

# Sandor M Szilagyi

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

771  
citations

1039880

9  
h-index

752573

20  
g-index

76  
all docs

76  
docs citations

76  
times ranked

738  
citing authors

#	ARTICLE	IF	CITATIONS
1	MR brain image segmentation using an enhanced fuzzy C-means algorithm. , 0, , .		242
2	Evolution of Emissionâ€Line Activity in Intermediateâ€Mass Young Stars. <i>Astrophysical Journal</i> , 2006, 653, 657-674.	1.6	125
3	Inference of Evolutionary Jumps in Large Phylogenies using LÃ©vy Processes. <i>Systematic Biology</i> , 2017, 66, 950-963.	2.7	47
4	Efficient inhomogeneity compensation using fuzzy c-means clustering models. <i>Computer Methods and Programs in Biomedicine</i> , 2012, 108, 80-89.	2.6	36
5	Intensity inhomogeneity compensation and segmentation of MR brain images using hybrid c-means clustering models. <i>Biomedical Signal Processing and Control</i> , 2011, 6, 3-12.	3.5	32
6	Generalization rules for the suppressed fuzzy c-means clustering algorithm. <i>Neurocomputing</i> , 2014, 139, 298-309.	3.5	26
7	Wavelet transform and neural-network-based adaptive filtering for QRS detection. , 0, , .		18
8	Analytical and numerical evaluation of the suppressed fuzzy c-means algorithm: a study on the competition in c-means clustering models. <i>Soft Computing</i> , 2010, 14, 495-505.	2.1	17
9	A fast hierarchical clustering algorithm for large-scale protein sequence data sets. <i>Computers in Biology and Medicine</i> , 2014, 48, 94-101.	3.9	16
10	A Modified Fuzzy C-Means Algorithm for MR Brain Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2007, , 866-877.	1.0	14
11	A modified Markov clustering approach to unsupervised classification of protein sequences. <i>Neurocomputing</i> , 2010, 73, 2332-2345.	3.5	10
12	A patient specific electro-mechanical model of the heart. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 101, 183-200.	2.6	10
13	Heart model based ECG signal processing. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003, 36, 213-217.	0.4	9
14	Visual Object Detection with DETR to Support Video-Diagnosis Using Conference Tools. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5977.	1.3	9
15	Event recognition, separation and classification from ECG recordings. , 0, , .		8
16	Adaptive wavelet-transform-based ECG waveforms detection. , 0, , .		8
17	Quick ECG Analysis for On-Line Holter Monitoring Systems. , 2006, 2006, 1678-81.		8
18	A Modified FCM Algorithm for Fast Segmentation of Brain MR Images. , 2007, , 119-127.		8

#	ARTICLE	IF	CITATIONS
19	Efficient Feature Extraction for Fast Segmentation of MR Brain Images. , 2007, , 611-620.		8
20	The limits of heart-model-based computerized ECG diagnosis. , 0, , .		6
21	On-line QRS complex detection using wavelet filtering. , 0, , .		6
22	Iterative ECG signal filtering for better malfunction recognition and diagnosis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 295-300.	0.4	6
23	Fast color reduction using approximative c-means clustering models. , 2014, , .		6
24	Impact of inflammation-mediated response on pan-coronary plaque vulnerability, myocardial viability and ventricular remodeling in the postinfarction period - the VIABILITY study. Medicine (United States), 2019, 98, e15194.	0.4	6
25	Analytical and Numerical Evaluation of the Suppressed Fuzzy C-Means Algorithm. Lecture Notes in Computer Science, 2008, , 146-157.	1.0	6
26	Self-Tuning Possibilistic <i>c</i> -Means Clustering Models. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2019, 27, 143-159.	0.9	5
27	Volumetric Analysis of the Heart Using Echocardiography. , 2007, , 81-90.		5
28	ECG signal compression using adaptive prediction. , 0, , .		4
29	A new method for epileptic waveform recognition using wavelet decomposition and artificial neural networks. , 0, , .		4
30	Multi-stage FCM-Based Intensity Inhomogeneity Correction for MR Brain Image Segmentation. Lecture Notes in Computer Science, 2008, , 527-536.	1.0	4
31	Improved Intensity Inhomogeneity Correction Techniques in MR Brain Image Segmentation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 9625-9630.	0.4	4
32	A modified two-stage Markov clustering algorithm for large and sparse networks. Computer Methods and Programs in Biomedicine, 2016, 135, 15-26.	2.6	4
33	Review. Automatic Segmentation Techniques of the Coronary Artery Using CT Images in Acute Coronary Syndromes. Journal of Cardiovascular Emergencies, 2017, 3, 9-17.	0.1	4
34	Application of the Fuzzy-Possibilistic Product Partition in Elliptic Shell Clustering. Lecture Notes in Computer Science, 2014, , 158-169.	1.0	4
35	Comparison of the neural-network-based adaptive filtering and wavelet transform for R, T and P waves detection. , 0, , .		3
36	Biomedical engineering education in Hungary. , 0, , .		3

