

# Tulay Yildirim

## List of Publications by Year in descending order

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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	Privacy-Preserving Mechanisms with Explainability in Assistive AI Technologies. Learning and Analytics in Intelligent Systems, 2022, , 287-309.	0.5	2
2	Data sharing and privacy issues arising with COVID-19 data and applications. , 2022, , 61-75.		1
3	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
4	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
5	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
6	Split Feature Model For Adversarial Condition. , 2020, , .		0
7	Differential Privacy Practice on Diagnosis of COVID-19 Radiology Imaging Using EfficientNet. , 2020, , .		10
8	Speaker Accent Recognition Using Machine Learning Algorithms. , 2020, , .		1
9	Tuning Cascade PID Controller for Valves Using optimization Methods. , 2020, , .		1
10	A Novel Approach to Improving Brain Image Classification Using Mutual Information-Accelerated Singular Value Decomposition. IEEE Access, 2020, 8, 52575-52587.	2.6	32
11	Offline Signature Identification and Verification Based on Capsule Representations. Cybernetics and Information Technologies, 2020, 20, 60-67.	0.4	3
12	Adversarial Nuclei Segmentation on H&E Stained Histopathology Images. , 2019, , .		5
13	Offline Signature Identification and Verification Using Capsule Network. , 2019, , .		16
14	Comparative Analysis of Crypto Systems Using Biometric Key. Procedia Computer Science, 2019, 154, 327-331.	1.2	2
15	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
16	Modeling and Simulation of Turret Stabilization with Intelligent Algorithms. Procedia Computer Science, 2019, 154, 377-382.	1.2	3
17	Large-scale offline signature recognition via deep neural networks and feature embedding. Neurocomputing, 2019, 359, 1-14.	3.5	28
18	Daily Motion Recognition System by a Triaxial Accelerometer Usable in Different Positions. IEEE Sensors Journal, 2019, 19, 7543-7552.	2.4	22

#	ARTICLE	IF	CITATIONS
19	Capsule Network for Finger-Vein-based Biometric Identification. , 2019, , .		12
20	Modelling of Non-Planar Microstrip Lines via Artificial Neural Networks. , 2019, , .		1
21	Transfer Function Optimization for Band-Pass and Band-Stop Filters. , 2019, , .		0
22	Improving Turkish Telephone Speech Recognition with Data Augmentation and Out of Domain Data. , 2019, , .		1
23	Depo Ynetim Sistemi Probleminin AteÅYbÅrceÅYi AlgoritmasÅ± ile Å±ÅrzmÅ¼mÅ¼ Storage Management System Problem and Firefly Algorithm Solution. , 2019, , .		0
24	Overcoming â€œBig Dataâ€•Barriers in Machine Learning Techniques for the Real-Life Applications. Complexity, 2018, 2018, 1-3.	0.9	6
25	The Effect of Convolutional Neural Network Parameters on Sign Language Recognition. , 2018, , .		1
26	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
27	COLREGS Based Path Planning and Bearing Only Obstacle Avoidance for Autonomous Unmanned Surface Vehicles. Procedia Computer Science, 2018, 131, 633-640.	1.2	21
28	Obtaining Brachistochrone Curve with Metaheuristic Algorithms. , 2018, , .		0
29	Simplified Visual Cortex Model for Pattern Recognition. , 2018, , .		0
30	Motion-Controlled Virtual Reality Robotic Arm With Kinect. , 2018, , .		2
31	Speaker Dependent Voice Controlled Robotic Arm. , 2018, , .		3
32	Recognition of sign language using capsule networks. , 2018, , .		21
33	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
34	Enhanced LPI Waveform Representation by Ambiguity-Domain Elliptical Gaussian Filtering. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 762-777.	2.6	8
35	Special issue on artificial intelligence in modeling and simulation. Simulation, 2017, 93, 725-726.	1.1	0
36	A multi-biometric recognition system based on deep features of face and gesture energy image. , 2017, , .		16

