

# Sadik Kara

## List of Publications by Year in descending order

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128  
papers

1,563  
citations

304602

22  
h-index

377752

34  
g-index

129  
all docs

129  
docs citations

129  
times ranked

1576  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of opacity development in the human eye for estimation of the postmortem interval. <i>BioCybernetics and Biomedical Engineering</i> , 2017, 37, 559-565.	3.3	8
2	3D structural complexity analysis of cerebellum in Chiari malformation type I. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 2169-2182.	1.6	7
3	Vibration-related extrusion of capillary blood from the calf musculature depends upon directions of vibration of the leg and of the gravity vector. <i>European Journal of Applied Physiology</i> , 2017, 117, 1107-1117.	1.2	8
4	Fractal analysis of MR images in patients with chiari malformation: The importance of preprocessing. <i>Biomedical Signal Processing and Control</i> , 2017, 31, 63-70.	3.5	19
5	Comparison of Pulse Rate Variability and Heart Rate Variability for Hypoglycemia Syndrome. <i>Methods of Information in Medicine</i> , 2016, 55, 250-257.	0.7	9
6	Evaluation of Spontaneous Spinal Cerebrospinal Fluid Leaks Disease by Computerized Image Processing. <i>Methods of Information in Medicine</i> , 2016, 55, 215-222.	0.7	0
7	Electromyographic analysis of an ergonomic risk factor: overhead work. <i>Journal of Physical Therapy Science</i> , 2016, 28, 1924-1927.	0.2	13
8	Line length feature of the electrogastrogram for delayed gastric emptying diagnosis. , 2016, , .		3
9	Analysis of the Complexity Measures in the EEG of Schizophrenia Patients. <i>International Journal of Neural Systems</i> , 2016, 26, 1650008.	3.2	69
10	Investigation of heart rate variability in major depression patients using wavelet packet transform. <i>Psychiatry Research</i> , 2016, 238, 326-332.	1.7	9
11	An experimental evaluation of electrical skin conductivity changes in postmortem interval and its assessment for time of death estimation. <i>Computers in Biology and Medicine</i> , 2016, 69, 92-96.	3.9	9
12	The effect of single extremity-vibration on the serum sclerostin level. <i>Journal of Physical Therapy Science</i> , 2015, 27, 2105-2107.	0.2	1
13	Whole-body vibration-induced muscular reflex: Is it a stretch-induced reflex?. <i>Journal of Physical Therapy Science</i> , 2015, 27, 2279-2284.	0.2	15
14	Investigation of Obsessive Compulsive Disorder with FFT Dipol Approximation by means of EEG. , 2015, , .		0
15	Electromyographic analysis of upper extremity muscles during overhead work. , 2015, , .		0
16	The effects of hypoglycemia on perception and learning processes. , 2015, , .		0
17	Investigation of EEG signals of patients with major depression using chaotic features. , 2015, , .		2
18	Analysis of sympathovagal balance in patients with major depressive disorder using wavelet packet transform. , 2015, 2015, 6158-61.		1

