

Erhan Akin

List of Publications by Year in descending order

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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 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
2	Transfer Learning Based Fault Detection Approach for Rail Components. , 2022, , .		2
3	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
4	Fuzzy PID Based Autonomous UAV Design for Railway Tracking. , 2021, , .		2
5	Defect classification based on deep features for railway tracks in sustainable transportation. Applied Soft Computing Journal, 2021, 111, 107706.	4.1	36
6	Development of Vision-Based Autonomous UAV for Railway Tracking. , 2021, , .		3
7	A Novel Method Based on Deep Learning and Image Processing Techniques for Wearing Inspection on the Pantograph Surface. , 2021, , .		0
8	A New Bearing Fault Diagnosis Method using Envelope based Feature Extraction. , 2021, , .		0
9	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
10	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
11	Bearing Fault Diagnosis in Traction Motor Using the Features Extracted from Filtered Signals. , 2019, , .		3
12	Vibration Signal Processing Based Bearing Defect Diagnosis with Transfer Learning. , 2019, , .		2
13	Detection of Pantograph Collector Strips Using Correlation Method. , 2019, , .		2
14	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
15	Sine-square embedded fuzzy sets versus type-2 fuzzy sets. Advanced Engineering Informatics, 2018, 36, 43-54.	4.0	8
16	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
17	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
18	Defect Diagnosis of Rolling Element Bearing using Deep Learning. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Determination of the Optimum Number of Cameras for Monitoring In Smart Cities. , 2018, , .		1
20	Condition Monitoring Platform in Railways Based on Iot. , 2018, , .		14
21	A New Approach for Baggage Inspection by using Deep Convolutional Neural Networks. , 2018, , .		9
22	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
23	Machine vision based defect detection approach using image processing. , 2017, , .		34
24	A New Experimental Approach Using Image Processing-Based Tracking for an Efficient Fault Diagnosis in Pantograph-Catenary Systems. IEEE Transactions on Industrial Informatics, 2017, 13, 635-643.	7.2	93
25	A new rail inspection method based on deep learning using laser cameras. , 2017, , .		27
26	A new object detection and classification method for quality control based on segmentation and geometric features. , 2017, , .		1
27	A real time interface for vision inspection of rail components and surface in railways. , 2017, , .		6
28	A vision based traffic light detection and recognition approach for intelligent vehicles. , 2017, , .		17
29	A vision based inspection system using gaussian mixture model based interactive segmentation. , 2017, , .		5
30	A vision based diagnosis approach for multi rail surface faults using fuzzy classification in railways. , 2017, , .		11
31	Edge control approach based on image processing in paper and packaging production. , 2017, , .		0
32	Big data framework for rail inspection. , 2017, , .		3
33	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
34	An Artificial 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
35	Image processing based traffic sign detection and recognition with fuzzy integral. , 2016, , .		11
36	IMU based adaptive blur removal approach using image processing for railway inspection. , 2016, , .		15

#	ARTICLE	IF	CITATIONS
37	Improving of personal educational content using big data approach for mooc in higher education. , 2016, , .		8
38	Improvement of relative accreditation methods based on data mining and artificial intelligence for higher education. , 2016, , .		9
39	An effect analysis of industry 4.0 to higher education. , 2016, , .		100
40	Chouquet fuzzy integral based condition monitoring and analysis approach using simulation framework for rail faults. , 2016, , .		7
41	Rail defect detection with real time image processing technique. , 2016, , .		20
42	A new real-time fuzzy logic based diagnosis of stator faults for inverter-fed induction motor under low speeds. , 2016, , .		3
43	Fuzzy Based Reconfiguration Method Using Intelligent Partial Shadow Detection in PV Arrays*. International Journal of Computational Intelligence Systems, 2016, 9, 202.	1.6	39
44	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
45	Dynamic Behavior analysis of PV cell With Lyapunov exponents. , 2015, , .		0
46	Detection of rail faults using morphological feature extraction based image processing. , 2015, , .		7
47	Image processing based fault detection approach for rail surface. , 2015, , .		9
48	Anomaly detection using a modified kernel-based tracking in the pantographâ€“catenary system. Expert Systems With Applications, 2015, 42, 938-948.	4.4	67
49	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
50	FPGA based Hardware-in-the-Loop (HIL) simulation of induction machine model. , 2014, , .		16
51	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
52	Detection of pantograph geometric model based on fuzzy logic and image processing. , 2014, , .		12
53	An intelligent reconfiguration approach based on fuzzy partitioning in PV arrays. , 2014, , .		16
54	Image processing and model based arc detection in pantograph catenary systems. , 2014, , .		11

#	ARTICLE	IF	CITATIONS
55	A new computer vision approach for active pantograph control. , 2013, , .		27
56	A Robust Anomaly Detection in Pantograph-Catenary System Based on Mean-Shift Tracking and Foreground Detection. , 2013, , .		41
57	A new approach based on boundary analysis of reconstructed phase space for fault diagnosis. , 2013, , .		0
58	An adaptive artificial immune system for fault classification. Journal of Intelligent Manufacturing, 2012, 23, 1489-1499.	4.4	32
59	FPGA based intelligent condition monitoring of induction motors: Detection, diagnosis, and prognosis. , 2011, , .		14
60	A multi-objective artificial immune algorithm for parameter optimization in support vector machine. Applied Soft Computing Journal, 2011, 11, 120-129.	4.1	174
61	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
62	Artificial immune classifier with swarm learning. Engineering Applications of Artificial Intelligence, 2010, 23, 1291-1302.	4.3	25
63	FPGA based real time fuzzy fault detection algorithm. , 2010, , .		2
64	Generation of classification rules using artificial immune system for fault diagnosis. , 2010, , .		5
65	Rough particle swarm optimization and its applications in data mining. Soft Computing, 2008, 12, 1205-1218.	2.1	62
66	Chaos Control in Vector-controlled Induction Motor Drive. Electric Power Components and Systems, 2008, 36, 733-740.	1.0	11
67	Artificial immune inspired fault detection algorithm based on fuzzy clustering and genetic algorithm methods. , 2008, , .		19
68	Real time FPGA implementation of induction machine model - a novel approach. , 2007, , .		9
69	An efficient genetic algorithm for automated mining of both positive and negative quantitative association rules. Soft Computing, 2006, 10, 230-237.	2.1	81
70	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
71	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
72	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

#	ARTICLE	IF	CITATIONS
73	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