# MichaÅ, H Strzelecki

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | MaZdaâ€"A software package for image texture analysis. Computer Methods and Programs in Biomedicine, 2009, 94, 66-76. | 4.7 | 583 |
| 2 | Influence of MRI acquisition protocols and image intensity normalization methods on texture classification. Magnetic Resonance Imaging, 2004, 22, 81-91. | 1.8 | 448 |
| 3 | 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 |
| 4 | Does image normalization and intensity resolution impact texture classification?. Computerized Medical Imaging and Graphics, 2020, 81, 101716. | 5.8 | 69 |
| 5 | Mazda - a software for texture analysis. , 2007, , . | | 58 |
| 6 | 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 |
| 7 | 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 |
| 8 | Hybrid no-propagation learning for multilayer neural networks. Neurocomputing, 2018, 321, 28-35. | 5.9 | 29 |
| 9 | Classification and segmentation of intracardiac masses in cardiac tumor echocardiograms. Computerized Medical Imaging and Graphics, 2006, 30, 95-107. | 5.8 | 25 |
| 10 | Computer Simulation of Magnetic Resonance Angiography Imaging: Model Description and Validation. PLoS ONE, 2014, 9, e93689. | 2.5 | 25 |
| 11 | Texture boundary detection using network of synchronised oscillators. Electronics Letters, 2004, 40, 466. | 1.0 | 20 |
| 12 | Parameter set for computer-assisted texture analysis of fetal brain. BMC Research Notes, 2016, 9, 496. | 1.4 | 20 |
| 13 | 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 |
| 14 | Application of Neural Networks for the Analysis of Intravascular Ultrasound and Histological Aortic Wall Appearanceâ€"An In Vitro Tissue Characterization Study. Ultrasound in Medicine and Biology, 2008, 34, 103-113. | 1.5 | 18 |
| 15 | Thermal modelling and screening method for skin pathologies using active thermography. Biocybernetics and Biomedical Engineering, 2018, 38, 602-610. | 5.9 | 16 |
| 16 | Skin Lesion Detection Algorithms in Whole Body Images. Sensors, 2021, 21, 6639. | 3.8 | 16 |
| 17 | A Virtual Keypad Based on Alternate Half-Field Stimulated Visual Evoked Potentials. , 2007, , . | | 14 |
| 18 | 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 |

| # | Article | IF | Citations |
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| 19 | 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 |
| 20 | 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 |
| 21 | A novel vision-based system for quantitative analysis of abdominal aortic aneurysm deformation. BioMedical Engineering OnLine, 2019, 18, 56. | 2.7 | 13 |
| 22 | Classifying median nerves in carpal tunnel syndrome: Ultrasound image analysis. Biocybernetics and Biomedical Engineering, 2021, 41, 335-351. | 5.9 | 13 |
| 23 | 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 |
| 24 | Evaluating an algorithm for 3D reconstruction of blood vessels for further simulations of hemodynamic in human artery branches. , 2016, , . | | 11 |
| 25 | MaZda â€“ The Software Package for Textural Analysis of Biomedical Images. Advances in Intelligent and Soft Computing, 2009, , 73-84. | 0.2 | 11 |
| 26 | Machine Learning for Biomedical Application. Applied Sciences (Switzerland), 2022, 12, 2022. | 2.5 | 11 |
| 27 | 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 |
| 28 | Segmentation of 3D MR Liver Images Using Synchronised Oscillators Network. , 2007, , . | | 9 |
| 29 | 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 |
| 30 | 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 |
| 31 | Pneumonia detection in X-ray chest images based on convolutional neural networks and data augmentation methods. , 2020, , . | | 8 |
| 32 | Differential Diagnosis of Cysts and Granulomas Supported by Texture Analysis of Intraoral Radiographs. Sensors, 2021, 21, 7481. | 3.8 | 8 |
| 33 | 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 |
| 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 | On the Influence of Image Features Wordlength Reduction on Texture Classification. Advances in Intelligent Systems and Computing, 2019, , 15-26. | 0.6 | 7 |
| 36 | Model Based Approach for Melanoma Segmentation. Lecture Notes in Computer Science, 2014, , 347-355. | 1.3 | 7 |

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| 37 | Lee-algorithm based path replanner for dynamic environments. , 2012, , . | | 6 |
| 38 | On the influence of the image normalization scheme on texture classification accuracy. , 2018, , . | | 6 |
| 39 | Simulation of phase contrast angiography for renal arterial models. BioMedical Engineering OnLine, 2018, 17, 41. | 2.7 | 6 |
| 40 | 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 |
| 41 | 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 |
| 42 | An attempt toward objective assessment of brain tumor vascularization using susceptibility weighted imaging and dedicated computer program â€“ a preliminary study. Polski Przeglad Radiologii I Medycyny Nuklearnej, 2013, 78, 50-56. | 1.0 | 6 |
| 43 | 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 |
| 44 | Implementation of a Synchronized Oscillator Circuit for Fast Sensing and Labeling of Image Objects. Sensors, 2011, 11, 3401-3417. | 3.8 | 5 |
| 45 | An Intelligent Automated Recognition System of Abnormal Structures in WCE Images. Lecture Notes in Computer Science, 2011, , 140-147. | 1.3 | 5 |
| 46 | Evaluation of texture features based on mutual information. Proc Int Symp Image Signal Process Anal, 2005, , . | 0.0 | 4 |
| 47 | Application of Poincare Map-Based Description of Vowel Pronunciation Variability for Emotion Assessment in Speech Signal. , 2007, , . | | 4 |
| 48 | 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 |
| 49 | Level-set segmentation of noisy 3D images of numerically simulated blood vessels and vascular trees. , 2009, , . | | 4 |
| 50 | Nevus atypical pigment network distinction and irregular streaks detection in skin lesions images. , 2015, , . | | 4 |
| 51 | 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 |
| 52 | Analysis of Three-dimensional Magnetic Resonance Human Liver Images. IETE Journal of Research, 2011, 57, 237. | 2.6 | 3 |
| 53 | Segmentation of 3D magnetic resonance brain vessel images based on level set approaches. , 2015, , . | | 3 |
| 54 | System and software for thermal images screening in medicine â€“ application to psoriasis. Quantitative InfraRed Thermography Journal, 2015, 12, 127-136. | 4.2 | 3 |