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19	A MATLAB tool for an easy application and comparison of image denoising methods. , 2015, , .		3
20	Volumetric analysis of CSF spaces in patients with Chiari Malformation type-I. , 2015, , .		0
21	Nonlinear analysis of EEG in major depression with fractal dimensions. , 2015, 2015, 7410-3.		27
22	Investigation of the noise effect on fractal dimension of EEG in schizophrenia patients using wavelet and SSA-based approaches. Biomedical Signal Processing and Control, 2015, 18, 42-48.	3.5	26
23	Fractal dimension analysis of cerebellum in Chiari Malformation type I. Computers in Biology and Medicine, 2015, 64, 179-186.	3.9	25
24	Estimation of nonlinear measures of schizophrenia patients' EEG in emotional states. Irbm, 2015, 36, 250-258.	3.7	6
25	Nonlinear analysis of EEGs of patients with major depression during different emotional states. Computers in Biology and Medicine, 2015, 67, 49-60.	3.9	85
26	Analysis of heart rate variability during auditory stimulation periods in patients with schizophrenia. Journal of Clinical Monitoring and Computing, 2015, 29, 153-162.	0.7	26
27	A new method to determine reflex latency induced by high rate stimulation of the nervous system. Frontiers in Human Neuroscience, 2014, 8, 536.	1.0	11
28	Wavelet analysis of mechanical heart valve sounds with paravalvular leakage. , 2014, , .		1
29	Investigation the level of neural synchronization by using global field synchronization method in Obsessive Compulsive Disorder. , 2014, , .		4
30	Liver fibrosis staging using CT image texture analysis and soft computing. Applied Soft Computing Journal, 2014, 25, 399-413.	4.1	27
31	Comparison of first and second heart sounds after mechanical heart valve replacement. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 368-380.	0.9	9
32	Detection of position of replaced mechanical heart valve with ANN. , 2013, , .		0
33	Algorithm for computer aided diagnosis in spontaneous intracranial hypotension. , 2013, , .		1
34	Spectral analysis of photoplethysmographic signals: The importance of preprocessing. Biomedical Signal Processing and Control, 2013, 8, 16-22.	3.5	54
35	Electromagnetic modeling of a female breast hyperthermia applicator. , 2013, , .		1
36	Design of compact microstrip antennas embedded in water bolus for hyperthermia applications. , 2012, , .		1

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37	Development of a hyperthermia applicator with compact microstrip antennas. , 2012, , .		0
38	Influence of Pre-Orthodontic Trainer treatment on the perioral and masticatory muscles in patients with Class II division 1 malocclusion. European Journal of Orthodontics, 2012, 34, 96-101.	1.1	29
39	Wavelet-Welch methodology for analysis of EEG signals of schizophrenia patients. , 2012, , .		3
40	Staging of the liver fibrosis from CT images using texture features. , 2012, , .		8
41	Respiratory Variability during Different Auditory Stimulation Periods in Schizophrenia Patients. Methods of Information in Medicine, 2012, 51, 29-38.	0.7	8
42	Non-Invasive Diagnosis of Stress Urinary Incontinence Sub Types Using Wavelet Analysis, Shannon Entropy and Principal Component Analysis. Journal of Medical Systems, 2012, 36, 2159-2169.	2.2	1
43	A wireless surface electromyography system design for lumbar disc herniated patients. , 2011, , .		3
44	Singular Spectrum Analysis of Sleep EEG in Insomnia. Journal of Medical Systems, 2011, 35, 457-461.	2.2	27
45	Analysis of coronary angiography related psychophysiological responses. BioMedical Engineering OnLine, 2011, 10, 71.	1.3	6
46	Fuzzy clustering complex-valued neural network to diagnose cirrhosis disease. Expert Systems With Applications, 2011, 38, 9744-9751.	4.4	41
47	An Estimation of Nonlinearity Measures for the EEG of Schizophrenia Patients in Emotional States. , 2011, , .		0
48	Time Domain Features of Heart Sounds for Determining Mechanical Valve Thrombosis. Lecture Notes in Electrical Engineering, 2011, , 173-181.	0.3	1
49	Medical diagnosis of rheumatoid arthritis disease from right and left hand Ulnar artery Doppler signals using adaptive network based fuzzy inference system (ANFIS) and MUSIC method. Advances in Engineering Software, 2010, 41, 1295-1301.	1.8	14
50	Effect of diazepam on the sempatovagal balance and O2 saturation. , 2010, , .		0
51	The investigation of respiratory differences during different auditory stimuli in schizophrenia patients. , 2010, , .		1
52	Design of a portable electromyography device for analysis of back herniation. , 2010, , .		0
53	Classification of root canal microorganisms using electronic-nose and discriminant analysis. BioMedical Engineering OnLine, 2010, 9, 77.	1.3	3
54	Extraction of blood vessel centerlines on retinal images. , 2010, , .		0

