

Michał, H Strzelecki

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1965509/publications.pdf>

Version: 2024-02-01

91
papers

1,942
citations

567281

15
h-index

276875

41
g-index

97
all docs

97
docs citations

97
times ranked

2374
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational Fluid Dynamics as an Engineering Tool for the Reconstruction of Endovascular Prosthesis Endoleaks. IEEE Access, 2022, 10, 18873-18885.	4.2	3
2	Machine Learning for Biomedical Application. Applied Sciences (Switzerland), 2022, 12, 2022.	2.5	11
3	Effect of Matrix Size Reduction on Textural Information in Clinical Magnetic Resonance Imaging. Journal of Clinical Medicine, 2022, 11, 2526.	2.4	3
4	Classifying median nerves in carpal tunnel syndrome: Ultrasound image analysis. Biocybernetics and Biomedical Engineering, 2021, 41, 335-351.	5.9	13
5	Skin Lesion Detection Algorithms in Whole Body Images. Sensors, 2021, 21, 6639.	3.8	16
6	Computational Fluid Dynamic Technique for Assessment of How Changing Character of Blood Flow and Different Value of Hct Influence Blood Hemodynamic in Dissected Aorta. Diagnostics, 2021, 11, 1866.	2.6	14
7	Differential Diagnosis of Cysts and Granulomas Supported by Texture Analysis of Intraoral Radiographs. Sensors, 2021, 21, 7481.	3.8	8
8	Spatial Configuration of Abdominal Aortic Aneurysm Analysis as a Useful Tool for the Estimation of Stent-Graft Migration. Diagnostics, 2020, 10, 737.	2.6	6
9	A Multi-Layer Perceptron Network for Perfusion Parameter Estimation in DCE-MRI Studies of the Healthy Kidney. Applied Sciences (Switzerland), 2020, 10, 5525.	2.5	8
10	Shape and Enhancement Analysis as a Useful Tool for the Presentation of Blood Hemodynamic Properties in the Area of Aortic Dissection. Journal of Clinical Medicine, 2020, 9, 1330.	2.4	6
11	Does image normalization and intensity resolution impact texture classification?. Computerized Medical Imaging and Graphics, 2020, 81, 101716.	5.8	69
12	Pneumonia detection in X-ray chest images based on convolutional neural networks and data augmentation methods. , 2020, , .		8
13	On the Influence of Image Features Wordlength Reduction on Texture Classification. Advances in Intelligent Systems and Computing, 2019, , 15-26.	0.6	7
14	A novel vision-based system for quantitative analysis of abdominal aortic aneurysm deformation. BioMedical Engineering OnLine, 2019, 18, 56.	2.7	13
15	Influence of Acquisition Time on MR Image Quality Estimated with Nonparametric Measures Based on Texture Features. BioMed Research International, 2019, 2019, 1-10.	1.9	12
16	Functional Thermal Imaging of Skin Tissue Using the Discrete Thermal Time Constants Spectrum. Advances in Intelligent Systems and Computing, 2019, , 3-12.	0.6	0
17	Thermal modelling and screening method for skin pathologies using active thermography. Biocybernetics and Biomedical Engineering, 2018, 38, 602-610.	5.9	16
18	An artificial neural network for GFR estimation in the DCE-MRI studies of the kidneys. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	On the influence of the image normalization scheme on texture classification accuracy. , 2018, , .		6
20	Hybrid no-propagation learning for multilayer neural networks. Neurocomputing, 2018, 321, 28-35.	5.9	29
21	Simulation of phase contrast angiography for renal arterial models. BioMedical Engineering OnLine, 2018, 17, 41.	2.7	6
22	Computational Fluid Dynamics as an Engineering Tool for the Reconstruction of Hemodynamics after Carotid Artery Stenosis Operation: A Case Study. Medicina (Lithuania), 2018, 54, 42.	2.0	42
23	Lytic Region Recognition in Hip Radiograms by Means of Statistical Dominance Transform. Lecture Notes in Computer Science, 2018, , 349-360.	1.3	1
24	Numerical simulation of the b-SSFP sequence in MR perfusion-weighted imaging of the kidney. , 2018, , .		0
25	3D vascular tree segmentation using a multiscale vesselness function and a level set approach. Biocybernetics and Biomedical Engineering, 2017, 37, 66-77.	5.9	13
26	Investigation of Bi-Gaussian kernel for vessel detection in level-set based segmentation framework. , 2017, , .		0
27	FPGA-Based System for Fast Image Segmentation Inspired by the Network of Synchronized Oscillators. Lecture Notes in Computer Science, 2017, , 580-590.	1.3	2
28	3D Blood Vessels Reconstruction Based on Segmented CT Data for Further Simulations of Hemodynamic in Human Artery Branches. Foundations of Computing and Decision Sciences, 2017, 42, 359-371.	1.2	19
29	A Neural Network Circuit Development via Software-Based Learning and Circuit-Based Fine Tuning. Lecture Notes in Computer Science, 2017, , 216-228.	1.3	0
30	Parameter set for computer-assisted texture analysis of fetal brain. BMC Research Notes, 2016, 9, 496.	1.4	20
31	Analysis of myocardial texture in resting echocardiographic images predicts recovery one year after myocardial infarction. , 2016, , .		1
32	MeMoS – A software tool for extraction of anatomical structures data from 3D medical images. , 2016, , .		2
33	Evaluating an algorithm for 3D reconstruction of blood vessels for further simulations of hemodynamic in human artery branches. , 2016, , .		11
34	Evaluation of Perfusion and Thermal Parameters of Skin Tissue Using Cold Provocation and Thermographic Measurements. Metrology and Measurement Systems, 2016, 23, 373-381.	1.4	7
35	Blue Whitish Veil, Atypical Vascular Pattern and Regression Structures Detection in Skin Lesions Images. Lecture Notes in Computer Science, 2016, , 418-428.	1.3	0
36	A THREE LAYER MODEL FOR THE THERMAL IMPEDANCE OF THE HUMAN SKIN: MODELING AND EXPERIMENTAL MEASUREMENTS. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550044.	0.7	13