#	ARTICLE	IF	CITATIONS
37	Quick QRS Complex Detection for On-Line ECG and Holter Systems. , 2005, 2005, 3906-8.		3
38	Automatic Brain Tumor Segmentation in Multispectral MRI Volumes Using a Random Forest Approach. Lecture Notes in Computer Science, 2018, , 137-149.	1.0	3
39	A novel ECG telemetry and monitoring system based on Z-Wave communication. , 2008, 2008, 2361-4.		2
40	A unified approach to c-means clustering models. , 2009, , .		2
41	Hypoxia Modelling in Ventricular Cells Using Beeler-Reuter Model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 426-431.	0.4	2
42	Efficient Markov clustering algorithm for protein sequence grouping. , 2013, 2013, 639-42.		2
43	Comparison of various improved-partition fuzzy c-means clustering algorithms in fast color reduction. , 2014, , .		2
44	Spatial Heart Simulation and Analysis Using Unified Neural Network. , 2007, , 346-354.		2
45	A Generalized Approach to the Suppressed Fuzzy c-Means Algorithm. Lecture Notes in Computer Science, 2010, , 140-151.	1.0	2
46	A Thorough Analysis of the Suppressed Fuzzy C-Means Algorithm. Lecture Notes in Computer Science, 2008, , 203-210.	1.0	2
47	Synthetic Test Data Generation for Hierarchical Graph Clustering Methods. Lecture Notes in Computer Science, 2014, , 303-310.	1.0	2
48	Inhomogeneity compensation for MR brain image segmentation using a multi-stage FCM-based approach. , 2008, 2008, 3896-9.		1
49	A generalized c-means clustering model using optimized via evolutionary computation. , 2009, , .		1
50	Spatial Visualization of the Heart in Case of Ectopic Beats and Fibrillation. , 2007, , 548-561.		1
51	An Efficient Approach to Intensity Inhomogeneity Compensation Using c-Means Clustering Models. Lecture Notes in Computer Science, 2011, , 312-319.	1.0	1
52	Efficient 3D Curve Skeleton Extraction from Large Objects. Lecture Notes in Computer Science, 2011, , 133-140.	1.0	1
53	A Fast and Memory-Efficient Hierarchical Graph Clustering Algorithm. Lecture Notes in Computer Science, 2014, , 247-254.	1.0	1
54	A Study on Cluster Size Sensitivity of Fuzzy c-Means Algorithm Variants. Lecture Notes in Computer Science, 2016, , 470-478.	1.0	1

#	ARTICLE	IF	CITATIONS
55	Automated Medical Image Processing Methods for Virtual Endoscopy. , 2007, , 2383-2387.		1
56	Echocardiographic Image Sequence Compression Based on Spatial Active Appearance Model. , 2007, , 841-850.		1
57	Comparison Between Neural-Network-Based Adaptive Filtering and Wavelet Transform for Ecg Characteristic Points Detection. , 1997, , .		0
58	Efficient ECG signal compression using adaptive heart model. , 0, , .		0
59	Comparison of malfunction diagnosis sensibility for direct and inverse ECG signal processing methods. , 0, , .		0
60	Brain image segmentation for virtual endoscopy. , 2004, 2004, 1730-2.		0
61	3D Heart Simulation And Recognition Of Various Events. , 2005, 2005, 4038-41.		0
62	Sensibility analysis of the Arruda localization method. , 2006, 2006, 3998-4001.		0
63	Adaptive ECG Compression Using Support Vector Machine. , 2007, , 594-603.		0
64	Application of Hybrid c-Means Clustering Models in Inhomogeneity Compensation and MR Brain Image Segmentation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 204-209.	0.4	0
65	An enhanced method for accessory pathway localization in case of Wolff-Parkinson-White syndrome. Acta Physiologica Hungarica, 2011, 98, 347-358.	0.9	0
66	An Enhanced Accessory Pathway Localization Method for Efficient Treatment of Wolff-Parkinson-White Syndrome. Lecture Notes in Computer Science, 2008, , 269-276.	1.0	0
67	Application of Hybrid C-Means Clustering Models in Inhomogeneity Compensation and MR Brain Image Segmentation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, , .	0.4	0
68	A Weighted Patient Specific Electromechanical Model of the Heart. , 2009, , .		0
69	Quick ECG Segmentation, Artifact Detection and Risk Estimation Methods for On-Line Holter Monitoring Systems. , 2007, , 1021-1025.		0
70	Unified Neural Network Based Pathologic Event Reconstruction Using Spatial Heart Model. , 2007, , 851-860.		0