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55	Analysis of Doppler signals of radial artery for diagnosis of rheumatoid arthritis. , 2010, , .		0
56	Respiratory and cardiovascular responsivity to Classical Turkish Music in schizophrenia. , 2010, , .		0
57	Analysis of spectral features of mechanical heart valve sounds after aortic and mitral valve replacement. , 2010, , .		3
58	Automated location of optic disk and fovea in color fundus images. , 2009, , .		1
59	Evaluation of anxiety related changes in skin conductance and blood volume pulse signals during coronary angiography. , 2009, , .		1
60	Extraction of vessels on fundus image with three different methods. , 2009, , .		0
61	Correlation- and covariance-supported normalization method for estimating orthodontic trainer treatment for clenching activity. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2009, 223, 991-1001.	1.0	5
62	Use of Kernel Functions in Artificial Immune Systems for the Nonlinear Classification Problems. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 621-628.	3.6	20
63	Log Energy Entropy-Based EEG Classification with Multilayer Neural Networks in Seizure. Annals of Biomedical Engineering, 2009, 37, 2626-2630.	1.3	94
64	Usage of class dependency based feature selection and fuzzy weighted pre-processing methods on classification of macular disease. Expert Systems With Applications, 2009, 36, 2584-2591.	4.4	12
65	Medical application of information gain-based artificial immune recognition system (IG-AIRS): Classification of microorganism species. Expert Systems With Applications, 2009, 36, 5168-5172.	4.4	13
66	Comparison of Short-Time Fourier Transform and Eigenvector MUSIC Methods Using Discrete Wavelet Transform for Diagnosis of Atherosclerosis. Journal of Medical Systems, 2009, 33, 189-197.	2.2	4
67	SPECTRAL ANALYSIS OF UMBILICAL ARTERY DOPPLER SIGNALS DURING GESTATION UTILIZING DISCRETE WAVELET TRANSFORM. Experimental Techniques, 2009, 33, 52-58.	0.9	1
68	Classification of microorganism species using Discriminant Analysis. , 2009, , .		0
69	Variation of Power Spectral Density and Energy in Electromyogram of Jaw-Closing Muscles in Children with Class II Malocclusion. IFMBE Proceedings, 2009, , 1475-1478.	0.2	0
70	Study of Electromyographic Signals During Chewing Process In Patients with Fixed Partial Denture. IFMBE Proceedings, 2009, , 1471-1474.	0.2	0
71	Usage of a novel, similarity-based weighting method to diagnose atherosclerosis from carotid artery Doppler signals. Medical and Biological Engineering and Computing, 2008, 46, 353-362.	1.6	4
72	Spectral broadening of lower extremity venous Doppler signals using STFT and AR modeling. , 2008, 18, 669-676.		6

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73	The effect of generalized discriminate analysis (GDA) to the classification of optic nerve disease from VEP signals. Computers in Biology and Medicine, 2008, 38, 62-68.	3.9	13
74	Ensemble adaptive network-based fuzzy inference system with weighted arithmetical mean and application to diagnosis of optic nerve disease from visual-evoked potential signals. Artificial Intelligence in Medicine, 2008, 43, 141-149.	3.8	20
75	Application of complex discrete wavelet transform in classification of Doppler signals using complex-valued artificial neural network. Artificial Intelligence in Medicine, 2008, 44, 65-76.	3.8	33
76	Medical diagnosis of atherosclerosis from Carotid Artery Doppler Signals using principal component analysis (PCA), k-NN based weighting pre-processing and Artificial Immune Recognition System (AIRS). Journal of Biomedical Informatics, 2008, 41, 15-23.	2.5	50
77	Utilization of Discretization method on the diagnosis of optic nerve disease. Computer Methods and Programs in Biomedicine, 2008, 91, 255-264.	2.6	11
78	Fractal Analysis of Umbilical Artery Doppler Signals from Normal Pregnant Subject Using Hurst Exponent. , 2007, , .		0
79	Determination of Effects of Different Music on Frontal Muscle by Using EMG Signal. , 2007, , .		4
80	Spectral analysis of umbilical artery Doppler signals during normal pregnancy using STFT and AR method. , 2007, , .		0
81	Analysis of the electromyogram to evaluate the effect of Pre Orthodontic Trainer during sucking on an empty straw. , 2007, , .		0
82	Classification of carotid artery Doppler signals in the early phase of atherosclerosis using complex-valued artificial neural network. Computers in Biology and Medicine, 2007, 37, 28-36.	3.9	30
83	Training a learning vector quantization network using the pattern electroretinography signals. Computers in Biology and Medicine, 2007, 37, 77-82.	3.9	7
84	Classification of macular and optic nerve disease by principal component analysis. Computers in Biology and Medicine, 2007, 37, 836-841.	3.9	7
85	Medical application of Artificial Immune Recognition System (AIRS): Diagnosis of atherosclerosis from carotid artery Doppler signals. Computers in Biology and Medicine, 2007, 37, 1092-1099.	3.9	16
86	Spectral analysing of portal vein Doppler signals in the cirrhosis patients. Computers in Biology and Medicine, 2007, 37, 1303-1307.	3.9	7
87	Diagnosis of atherosclerosis from carotid artery Doppler signals as a real-world medical application of artificial immune systems. Expert Systems With Applications, 2007, 33, 786-793.	4.4	21
88	A system to diagnose atherosclerosis via wavelet transforms, principal component analysis and artificial neural networks. Expert Systems With Applications, 2007, 32, 632-640.	4.4	59
89	Classification of mitral stenosis from Doppler signals using short time Fourier transform and artificial neural networks. Expert Systems With Applications, 2007, 33, 468-475.	4.4	16
90	SPECTRAL ANALYSIS OF PORTAL VEIN DOPPLER SIGNALS USING STFT AND AR MODELING IN THE CIRRHOTIC PORTAL HYPERTENSION PATIENTS. Experimental Techniques, 2007, 31, 51-56.	0.9	2

