.	2.9	91
34	VANET IR-CAS for Safety ACN: Information Retrieval Context Aware System for VANET Automatic Crash Notification Safety Application. International Journal of Intelligent Transportation Systems Research, 2016, 14, 127-138.	0.6	8
35	A Multi-Modal Driver Fatigue and Distraction Assessment System. International Journal of Intelligent Transportation Systems Research, 2016, 14, 173-194.	0.6	50
36	Driver Inattention Detection System: A PSO-Based Multiview Classification Approach. , 2015, , .		4

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37	VANET IR-CAS for Commercial SA: Information Retrieval Context Aware System for VANET Commercial Service Announcement. International Journal of Intelligent Transportation Systems Research, 2015, 13, 37-49.	0.6	4
38	Source-reliability-adaptive distributed information fusion. , 2014, , .		0
39	A Fuzzy Logic Approach to Assess, Manage, and Communicate Carcinogenic Risk. Human and Ecological Risk Assessment (HERA), 2014, 20, 1687-1707.	1.7	6
40	Fuzzy multi entity Bayesian networks: A model for imprecise knowledge representation and reasoning in high-level information fusion. , 2014, , .		4
41	Toward Necessity of Parametric Conditions for Monotonic Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2014, 22, 465-468.	6.5	16
42	Multiview Supervised Dictionary Learning in Speech Emotion Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 1056-1068.	4.0	48
43	A Visual-Based Driver Distraction Recognition and Detection Using Random Forest. Lecture Notes in Computer Science, 2014, , 256-265.	1.0	17
44	An efficient concept-based retrieval model for enhancing text retrieval quality. Knowledge and Information Systems, 2013, 35, 411-434.	2.1	15
45	Adaptive Budget for Online Learning. , 2013, , .		0
46	Continuous Emotion Recognition: Another Look at the Regression Problem. , 2013, , .		1
47	Car driver fatigue monitoring using Hidden Markov Models and Bayesian networks. , 2013, , .		4
48	Detecting Optic Disc on Asians by Multiscale Gaussian Filtering. International Journal of Biomedical Imaging, 2012, 2012, 1-10.	3.0	3
49	Automatic Document Topic Identification using Wikipedia Hierarchical Ontology. , 2012, , .		11
50	Necessity of parametric conditions for monotonic TSK fuzzy systems. , 2012, , .		0
51	Dimensionality Reduction for Emotional Speech Recognition. , 2012, , .		20
52	Human-centered multi-target tracking: A Random Set theoretic approach. , 2012, , .		2
53	Model order selection for multiple cooperative swarms clustering using stability analysis. Information Sciences, 2012, 182, 169-183.	4.0	11
54	Sparse Representation Classifier for microaneurysm detection and retinal blood vessel extraction. Information Sciences, 2012, 200, 78-90.	4.0	74

#	ARTICLE	IF	CITATIONS
55	Featuresâ€™ Weight Learning towards Improved Query Classification. Lecture Notes in Computer Science, 2012, , 184-191.	1.0	0
56	Visual Attention for Robotic Cognition: A Survey. IEEE Transactions on Autonomous Mental Development, 2011, 3, 92-105.	2.3	57
57	Survey on speech emotion recognition: Features, classification schemes, and databases. Pattern Recognition, 2011, 44, 572-587.	5.1	1,572
58	Audio-Based Emotion Recognition from Natural Conversations Based on Co-Occurrence Matrix and Frequency Domain Energy Distribution Features. Lecture Notes in Computer Science, 2011, , 407-414.	1.0	7
59	AN EFFICIENT MODEL FOR ENHANCING TEXT CATEGORIZATION USING SENTENCE SEMANTICS. Computational Intelligence, 2010, 26, 215-231.	2.1	9
60	Flocking based approach for data clustering. Natural Computing, 2010, 9, 767-791.	1.8	25
61	Cumulative Update of All-Terminal Reliability for Faster Feasibility Decision. IEEE Transactions on Reliability, 2010, 59, 551-562.	3.5	36
62	Retinopathy Online Challenge: Automatic Detection of Microaneurysms in Digital Color Fundus Photographs. IEEE Transactions on Medical Imaging, 2010, 29, 185-195.	5.4	414
63	Detection of microaneurysms using multi-scale correlation coefficients. Pattern Recognition, 2010, 43, 2237-2248.	5.1	197
64	Retinal vessel extraction by matched filter with first-order derivative of Gaussian. Computers in Biology and Medicine, 2010, 40, 438-445.	3.9	444
65	An Efficient Method for Tagging a Query with Category Labels Using Wikipedia towards Enhancing Search Engine Results. , 2010, , .		5
66	An Efficient Concept-Based Mining Model for Enhancing Text Clustering. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 1360-1371.	4.0	84
67	A Probabilistic Model of Overt Visual Attention for Cognitive Robots. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 1305-1318.	5.5	23
68	Systems combination in large vocabulary continuous speech recognition. , 2010, , .		2
69	Microaneurysm (MA) Detection via Sparse Representation Classifier with MA and Non-MA Dictionary Learning. , 2010, , .		8
70	Optic Disc Detection by Multi-scale Gaussian Filtering with Scale Production and a Vesselsâ€™ Directional Matched Filter. Lecture Notes in Computer Science, 2010, , 173-180.	1.0	8
71	Retinal Vessel Centerline Extraction Using Multiscale Matched Filter and Sparse Representation-Based Classifier. Lecture Notes in Computer Science, 2010, , 181-190.	1.0	2
72	Hierarchical detection of red lesions in retinal images by multiscale correlation filtering. Proceedings of SPIE, 2009, , .	0.8	17

