Erhan Akin

List of Publications by Year
in descending order

73 papers	1,531 citations	566801 15 h-index	580395 25 g-index
73 all docs	73 docs citations	73 times ranked	1272 citing authors

#	Article	IF	Citations
1	A multi-objective artificial immune algorithm for parameter optimization in support vector machine. Applied Soft Computing Journal, 2011, 11, 120-129.	4.1	174
2	An effect analysis of industry 4.0 to higher education. , 2016, , .		100
3	A New Experimental Approach Using Image Processing-Based Tracking for an Efficient Fault Diagnosis in Pantographâ€“Catenary Systems. IEEE Transactions on Industrial Informatics, 2017, 13, 635-643.	7.2	93
4	An efficient genetic algorithm for automated mining of both positive and negative quantitative association rules. Soft Computing, 2006, 10, 230-237.	2.1	81
5	Chaotic-based hybrid negative selection algorithm and its applications in fault and anomaly detection. Expert Systems With Applications, 2010, 37, 5285-5294.	4.4	74
6	Anomaly detection using a modified kernel-based tracking in the pantographâ€“catenary system. Expert Systems With Applications, 2015, 42, 938-948.	4.4	67
7	Rough particle swarm optimization and its applications in data mining. Soft Computing, 2008, 12, 1205-1218.	2.1	62
8	An approach for automated fault diagnosis based on a fuzzy decision tree and boundary analysis of a reconstructed phase space. ISA Transactions, 2014, 53, 220-229.	3.1	52
9	A New Computer Vision Based Method for Rail Track Detection and Fault Diagnosis in Railways. International Journal of Mechanical Engineering and Robotics Research, 2017, , 22-27.	0.7	51
10	A new arc detection method based on fuzzy logic using S-transform for pantographâ€“catenary systems. Journal of Intelligent Manufacturing, 2018, 29, 839-856.	4.4	47
11	Combined intelligent methods based on wireless sensor networks for condition monitoring and fault diagnosis. Journal of Intelligent Manufacturing, 2015, 26, 717-729.	4.4	46
12	A Robust Anomaly Detection in Pantograph-Catenary System Based on Mean-Shift Tracking and Foreground Detection. , 2013, , .		41
13	Fuzzy Based Reconfiguration Method Using Intelligent Partial Shadow Detection in PV Arrays*. International Journal of Computational Intelligence Systems, 2016, 9, 202.	1.6	39
14	Defect classification based on deep features for railway tracks in sustainable transportation. Applied Soft Computing Journal, 2021, 111, 107706.	4.1	36
15	Machine vision based defect detection approach using image processing. , 2017, , .		34
16	An adaptive artificial immune system for fault classification. Journal of Intelligent Manufacturing, 2012, 23, 1489-1499.	4.4	32
17	A new computer vision approach for active pantograph control. , 2013, , .		27
18	A new rail inspection method based on deep learning using laser cameras. , 2017, , .		27

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19	Artificial immune classifier with swarm learning. Engineering Applications of Artificial Intelligence, 2010, 23, 1291-1302.	4.3	25
20	A New Approach for Condition Monitoring and Detection of Rail Components and Rail Track in Railway*. International Journal of Computational Intelligence Systems, 2018, 11, 830.	1.6	24
21	Rail defect detection with real time image processing technique. , 2016, , .		20
22	Artificial immune inspired fault detection algorithm based on fuzzy clustering and genetic algorithm methods. , 2008, , .		19
23	A Deep Learning Based Method for Detecting of Wear on the Current Collector Stripsâ€™ Surfaces of the Pantograph in Railways. IEEE Access, 2020, 8, 183799-183812.	2.6	19
24	A vision based traffic light detection and recognition approach for intelligent vehicles. , 2017, , .		17
25	FPGA based Hardware-in-the-Loop (HIL) simulation of induction machine model. , 2014, , .		16
26	An intelligent reconfiguration approach based on fuzzy partitioning in PV arrays. , 2014, , .		16
27	IMU based adaptive blur removal approach using image processing for railway inspection. , 2016, , .		15
28	A Fast and Adaptive Road Defect Detection Approach Using Computer Vision with Real Time Implementation. International Journal of Applied Mathematics Electronics and Computers, 0, , 290-290.	0.6	15
29	FPGA based intelligent condition monitoring of induction motors: Detection, diagnosis, and prognosis. , 2011, , .		14
30	Condition Monitoring Platform in Railways Based on Iot. , 2018, , .		14
31	A Vision Based Condition Monitoring Approach for Rail Switch and Level Crossing using Hierarchical SVM in Railways. International Journal of Applied Mathematics Electronics and Computers, 0, , 319-319.	0.6	14
32	Learning Based Experimental Approach For Condition Monitoring Using Laser Cameras In Railway Tracks. International Journal of Applied Mathematics Electronics and Computers, 2016, 4, 1-1.	0.6	13
33	Detection of pantograph geometric model based on fuzzy logic and image processing. , 2014, , .		12
34	An adaptive fault diagnosis approach using pipeline implementation for railway inspection. Turkish Journal of Electrical Engineering and Computer Sciences, 2018, 26, 987-998.	0.9	12
35	Chaos Control in Vector-controlled Induction Motor Drive. Electric Power Components and Systems, 2008, 36, 733-740.	1.0	11
36	Image processing and model based arc detection in pantograph catenary systems. , 2014, , .		11