#	ARTICLE	IF	CITATIONS
37	Nevus atypical pigment network distinction and irregular streaks detection in skin lesions images. , 2015, , .		4
38	Thermal-time constant imaging in cold-stress screening. , 2015, , .		2
39	On The Effect Of Image Brightness And Contrast Nonuniformity On Statistical Texture Parameters. Foundations of Computing and Decision Sciences, 2015, 40, 163-185.	1.2	9
40	Segmentation of 3D magnetic resonance brain vessel images based on level set approaches. , 2015, , .		3
41	Numerical Modeling of MR Angiography for Quantitative Validation of Image-Driven Assessment of Carotid Stenosis. IEEE Transactions on Nuclear Science, 2015, 62, 619-627.	2.0	7
42	System and software for thermal images screening in medicine " application to psoriasis. Quantitative InfraRed Thermography Journal, 2015, 12, 127-136.	4.2	3
43	Test Procedures for Synchronized Oscillators Network CMOS VLSI Chip. International Journal of Electronics and Telecommunications, 2015, 61, 101-107.	0.6	0
44	Computer Simulation of Magnetic Resonance Angiography Imaging: Model Description and Validation. PLoS ONE, 2014, 9, e93689.	2.5	25
45	Numerical modeling of MR angiography for validation of image-driven quantitative diagnosis of intracranial aneurysm and carotid stenosis. EJMAMI Physics, 2014, 1, A63.	2.7	1
46	Model Based Approach for Melanoma Segmentation. Lecture Notes in Computer Science, 2014, , 347-355.	1.3	7
47	Analysis of the Hand's Small Vessels Based on MR Angiography and Level-Set Approach. Lecture Notes in Computer Science, 2014, , 618-625.	1.3	0
48	Examination of the application of quantitative analysis of CT brain images in ischaemic stroke and brain tumour detection " preliminary test. Aktualnosci Neurologiczne, 2014, 14, 89-95.	0.1	0
49	A software tool for automatic classification and segmentation of 2D/3D medical images. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 702, 137-140.	1.6	173
50	Obstacle Avoidance Procedure and Lee Algorithm Based Path Replanner for Autonomous Mobile Platforms. International Journal of Electronics and Telecommunications, 2013, 59, 85-91.	0.5	4
51	An attempt toward objective assessment of brain tumor vascularization using susceptibility weighted imaging and dedicated computer program " a preliminary study. Polski Przegląd Radiologii I Medycyny Nuklearnej, 2013, 78, 50-56.	1.0	6
52	Lee-algorithm based path replanner for dynamic environments. , 2012, , .		6
53	Lee Path Replanner for Partially-Known Environments. Lecture Notes in Computer Science, 2012, , 332-342.	1.3	0
54	Quantification of the Myocardial Viability Based on Texture Parameters of Contrast Ultrasound Images. Lecture Notes in Computer Science, 2012, , 641-648.	1.3	1