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91	A NEW HYBRID CLASSIFIER SYSTEM: INFORMATION GAIN-BASED ARTIFICIAL IMMUNE RECOGNITION SYSTEM. Experimental Techniques, 2007, 31, 36-43.	0.9	2
92	A new supervised classification algorithm in artificial immune systems with its application to carotid artery Doppler signals to diagnose atherosclerosis. Computer Methods and Programs in Biomedicine, 2007, 88, 246-255.	2.6	12
93	Complex-valued wavelet artificial neural network for Doppler signals classifying. Artificial Intelligence in Medicine, 2007, 40, 143-156.	3.8	21
94	Neural Network-Based Diagnosing for Optic Nerve Disease from Visual-Evoked Potential. Journal of Medical Systems, 2007, 31, 391-396.	2.2	8
95	Determining Fractal Dimension of Umbilical Artery Doppler Signals Using Hurst Exponent. Journal of Medical Systems, 2007, 31, 529-536.	2.2	4
96	Pattern Detection of Atherosclerosis from Carotid Artery Doppler Signals using Fuzzy Weighted Pre-Processing and Least Square Support Vector Machine (LSSVM). Annals of Biomedical Engineering, 2007, 35, 724-732.	1.3	18
97	Atrial fibrillation classification with artificial neural networks. Pattern Recognition, 2007, 40, 2967-2973.	5.1	70
98	Detection of gastric dysrhythmia using WT and ANN in diabetic gastroparesis patients. Computers in Biology and Medicine, 2006, 36, 276-290.	3.9	22
99	Utilization of artificial neural networks in the diagnosis of optic nerve diseases. Computers in Biology and Medicine, 2006, 36, 428-437.	3.9	24
100	Utilization of artificial neural networks and autoregressive modeling in diagnosing mitral valve stenosis. Computers in Biology and Medicine, 2006, 36, 473-483.	3.9	13
101	Comparison of fast Fourier transformation and autoregressive modelling as a diagnostic tool in analysis of lower extremity venous signals. Computers in Biology and Medicine, 2006, 36, 484-494.	3.9	1
102	Discontinuous doppler signals simulating respiratory misregistration: Effect on autoregressive frequency spectra. Computers in Biology and Medicine, 2006, 36, 465-472.	3.9	2
103	Estimation of wavelet and short-time Fourier transform sonograms of normal and diabetic subjects's electrogastrogram. Computers in Biology and Medicine, 2006, 36, 1289-1302.	3.9	24
104	Classification of electro-oculogram signals using artificial neural network. Expert Systems With Applications, 2006, 31, 199-205.	4.4	54
105	Recognition of early phase of atherosclerosis using principles component analysis and artificial neural networks from carotid artery Doppler signals. Expert Systems With Applications, 2006, 31, 643-651.	4.4	30
106	Low-Cost Compact ECG With Graphic LCD and Phonocardiogram System Design. Journal of Medical Systems, 2006, 30, 205-209.	2.2	15
107	Diagnosis of the macular diseases from pattern electroretinography signals using artificial neural networks. Expert Systems With Applications, 2006, 30, 361-366.	4.4	13
108	Comparison of multilayer perceptron training algorithms for portal venous doppler signals in the cirrhosis disease. Expert Systems With Applications, 2006, 31, 406-413.	4.4	33