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37	Image processing based traffic sign detection and recognition with fuzzy integral. , 2016, , .		11
38	A vision based diagnosis approach for multi rail surface faults using fuzzy classificiation in railways. , 2017, , .		11
39	A new method for time series classification using multi-dimensional phase space and a statistical control chart. Neural Computing and Applications, 2020, 32, 7439-7453.	3.2	11
40	Real time FPGA implementation of induction machine model - a novel approach. , 2007, , .		9
41	Image processing based fault detection approach for rail surface. , 2015, , .		9
42	Improvement of relative accreditation methods based on data mining and artificial intelligence for higher education. , 2016, , .		9
43	A New Approach for Baggage Inspection by using Deep Convolutional Neural Networks. , 2018, , .		9
44	Improving of personal educational content using big data approach for mooc in higher education. , 2016, , .		8
45	Sine-square embedded fuzzy sets versus type-2 fuzzy sets. Advanced Engineering Informatics, 2018, 36, 43-54.	4.0	8
46	Detection of rail faults using morphological feature extraction based image processing. , 2015, , .		7
47	Chouqet fuzzy integral based condition monitoring and analysis approach using simulation framework for rail faults. , 2016, , .		7
48	A real time interface for vision inspection of rail components and surface in railways. , 2017, , .		6
49	Generation of classification rules using artificial immune system for fault diagnosis. , 2010, , .		5
50	A vision based inspection system using gaussian mixture model based interactive segmentation. , 2017, , .		5
51	A new fault diagnosis approach for induction motor using negative selection algorithm and its real-time implementation on FPGA. Journal of Intelligent and Fuzzy Systems, 2018, 34, 689-701.	0.8	5
52	A New Approach Based on Predictive Maintenance Using the Fuzzy Classifier in Pantograph-Catenary Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4236-4246.	4.7	5
53	Real time implementation for fault diagnosis and condition monitoring approach using image processing in railway switches. International Journal of Applied Mathematics Electronics and Computers, 0, , 307-307.	0.6	4
54	An Artifical Management Platform Based on Deep Learning Using Cloud Computing for Smart Cities. International Journal of Applied Mathematics Electronics and Computers, 2017, 1, 24-28.	0.6	4

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55	A new real-time fuzzy logic based diagnosis of stator faults for inverter-fed induction motor under low speeds. , 2016, , .		3
56	Big data framework for rail inspection. , 2017, , .		3
57	Defect Diagnosis of Rolling Element Bearing using Deep Learning. , 2018, , .		3
58	Bearing Fault Diagnosis in Traction Motor Using the Features Extracted from Filtered Signals. , 2019, , .		3
59	Development of Vision-Based Autonomous UAV for Railway Tracking. , 2021, , .		3
60	FPGA based real time fuzzy fault detection algorithm. , 2010, , .		2
61	Vibration Signal Processing Based Bearing Defect Diagnosis with Transfer Learning. , 2019, , .		2
62	Detection of Pantograph Collector Strips Using Correlation Method. , 2019, , .		2
63	Fuzzy PID Based Autonomous UAV Design for Railway Tracking. , 2021, , .		2
64	Transfer Learning Based Fault Detection Approach for Rail Components. , 2022, , .		2
65	A new object detection and classification method for quality control based on segmentation and geometric features. , 2017, , .		1
66	Determination of the Optimum Number of Cameras for Monitoring In Smart Cities. , 2018, , .		1
67	Two-Stage Rail Defect Classification Based on Fuzzy Measure and Convolutional Neural Networks. Lecture Notes in Networks and Systems, 2022, , 769-776.	0.5	1
68	s-Domain analysis of lightning surges in three-phase systems using nonuniform single-phase line model. Electrical Engineering, 2005, 87, 253-259.	1.2	0
69	A new approach based on boundary analysis of reconstructed phase space for fault diagnosis. , 2013, , .		0
70	Dynamic Behavior analysis of PV cell With Lyapunov exponents. , 2015, , .		0
71	Edge control approach based on image processing in paper and packaging production. , 2017, , .		0
72	A Novel Method Based on Deep Learning and Image Processing Techniques for Wearing Inspection on the Pantograph Surface. , 2021, , .		0

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73	A New Bearing Fault Diagnosis Method using Envelope based Feature Extraction. , 2021, , .		0