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37	Signature recognition application based on deep learning. , 2017, , .		6
38	Face recognition classifier based on dimension reduction in deep learning properties. , 2017, , .		7
39	Assessment of optical detection methods for compact biosensors. , 2017, , .		1
40	Wrist Vein Recognition by Ordinary Camera Using Phase-based Correspondence Matching. , 2017, , .		2
41	Implementation aspects of Wigner-Hough Transform based detectors for LFM CW signals. , 2016, , .		7
42	Neural network based wrist vein identification using ordinary camera. , 2016, , .		17
43	Learning parameter optimization of Multi-Layer Perceptron using Artificial Bee Colony, Genetic Algorithm and Particle Swarm Optimization. , 2015, , .		9
44	Improving Wigner-Hough Transform for hardware implementation to intercept LFM CW signals. , 2015, , .		2
45	Digital chirp rate adaptation for increased FMCW interception performance in Hough based transforms. , 2014, , .		4
46	Digital chirp rate adaptation for optimum FMCW interception using Wigner-Hough transform. , 2014, , .		0
47	Technology Independent Automated Sizing Methodology Based on Artificial Neural Networks: An Application to CMOS OPAMP Design. , 2014, , .		1
48	PWVD resolution considerations for LFM CW signal detection by WHT. , 2014, , .		8
49	Classification of normal and abnormal lung sounds using wavelet coefficients. , 2014, , .		7
50	Neural network based daily activity recognition without feature extraction. , 2014, , .		2
51	New statistical features for the design of fiber optic statistical mode sensors. Optical Fiber Technology, 2013, 19, 279-284.	1.4	13
52	Defining the effective threshold using modified wigner-hough transform in FMCW-signal detection. , 2013, , .		6
53	Analog active filter component selection with nature inspired metaheuristics. AEU - International Journal of Electronics and Communications, 2013, 67, 197-205.	1.7	22
54	Elliptic Gaussian filtering for Time-Frequency signal analysis. , 2013, , .		2

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55	A Mixed Mode Neural Network Circuitry for Object Recognition Application. Circuits, Systems, and Signal Processing, 2013, 32, 29-46.	1.2	8
56	Intelligent fiber optic statistical mode sensors using novel features and artificial neural networks. Proceedings of SPIE, 2013, , .	0.8	2
57	Digit recognition in a simplified visual cortex model. , 2013, , .		1
58	Neural network based footprint identification without feature extraction. , 2013, , .		0
59	A parameter extraction technique for FMCW radar signals using Wigner-Hough-Radon transform. , 2012, , .		17
60	Analog circuit sizing via swarm intelligence. AEU - International Journal of Electronics and Communications, 2012, 66, 732-740.	1.7	110
61	An edge detection technique using hybrid Ant Colony Optimization-genetic algorithm. , 2012, , .		0
62	Design of intelligent fiber optic statistical mode sensors using novel features and artificial neural networks. , 2012, , .		5
63	Performance Evaluation of Evolutionary Algorithms for Optimal Filter Design. IEEE Transactions on Evolutionary Computation, 2012, 16, 135-147.	7.5	94
64	Design of a hetero-core smart fiber optic microbend sensor. , 2011, , .		3
65	Parameter extraction of FMCW modulated radar signals using Wigner-Hough transform. , 2011, , .		18
66	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
67	Investigation of particle swarm optimization for switching characterization of inverter design. Expert Systems With Applications, 2011, 38, 5696-5703.	4.4	22
68	Swarm intelligence based sizing methodology for CMOS operational amplifier. , 2011, , .		25
69	Advanced image processing and artificial intelligence based approaches to fiber optic statistical mode sensor design. Proceedings of SPIE, 2011, , .	0.8	7
70	Fuzzy-neural networks for medical diagnosis. International Journal of Reasoning-based Intelligent Systems, 2010, 2, 265.	0.1	1
71	Particle swarm optimization based inverter design considering transient performance. , 2010, 20, 1215-1220.		17
72	FPGA implementation of a General Regression Neural Network: An embedded pattern classification system. , 2010, 20, 881-886.		32