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109	A Novel Approach to Resource Allocation Mechanism in Artificial Immune Recognition System: Fuzzy Resource Allocation Mechanism and Application to Diagnosis of Atherosclerosis Disease. Lecture Notes in Computer Science, 2006, , 244-255.	1.0	6
110	Detection of atherosclerosis using autoregressive modelling and principles component analysis to carotid artery Doppler signals. Bio-Medical Materials and Engineering, 2006, 16, 269-77.	0.4	2
111	Detection of femoral artery occlusion from spectral density of Doppler signals using the artificial neural network. Expert Systems With Applications, 2005, 29, 945-952.	4.4	10
112	Comparison of the autoregressive modeling and fast Fourier transformation in demonstrating Doppler spectral waveform changes in the early phase of atherosclerosis. Computers in Biology and Medicine, 2005, 35, 57-66.	3.9	15
113	Imaging System for Visualization and Numerical Analysis of Cancer at Stomach and Skin Tissues. Journal of Medical Systems, 2005, 29, 179-185.	2.2	1
114	Estimating Gastric Rhythm Differences Using a Wavelet Method from the Electrogastragrams of Normal and Diabetic Subjects. Instrumentation Science and Technology, 2005, 33, 519-532.	0.9	8
115	Comparison of an Eigenvector Music Method with Classical FFT and Model Based AR Methods in the Analysis of Mitral Valve Doppler Signals. Instrumentation Science and Technology, 2005, 33, 575-595.	0.9	0
116	Determination of Femoral Artery Occlusion Using Principal Component Analysis of Doppler Signals. Instrumentation Science and Technology, 2005, 33, 329-338.	0.9	1
117	Investigation of a new heart contractility power parameter. Computer Methods and Programs in Biomedicine, 2004, 76, 177-180.	2.6	3
118	Sphincter muscle stimulator to be used before treating anal atresia. Journal of Medical Systems, 2003, 27, 475-478.	2.2	0
119	Low-cost instrumentation for the diagnosis of Hirschsprung's disease. Journal of Medical Systems, 2003, 27, 157-162.	2.2	7
120	Diagnosis of heart valve stenosis through the use of artificial neural networks. , 2003, , .		0
121	Application of autoregressive and Fast Fourier Transform spectral analysis to tricuspid and mitral valve stenosis. Computer Methods and Programs in Biomedicine, 1996, 49, 29-36.	2.6	37
122	A low-cost biotelemetry system for long time monitoring of physiological data. Journal of Medical Systems, 1996, 20, 151-156.	2.2	5
123	Application of autoregressive analysis to 20 MHz pulsed Doppler data in real time. International Journal of Bio-medical Computing, 1992, 31, 247-256.	0.5	9
124	Case follow-up study the patients undergoing metallic heart valves replacement through phonocardiographic analysis. , 0, , .		1
125	Detection of mitral stenosis by a pulsed Doppler flowmeter and autoregressive spectral analysis method. , 0, , .		4
126	Time-dependent ARMA modeling of continuous wave ultrasonic Doppler signals. , 0, , .		1



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127	Time-varying parametric modeling and simulation of ultrasonic Doppler signals. , 0, , .		0
128	Computer supported Pourcelot's resistance index and S/D ratio measurement of blood flow. , 0, , .		1