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73	Comparison of GMM and fuzzy-GMM applied to phoneme classification. , 2009, , .		2
74	Collaborative architecture for distributed intrusion detection system. , 2009, , .		7
75	Features Selection for Intrusion Detection Systems Based on Support Vector Machines. , 2009, , .		48
76	Features Selection Using Fuzzy ESVDf for Data Dimensionality Reduction. , 2009, , .		9
77	Fuzzy ESVDf Approach for Intrusion Detection Systems. , 2009, , .		6
78	Re-mapping of visual saliency in overt attention: A particle filter approach for robotic systems. , 2009, , .		3
79	Combined speech decoders output for phoneme recognition enhancement. , 2009, , .		0
80	TCP/IP Model and Intrusion Detection Systems. , 2009, , .		5
81	A probabilistic approach for attention-based multi-modal human-robot interaction. , 2009, , .		4
82	Stability-Based Model Order Selection for Clustering Using Multiple Cooperative Particle Swarms. Studies in Computational Intelligence, 2009, , 197-218.	0.7	0
83	Toward a tight upper bound for the error probability of the binary Gaussian classification problem. Pattern Recognition, 2008, 41, 2120-2132.	5.1	11
84	An evolutionary approach for accent classification in IVR systems. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	4
85	Object- and space-based visual attention: An integrated framework for autonomous robots. , 2008, , .		3
86	Enhancing the structure and parameters of the centers for BBF Fuzzy Neural Network classifier construction based on data structure. , 2008, , .		9
87	Model order selection for multiple cooperative swarms clustering using stability analysis. , 2008, , .		2
88	Non-dominated Sorting Evolution Strategy-based K-means clustering algorithm for accent classification. , 2008, , .		0
89	Enhancing Text Categorization Using Sentence Semantics. Lecture Notes in Computer Science, 2008, , 87-98.	1.0	2
90	Cooperative Swarms for Clustering Phoneme Data. , 2007, , .		4

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91	Speaker Accent Classification System Using a Fuzzy Gaussian Classifier. , 2007, , .		3
92	Enhancing Search Engine Quality Using Concept-based Text Retrieval. , 2007, , .		15
93	Speaker Accent Classification Using Distance Metric Learning Approach. , 2007, , .		3
94	A concept-based model for enhancing text categorization. , 2007, , .		49
95	Speech Emotion Recognition using Gaussian Mixture Vector Autoregressive Models. , 2007, , .		50
96	Multiple Cooperating Swarms for Data Clustering. , 2007, , .		15
97	Semantic Understanding of General Linguistic Items by Means of Fuzzy Set Theory. IEEE Transactions on Fuzzy Systems, 2007, 15, 757-771.	6.5	8
98	Hybrid learning scheme for modular-based phoneme recognizer. , 2007, , .		0
99	Soft computing-based approach for natural language call routing systems. , 2007, , .		2
100	Hybrid Feature Selection Approach for Natural Language Call Routing Systems. , 2007, , .		0
101	Speaker Accent Classification System using Fuzzy Canonical Correlation-Based Gaussian Classifier. , 2007, , .		1
102	Modular-Based Classifier for Phoneme Recognition. , 2006, , .		3
103	Enhancing Text Retrieval Performance using Conceptual Ontological Graph. , 2006, , .		13
104	Enhancing Text Clustering Using Concept-based Mining Model. IEEE International Conference on Data Mining, 2006, , .	0.0	39
105	Connectionist-Based Dempsterâ€“Shafer Evidential Reasoning for Data Fusion. IEEE Transactions on Neural Networks, 2005, 16, 1513-1530.	4.8	44
106	Wrapper Components for Distributed Robotic Systems. Lecture Notes in Computer Science, 2004, , 882-891.	1.0	1