

Tulay Yildirim

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

1,417
citations

430442

18
h-index

454577

30
g-index

132
all docs

132
docs citations

132
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Analog circuit sizing via swarm intelligence. AEU - International Journal of Electronics and Communications, 2012, 66, 732-740.	1.7	110
2	Performance Evaluation of Evolutionary Algorithms for Optimal Filter Design. IEEE Transactions on Evolutionary Computation, 2012, 16, 135-147.	7.5	94
3	Improving classification performance of sonar targets by applying general regression neural network with PCA. Expert Systems With Applications, 2008, 35, 472-475.	4.4	70
4	A Comprehensive Survey of Databases and Deep Learning Methods for Cybersecurity and Intrusion Detection Systems. IEEE Systems Journal, 2021, 15, 1717-1731.	2.9	64
5	Segmentation of Hyperspectral Images via Subtractive Clustering and Cluster Validation Using One-Class Support Vector Machines. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2936-2944.	2.7	55
6	Diagnosis of thyroid disease using artificial neural network methods. , 0, , .		54
7	Genetic optimization of GRNN for pattern recognition without feature extraction. Expert Systems With Applications, 2008, 34, 2444-2448.	4.4	54
8	Hand geometry identification without feature extraction by general regression neural network. Expert Systems With Applications, 2008, 34, 845-849.	4.4	50
9	Unsupervised classification of hyperspectral-image data using fuzzy approaches that spatially exploit membership relations. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 673-677.	1.4	44
10	FPGA implementation of a General Regression Neural Network: An embedded pattern classification system. , 2010, 20, 881-886.		32
11	A Novel Approach to Improving Brain Image Classification Using Mutual Information-Accelerated Singular Value Decomposition. IEEE Access, 2020, 8, 52575-52587.	2.6	32
12	A hybrid approach based on multiple Eigenvalues selection (MES) for the automated grading of a brain tumor using MRI. Computer Methods and Programs in Biomedicine, 2021, 201, 105945.	2.6	32
13	Prediction of Force Measurements of a Microbend Sensor Based on an Artificial Neural Network. Sensors, 2009, 9, 7167-7176.	2.1	29
14	Large-scale offline signature recognition via deep neural networks and feature embedding. Neurocomputing, 2019, 359, 1-14.	3.5	28
15	Conic Section Function Neural Network Circuitry for Offline Signature Recognition. IEEE Transactions on Neural Networks, 2010, 21, 667-672.	4.8	27
16	Swarm intelligence based sizing methodology for CMOS operational amplifier. , 2011, , .		25
17	FMCW Signal Detection and Parameter Extraction by Cross Wignerâ€™Hough Transform. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 334-344.	2.6	25
18	Investigation of particle swarm optimization for switching characterization of inverter design. Expert Systems With Applications, 2011, 38, 5696-5703.	4.4	22

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19	Analog active filter component selection with nature inspired metaheuristics. AEU - International Journal of Electronics and Communications, 2013, 67, 197-205.	1.7	22
20	Daily Motion Recognition System by a Triaxial Accelerometer Usable in Different Positions. IEEE Sensors Journal, 2019, 19, 7543-7552.	2.4	22
21	Component value selection for analog active filter using particle swarm optimization. , 2010, , .		21
22	COLREGS Based Path Planning and Bearing Only Obstacle Avoidance for Autonomous Unmanned Surface Vehicles. Procedia Computer Science, 2018, 131, 633-640.	1.2	21
23	Recognition of sign language using capsule networks. , 2018, , .		21
24	Parameter extraction of FMCW modulated radar signals using Wigner-Hough transform. , 2011, , .		18
25	Technology independent circuit sizing for fundamental analog circuits using artificial neural networks. , 2008, , .		17
26	Particle swarm optimization based inverter design considering transient performance. , 2010, 20, 1215-1220.		17
27	A parameter extraction technique for FMCW radar signals using Wigner-Hough-Radon transform. , 2012, , .		17
28	Neural network based wrist vein identification using ordinary camera. , 2016, , .		17
29	A multi-biometric recognition system based on deep features of face and gesture energy image. , 2017, , .		16
30	Offline Signature Identification and Verification Using Capsule Network. , 2019, , .		16
31	Painter Classification Over the Novel Art Painting Data Set via The Latest Deep Neural Networks. Procedia Computer Science, 2019, 154, 369-376.	1.2	15
32	State variable filter design using Particle Swarm Optimization. , 2010, , .		13
33	New statistical features for the design of fiber optic statistical mode sensors. Optical Fiber Technology, 2013, 19, 279-284.	1.4	13
34	Neural network based MOSFET channel length and width decision method for analogue integrated circuits. International Journal of Electronics, 2005, 92, 281-293.	0.9	12
35	Capsule Network for Finger-Vein-based Biometric Identification. , 2019, , .		12
36	Artificial bee Colony optimization based CMOS inverter design considering propagation delays. , 2010, , .		10