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73	Artificial bee Colony optimization based CMOS inverter design considering propagation delays. , 2010, , .		10
74	Use of Artificial Neural Networks for prediction of output response of fiber optic microbend sensors. , 2010, , .		0
75	Use of Artificial Neural Networks for improving fiber optic microbend sensor performance. , 2010, , .		0
76	Component value selection for analog active filter using particle swarm optimization. , 2010, , .		21
77	State variable filter design using Particle Swarm Optimization. , 2010, , .		13
78	Low voltage low power neuron circuit design based on subthreshold FGMOS transistors and XOR implementation. , 2010, , .		9
79	Conic Section Function Neural Network Circuitry for Offline Signature Recognition. IEEE Transactions on Neural Networks, 2010, 21, 667-672.	4.8	27
80	One-class support vector machines based cluster validity in the segmentation of hyperspectral images. , 2009, , .		0
81	Prediction of Force Measurements of a Microbend Sensor Based on an Artificial Neural Network. Sensors, 2009, 9, 7167-7176.	2.1	29
82	Technology independent circuit sizing for standard cell based design using neural networks. , 2009, 19, 708-714.		8
83	Pattern recognition using N-input neuron circuits based on floating gate MOS transistors. , 2009, , .		4
84	Genetic optimization of GRNN for pattern recognition without feature extraction. Expert Systems With Applications, 2008, 34, 2444-2448.	4.4	54
85	Hand geometry identification without feature extraction by general regression neural network. Expert Systems With Applications, 2008, 34, 845-849.	4.4	50
86	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
87	Multiscale Windowed Denoising and Segmentation of Hyperspectral Images. , 2008, , .		3
88	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
89	Nonlinear dimension reduction methods and segmentation of hyperspectral images. , 2008, , .		4
90	Design of digital filters with bilinear transform using neural networks. , 2008, , .		4

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91	CSFNN optimization of signature recognition problem for a special VLSI NN chip. , 2008, , .		4
92	Technology independent circuit sizing for fundamental analog circuits using artificial neural networks. , 2008, , .		17
93	Optimization of integrated circuits using an artificial intelligence algorithm. , 2008, , .		0
94	Object recognition on general posed Conic Section Function Neural Network integrated circuit. , 2008, , .		0
95	Segmentation of hyperspectral images using fuzzy approaches. , 2008, , .		0
96	Classification of Muscle Groups Related to Neuropathy Disease By Modeling EMG Signals. , 2007, , .		1
97	Obtaining decision boundaries of CSFNN neurons using current mode analog circuitry. , 2007, , .		3
98	Modeling and simulation of a General Regression Neural Network using hardware description language. , 2007, , .		1
99	Recognition of Patterns Without Feature Extraction by GRNN. Lecture Notes in Computer Science, 2007, , 161-168.	1.0	4
100	ROC Analysis as a Useful Tool for Performance Evaluation of Artificial Neural Networks. Lecture Notes in Computer Science, 2006, , 923-931.	1.0	4
101	Statistical Neural Network Based Classifiers for Letter Recognition. , 2006, , 1081-1086.		0
102	Pattern Recognition Without Feature Extraction Using Probabilistic Neural Network. , 2006, , 402-409.		0
103	Conic Section Function Neural Networks for Sonar Target Classification and Performance Evaluation Using ROC Analysis. , 2006, , 779-784.		0
104	Active Learning for Probabilistic Neural Networks. Lecture Notes in Computer Science, 2005, , 110-118.	1.0	4
105	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
106	Signature Verification Using Conic Section Function Neural Network. Lecture Notes in Computer Science, 2005, , 524-532.	1.0	9
107	ROC Analysis for Fetal Hypoxia Problem by Artificial Neural Networks. Lecture Notes in Computer Science, 2004, , 1026-1030.	1.0	3
108	Reduction of complexity in conic section function neural network. Kybernetes, 2003, 32, 540-547.	1.2	0

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109	General design method for complementary pass transistor logic circuits. Electronics Letters, 2003, 39, 46.	0.5	6
110	Optimization of the Deflection Basin by Genetic Algorithm and Neural Network Approach. Lecture Notes in Computer Science, 2003, , 662-669.	1.0	7
111	Comparison of generalized regression neural network and MLP performances on hydrologic data forecasting. , 2002, , .		4
112	Dimensionality reduction in conic section function neural network. Sadhana - Academy Proceedings in Engineering Sciences, 2002, 27, 675-683.	0.8	5
113	Diagnosis of thyroid disease using artificial neural network methods. , 0, , .		54
114	Classification of escherichia coli bacteria by artificial neural networks. , 0, , .		7
115	Image segmentation using conic section function neural network. , 0, , .		0
116	Reduction of impulse noise from highly corrupted digital images by using neural networks. , 0, , .		0
117	Hand gesture recognition using artificial neural ne. , 0, , .		1
118	Determination of The Neural Network Performances In The Medical Prognosis By Roc Analysis. , 0, , .		1
119	Recognition of 3-D Similar Objects by GRNN. , 0, , .		0
120	Process independent automated sizing methodology for current steering DAC. International Journal of Electronics, 0, , 1-22.	0.9	4
121	Surrogate-assisted optimization of 3D printed ceramic nonuniform nonplanar microstrip filter. Microwave and Optical Technology Letters, 0, , .	0.9	2