#	ARTICLE	IF	CITATIONS
55	Analysis of Three-dimensional Magnetic Resonance Human Liver Images. IETE Journal of Research, 2011, 57, 237.	2.6	3
56	Implementation of a Synchronized Oscillator Circuit for Fast Sensing and Labeling of Image Objects. Sensors, 2011, 11, 3401-3417.	3.8	5
57	An Intelligent Automated Recognition System of Abnormal Structures in WCE Images. Lecture Notes in Computer Science, 2011, , 140-147.	1.3	5
58	Stereovision-Based Obstacle Avoidance Procedure for Autonomous Mobile Platforms. Lecture Notes in Computer Science, 2011, , 206-213.	1.3	2
59	Textures in magnetic resonance images of the ischemic rat brain treated with an anti-inflammatory agent. Clinical Imaging, 2010, 34, 7-13.	1.5	5
60	Analysis of biomédical textured images with application of synchronized oscillator-based CNN. , 2010, , .		0
61	Arteries tracking in simultaneous TOF-SWI MR images: image characteristics and preliminary results. , 2009, , .		1
62	Level-set segmentation of noisy 3D images of numerically simulated blood vessels and vascular trees. , 2009, , .		4
63	MaZdaéA software package for image texture analysis. Computer Methods and Programs in Biomedicine, 2009, 94, 66-76.	4.7	583
64	Monitoring the survival of islet transplants by MRI using a novel technique for their automated detection and quantification. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2009, 22, 257-265.	2.0	49
65	Road Lane Detection with Elimination of High-Curvature Edges. Lecture Notes in Computer Science, 2009, , 33-42.	1.3	3
66	MaZda éThe Software Package for Textural Analysis of Biomedical Images. Advances in Intelligent and Soft Computing, 2009, , 73-84.	0.2	11
67	Modele pulsujÅcych sieci neuronowych i ich zastosowania. , 2009, , .		0
68	Segmentation of Biomedical Images Using Network of Synchronized Oscillators. Advances in Intelligent and Soft Computing, 2009, , 63-72.	0.2	0
69	Application of Neural Networks for the Analysis of Intravascular Ultrasound and Histological Aortic Wall AppearanceéAn In Vitro Tissue Characterization Study. Ultrasound in Medicine and Biology, 2008, 34, 103-113.	1.5	18
70	32x32 oscillator network chip for binary image segmentation. , 2008, , .		1
71	A NEW CNN OSCILLATOR MODEL FOR PARALLEL IMAGE SEGMENTATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1999-2015.	1.7	4
72	Localization for Mobile Robot Navigation using Color Patches Installed on the Ceiling. Journal of Institute of Control, Robotics and Systems, 2008, 14, 156-160.	0.2	1

#	ARTICLE	IF	CITATIONS
73	Application of Poincare Map-Based Description of Vowel Pronunciation Variability for Emotion Assessment in Speech Signal. , 2007, , .		4
74	Segmentation of 3D MR Liver Images Using Synchronised Oscillators Network. , 2007, , .		9
75	Automatic Detection of Pancreatic Islets in Magnetic Resonance Rat Liver Images. , 2007, , .		1
76	Object Representation Using Geodesic Levels. , 2007, , .		2
77	A Virtual Keypad Based on Alternate Half-Field Stimulated Visual Evoked Potentials. , 2007, , .		14
78	Mazda - a software for texture analysis. , 2007, , .		58
79	Analysis of Microscopic Mast Cell Images Based on Network of Synchronised Oscillators. Lecture Notes in Computer Science, 2007, , 346-354.	1.3	1
80	Classification and segmentation of intracardiac masses in cardiac tumor echocardiograms. Computerized Medical Imaging and Graphics, 2006, 30, 95-107.	5.8	25
81	Evaluation of texture features based on mutual information. Proc Int Symp Image Signal Process Anal, 2005, , .	0.0	4
82	Texture boundary detection using network of synchronised oscillators. Electronics Letters, 2004, 40, 466.	1.0	20
83	Influence of MRI acquisition protocols and image intensity normalization methods on texture classification. Magnetic Resonance Imaging, 2004, 22, 81-91.	1.8	448
84	P1120 Validation of neural network-based approach to identification of intracardiac masses. European Heart Journal, 2003, 24, 204.	2.2	0
85	Artificial Neural Network Mixed-Signal Prototype System for Model Parameter Identification. , 1998, , 97-102.		0
86	Parametric testing of mixed-signal circuits by ANN processing of transient responses. Journal of Electronic Testing: Theory and Applications (JETTA), 1996, 9, 187-202.	1.2	10
87	Thermal parameter extraction for screening procedure of skin pathologies based on the cold provocation. , 0, , .		1
88	Prenatal brain MRI samples for development of automatic segmentation, target-recognition and machine-learning algorithms to detect anatomical structures. F1000Research, 0, 6, 93.	1.6	0
89	Texture analysis of the developing human brain using customization of a knowledge-based system. F1000Research, 0, 6, 40.	1.6	2
90	Prenatal brain MRI samples for development of automatic segmentation, target-recognition, and machine-learning algorithms to detect anatomical structures. F1000Research, 0, 6, 93.	1.6	0

#	ARTICLE	IF	CITATIONS
91	Texture analysis of the developing human brain using customization of a knowledge-based system. F1000Research, 0, 6, 40.	1.6	0