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37	Differential Privacy Practice on Diagnosis of COVID-19 Radiology Imaging Using EfficientNet. , 2020, , .		10
38	Low voltage low power neuron circuit design based on subthreshold FGMOS transistors and XOR implementation. , 2010, , .		9
39	Learning parameter optimization of Multi-Layer Perceptron using Artificial Bee Colony, Genetic Algorithm and Particle Swarm Optimization. , 2015, , .		9
40	Artificial intelligenceâ€based design optimization of nonuniform microstrip line band pass filter. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, e2888.	1.2	9
41	Signature Verification Using Conic Section Function Neural Network. Lecture Notes in Computer Science, 2005, , 524-532.	1.0	9
42	Technology independent circuit sizing for standard cell based design using neural networks. , 2009, 19, 708-714.		8
43	A Mixed Mode Neural Network Circuitry for Object Recognition Application. Circuits, Systems, and Signal Processing, 2013, 32, 29-46.	1.2	8
44	PWVD resolution considerations for LFM CW signal detection by WHT. , 2014, , .		8
45	Enhanced LPI Waveform Representation by Ambiguity-Domain Elliptical Gaussian Filtering. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 762-777.	2.6	8
46	Classification of escherichia coli bacteria by artificial neural networks. , 0, , .		7
47	Advanced image processing and artificial intelligence based approaches to fiber optic statistical mode sensor design. Proceedings of SPIE, 2011, , .	0.8	7
48	Classification of normal and abnormal lung sounds using wavelet coefficients. , 2014, , .		7
49	Implementation aspects of Wigner-Hough Transform based detectors for LFM CW signals. , 2016, , .		7
50	Face recognition classifier based on dimension reduction in deep learning properties. , 2017, , .		7
51	Optimization of the Deflection Basin by Genetic Algorithm and Neural Network Approach. Lecture Notes in Computer Science, 2003, , 662-669.	1.0	7
52	General design method for complementary pass transistor logic circuits. Electronics Letters, 2003, 39, 46.	0.5	6
53	Defining the effective threshold using modified wigner-hough transform in FMCW-signal detection. , 2013, , .		6
54	Signature recognition application based on deep learning. , 2017, , .		6

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55	Overcoming "Big Data" Barriers in Machine Learning Techniques for the Real-Life Applications. Complexity, 2018, 2018, 1-3.	0.9	6
56	Dimensionality reduction in conic section function neural network. Sadhana - Academy Proceedings in Engineering Sciences, 2002, 27, 675-683.	0.8	5
57	Design of intelligent fiber optic statistical mode sensors using novel features and artificial neural networks. , 2012, , .		5
58	Adversarial Nuclei Segmentation on H&E Stained Histopathology Images. , 2019, , .		5
59	Comparison of generalized regression neural network and MLP performances on hydrologic data forecasting. , 2002, , .		4
60	Active Learning for Probabilistic Neural Networks. Lecture Notes in Computer Science, 2005, , 110-118.	1.0	4
61	Nonlinear dimension reduction methods and segmentation of hyperspectral images. , 2008, , .		4
62	Design of digital filters with bilinear transform using neural networks. , 2008, , .		4
63	CSFNN optimization of signature recognition problem for a special VLSI NN chip. , 2008, , .		4
64	Pattern recognition using N-input neuron circuits based on floating gate MOS transistors. , 2009, , .		4
65	Digital chirp rate adaptation for increased FMCW interception performance in Hough based transforms. , 2014, , .		4
66	Process independent automated sizing methodology for current steering DAC. International Journal of Electronics, 0, , 1-22.	0.9	4
67	ROC Analysis as a Useful Tool for Performance Evaluation of Artificial Neural Networks. Lecture Notes in Computer Science, 2006, , 923-931.	1.0	4
68	Recognition of Patterns Without Feature Extraction by GRNN. Lecture Notes in Computer Science, 2007, , 161-168.	1.0	4
69	Obtaining decision boundaries of CSFNN neurons using current mode analog circuitry. , 2007, , .		3
70	Multiscale Windowed Denoising and Segmentation of Hyperspectral Images. , 2008, , .		3
71	Design of a hetero-core smart fiber optic microbend sensor. , 2011, , .		3
72	Assessment of Components and Methods Used to Identify Responses and Regions of Brain Related with Face Recognition and Perception. Procedia Computer Science, 2018, 131, 38-44.	1.2	3