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| 55 | Road Lane Detection with Elimination of High-Curvature Edges. Lecture Notes in Computer Science, 2009, , 33-42. | 1.3 | 3 |
| 56 | Computational Fluid Dynamics as an Engineering Tool for the Reconstruction of Endovascular Prosthesis Endoleaks. IEEE Access, 2022, 10, 18873-18885. | 4.2 | 3 |
| 57 | Effect of Matrix Size Reduction on Textural Information in Clinical Magnetic Resonance Imaging. Journal of Clinical Medicine, 2022, 11, 2526. | 2.4 | 3 |
| 58 | Object Representation Using Geodesic Levels. , 2007, , . | | 2 |
| 59 | Thermal-time constant imaging in cold-stress screening. , 2015, , . | | 2 |
| 60 | MeMoS â€" A software tool for extraction of anatomical structures data from 3D medical images. , 2016, , . | | 2 |
| 61 | 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 |
| 62 | Stereovision-Based Obstacle Avoidance Procedure for Autonomous Mobile Platforms. Lecture Notes in Computer Science, 2011, , 206-213. | 1.3 | 2 |
| 63 | Texture analysis of the developing human brain using customization of a knowledge-based system. F1000Research, 0, 6, 40. | 1.6 | 2 |
| 64 | Automatic Detection of Pancreatic Islets in Magnetic Resonance Rat Liver Images. , 2007, , . | | 1 |
| 65 | 32x32 oscillator network chip for binary image segmentation. , 2008, , . | | 1 |
| 66 | Arteries tracking in simultaneous TOF-SWI MR images: image characteristics and preliminary results. , 2009, , . | | 1 |
| 67 | Numerical modeling of MR angiography for validation of image-driven quantitative diagnosis of intracranial aneurysm and carotid stenosis. EJNMMI Physics, 2014, 1, A63. | 2.7 | 1 |
| 68 | Analysis of myocardial texture in resting echocardiographic images predicts recovery one year after myocardial infarction. , 2016, , . | | 1 |
| 69 | Thermal parameter extraction for screening procedure of skin pathologies based on the cold provocation. , 0, , . | | 1 |
| 70 | 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 |
| 71 | Quantification of the Myocardial Viability Based on Texture Parameters of Contrast Ultrasound Images. Lecture Notes in Computer Science, 2012, , 641-648. | 1.3 | 1 |
| 72 | Lytic Region Recognition in Hip Radiograms by Means of Statistical Dominance Transform. Lecture Notes in Computer Science, 2018, , 349-360. | 1.3 | 1 |

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| 73 | Analysis of Microscopic Mast Cell Images Based on Network of Synchronised Oscillators. Lecture Notes in Computer Science, 2007, , 346-354. | 1.3 | 1 |
| 74 | Analysis of biomédical textured images with application of synchronized oscillator-based CNN. , 2010, , . | | 0 |
| 75 | 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 |
| 76 | Investigation of Bi-Gaussian kernel for vessel detection in level-set based segmentation framework. , 2017, , . | | 0 |
| 77 | An artificial neural network for GFR estimation in the DCE-MRI studies of the kidneys. , 2018, , . | | 0 |
| 78 | P1120 Validation of neural network-based approach to identification of intracardiac masses. European Heart Journal, 2003, 24, 204. | 2.2 | 0 |
| 79 | Modele pulsujÄ...cych sieci neuronowych i ich zastosowania. , 2009, , . | | 0 |
| 80 | Segmentation of Biomedical Images Using Network of Synchronized Oscillators. Advances in Intelligent and Soft Computing, 2009, , 63-72. | 0.2 | 0 |
| 81 | Lee Path Replanner for Partially-Known Environments. Lecture Notes in Computer Science, 2012, , 332-342. | 1.3 | 0 |
| 82 | Analysis of the Handâ€™s Small Vessels Based onÂMR Angiography and Level-Set Approach. Lecture Notes in Computer Science, 2014, , 618-625. | 1.3 | 0 |
| 83 | Artificial Neural Network Mixed-Signal Prototype System for Model Parameter Identification. , 1998, , 97-102. | | 0 |
| 84 | Examination of the application of quantitative analysis of CT brain images in ischaemic stroke and brain tumour detection â€“ preliminary test. Aktualnosci Neurologiczne, 2014, 14, 89-95. | 0.1 | 0 |
| 85 | Test Procedures for Synchronized Oscillators Network CMOS VLSI Chip. International Journal of Electronics and Telecommunications, 2015, 61, 101-107. | 0.6 | 0 |
| 86 | 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 |
| 87 | 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 |
| 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 | 0 |
| 90 | Numerical simulation of the b-SSFP sequence in MR perfusion-weighted imaging of the kidney. , 2018, , . | | 0 |

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| 91 | 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 |