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73	Speaker Dependent Voice Controlled Robotic Arm. , 2018, , .		3
74	Modeling and Simulation of Turret Stabilization with Intelligent Algorithms. Procedia Computer Science, 2019, 154, 377-382.	1.2	3
75	ROC Analysis for Fetal Hypoxia Problem by Artificial Neural Networks. Lecture Notes in Computer Science, 2004, , 1026-1030.	1.0	3
76	Offline Signature Identification and Verification Based on Capsule Representations. Cybernetics and Information Technologies, 2020, 20, 60-67.	0.4	3
77	Elliptic Gaussian filtering for Time-Frequency signal analysis. , 2013, , .		2
78	Intelligent fiber optic statistical mode sensors using novel features and artificial neural networks. Proceedings of SPIE, 2013, , .	0.8	2
79	Neural network based daily activity recognition without feature extraction. , 2014, , .		2
80	Improving Wigner-Hough Transform for hardware implementation to intercept LFM CW signals. , 2015, , .		2
81	Motion-Controlled Virtual Reality Robotic Arm With Kinect. , 2018, , .		2
82	Comparative Analysis of Crypto Systems Using Biometric Key. Procedia Computer Science, 2019, 154, 327-331.	1.2	2
83	Wrist Vein Recognition by Ordinary Camera Using Phase-based Correspondence Matching. , 2017, , .		2
84	Privacy-Preserving Mechanisms with Explainability in Assistive AI Technologies. Learning and Analytics in Intelligent Systems, 2022, , 287-309.	0.5	2
85	Surrogate-assisted optimization of 3D printed ceramic nonuniform nonplanar microstrip filter. Microwave and Optical Technology Letters, 0, , .	0.9	2
86	Hand gesture recognition using artificial neural ne. , 0, , .		1
87	Determination of The Neural Network Performances In The Medical Prognosis By Roc Analysis. , 0, , .		1
88	Classification of Muscle Groups Related to Neuropathy Disease By Modeling EMG Signals. , 2007, , .		1
89	Modeling and simulation of a General Regression Neural Network using hardware description language. , 2007, , .		1
90	Fuzzy-neural networks for medical diagnosis. International Journal of Reasoning-based Intelligent Systems, 2010, 2, 265.	0.1	1

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91	Digit recognition in a simplified visual cortex model. , 2013, , .		1
92	Technology Independent Automated Sizing Methodology Based on Artificial Neural Networks: An Application to CMOS OPAMP Design. , 2014, , .		1
93	Assessment of optical detection methods for compact biosensors. , 2017, , .		1
94	The Effect of Convolutional Neural Network Parameters on Sign Language Recognition. , 2018, , .		1
95	Modelling of Non-Planar Microstrip Lines via Artificial Neural Networks. , 2019, , .		1
96	Improving Turkish Telephone Speech Recognition with Data Augmentation and Out of Domain Data. , 2019, , .		1
97	Speaker Accent Recognition Using Machine Learning Algorithms. , 2020, , .		1
98	Tuning Cascade PID Controller for Valves Using optimization Methods. , 2020, , .		1
99	Data sharing and privacy issues arising with COVID-19 data and applications. , 2022, , 61-75.		1
100	Reduction of complexity in conic section function neural network. Kybernetes, 2003, 32, 540-547.	1.2	0
101	Image segmentation using conic section function neural network. , 0, , .		0
102	Reduction of impulse noise from highly corrupted digital images by using neural networks. , 0, , .		0
103	Recognition of 3-D Similar Objects by GRNN. , 0, , .		0
104	Optimization of integrated circuits using an artificial intelligence algorithm. , 2008, , .		0
105	Object recognition on general purposed Conic Section Function Neural Network integrated circuit. , 2008, , .		0
106	Segmentation of hyperspectral images using fuzzy approaches. , 2008, , .		0
107	One-class support vector machines based cluster validity in the segmentation of hyperspectral images. , 2009, , .		0
108	Use of Artificial Neural Networks for prediction of output response of fiber optic microbend sensors. , 2010, , .		0

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109	Use of Artificial Neural Networks for improving fiber optic microbend sensor performance. , 2010, , .		0
110	An edge detection technique using hybrid Ant Colony Optimization-genetic algorithm. , 2012, , .		0
111	Neural network based footprint identification without feature extraction. , 2013, , .		0
112	Digital chirp rate adaptation for optimum FMCW interception using Wigner-Hough transform. , 2014, , .		0
113	Special issue on artificial intelligence in modeling and simulation. Simulation, 2017, 93, 725-726.	1.1	0
114	Obtaining Brachistochrone Curve with Metaheuristic Algorithms. , 2018, , .		0
115	Simplified Visual Cortex Model for Pattern Recognition. , 2018, , .		0
116	Transfer Function Optimization for Band-Pass and Band-Stop Filters. , 2019, , .		0
117	Depo Ynetim Sistemi Probleminin AteÅbÅceÅi AlgoritmasÅ± ile Å±ÅzÅ¼mÅ¼ Storage Management System Problem and Firefly Algorithm Solution. , 2019, , .		0
118	Split Feature Model For Adversarial Condition. , 2020, , .		0
119	Statistical Neural Network Based Classifiers for Letter Recognition. , 2006, , 1081-1086.		0
120	Pattern Recognition Without Feature Extraction Using Probabilistic Neural Network. , 2006, , 402-409.		0
121	Conic Section Function Neural Networks for Sonar Target Classification and Performance Evaluation Using ROC Analysis. , 2006, , 779-784.		0