Zygmunt WrÃ³bel

List of Publications by Year
in descending order

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88	686	516710 16	677142 22
papers	citations	h-index	g-index

92	92	92	817
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The bone microstructure from anterior cruciate ligament footprints is similar after ligament reconstruction and does not affect long-term outcomes. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 260-269.	4.2	0
2	The Object Segmentation from the Microstructure of a FSW Dissimilar Weld. Materials, 2022, 15, 1129.	2.9	0
3	Analysis of microtomographic images in automatic defect localization and detection. Machine Vision and Applications, 2020, 31, 1.	2.7	0
4	Segmentation of Three-Dimensional Images of the Butterfly Wing Surface. Advances in Intelligent Systems and Computing, 2019, , 111-121.	0.6	0
5	Reconstruction of Gigapixel Stereometric Maps of Ceramic Surfaces. Advances in Intelligent Systems and Computing, 2019, , 101-110.	0.6	0
6	Limitations of Corneal Deformation Modelling During IOP Measurement â€“ A Review. Advances in Intelligent Systems and Computing, 2019, , 469-480.	0.6	1
7	Modelling the degree of porosity of the ceramic surface intended for implants. Biomedizinische Technik, 2019, 64, 215-223.	0.8	0
8	A rehabilitation system for monitoring torso movements using an inertial sensor. , 2019, , .		1
9	Bioresorbable Stent in Anterior Cruciate Ligament Reconstruction. Polymers, 2019, 11, 1961.	4.5	13
10	Respiratory monitoring system using Bluetooth Low Energy. Sensors and Actuators A: Physical, 2019, 286, 152-162.	4.1	11
11	Inertial Motion Capture System with an Adaptive Control Algorithm. Advances in Intelligent Systems and Computing, 2019, , 67-74.	0.6	0
12	Computer Analysis of Chest X-Ray Images to Highlight Pathological Objects. Advances in Intelligent Systems and Computing, 2019, , 12-19.	0.6	0
13	Differences between sexes in the standard and advanced dimensioning of lateral meniscal allografts. Knee, 2018, 25, 8-14.	1.6	2
14	The matching method for veins images. Computerized Medical Imaging and Graphics, 2018, 65, 22-31.	5.8	4
15	An adaptive transmission algorithm for an inertial motion capture system in the aspect of energy saving. , 2018, , .		2
16	Image Processing and Analysis in Lung Cancer Cells Growth. Advances in Intelligent Systems and Computing, 2018, , 346-356.	0.6	0
17	Automatic segmentation of lung cancer cells with the new parameters by using methods of image processing and analysis. Advances in Intelligent Systems and Computing, 2018, , 13-21.	0.6	0
18	New automatic method for analysis and correction of image data from the Corvis tonometer. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, 5, 27-35.	1.9	6

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19	Microscaleâ€™s relationship between Youngâ€™s modulus and tissue density. Prediction of displacements. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 1658-1668.	1.6	4
20	Bone tunnel enlargement following hamstring anterior cruciate ligament reconstruction: a comprehensive review. Physician and Sportsmedicine, 2017, 45, 31-40.	2.1	29
21	The Matching Method for Rectified Stereo Images Based on Minimal Element Distance andÂRGB Component Analysis. Lecture Notes in Computer Science, 2016, , 482-493.	1.3	2
22	Rapid dynamic changes of the geometry of the anterior segment of the eye: A method of automatic spatial correction of a temporal sequence of OCT images. Computers in Biology and Medicine, 2016, 72, 132-137.	7.0	2
23	Assessment of possibilities of ceramic biomaterial fracture surface reconstruction using laser confocal microscopy and long working distance objective lenses. Microscopy Research and Technique, 2016, 79, 385-392.	2.2	6
24	Integrated micro power frequency breath detector. Sensors and Actuators A: Physical, 2016, 239, 79-89.	4.1	9
25	Lip Print Pattern Extraction Using Top-Hat Transform. Advances in Intelligent Systems and Computing, 2016, , 337-346.	0.6	2
26	The Fast Matching Algorithm for Rectified Stereo Images. Advances in Intelligent Systems and Computing, 2016, , 107-118.	0.6	1
27	Imaging of the Anterior Eye Segment in the Evaluation of Corneal Dynamics. Advances in Intelligent Systems and Computing, 2016, , 63-73.	0.6	3
28	A New Personal Verification Technique Using Finger-Knuckle Imaging. Lecture Notes in Computer Science, 2016, , 515-524.	1.3	4
29	Face Localization Algorithms as Element ofÂSilhouette Localization Process. Advances in Intelligent Systems and Computing, 2016, , 51-62.	0.6	0
30	Methodology for X-ray Microtomography Assessment of Regeneration and Growth of Bone Tissue Within the Area of Integration of the Anterior Cruciate Ligament Graft in Sheep. Journal of Medical Imaging and Health Informatics, 2016, 6, 14-21.	0.3	0
31	X-ray microtomography-based measurements of meniscal allografts. Orthopaedics and Traumatology: Surgery and Research, 2015, 101, 319-324.	2.0	4
32	Quantitative assessment of responses of the eyeball based on data from the Corvis tonometer. Computers in Biology and Medicine, 2015, 58, 91-100.	7.0	12
33	Mesure des allogreffes mÃ©niscales par microtomographies radiographiques. Revue De Chirurgie Orthopedique Et Traumatologique, 2015, 101, 221.	0.0	0
34	Quantitative assessment of the impact of blood pulsation on images of the pupil in infrared light. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 1446.	1.5	3
35	Maximum sphere method for shell patency measurements in viviparous land snails based on X-ray microcomputed tomography imaging. Computers in Biology and Medicine, 2015, 64, 187-196.	7.0	5
36	Methods of face localization in thermograms. Biocybernetics and Biomedical Engineering, 2015, 35, 138-146.	5.9	17

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37	Automatic method for detection of characteristic areas in thermal face images. Multimedia Tools and Applications, 2015, 74, 4351-4368.	3.9	23
38	Investigation of microstructure of bone tissue in mandibles of newborn rats after maternal treatment with antiretroviral drugs. Biocybernetics and Biomedical Engineering, 2015, 35, 54-63.	5.9	2
39	Calibration and segmentation of skin areas in hyperspectral imaging for the needs of dermatology. BioMedical Engineering OnLine, 2014, 13, 113.	2.7	21
40	A new algorithm and problems in automatic anterior eye chamber volume determining. Computers in Biology and Medicine, 2014, 52, 144-152.	7.0	3
41	3D image multifractal analysis and pore detection on a stereometric measurement file of a ceramic coating. Journal of the European Ceramic Society, 2014, 34, 3427-3432.	5.7	4
42	Free radicals properties of gamma-irradiated penicillin-derived antibiotics: piperacillin, ampicillin, and crystalline penicillin. Radiation and Environmental Biophysics, 2014, 53, 203-210.	1.4	7
43	Automatic method of analysis of OCT images in assessing the severity degree of glaucoma and the visual field loss. BioMedical Engineering OnLine, 2014, 13, 16.	2.7	11
44	Preservation and sterilization methods of the meniscal allografts: literature review. Cell and Tissue Banking, 2014, 15, 307-317.	1.1	33
45	Automatic method for the dermatological diagnosis of selected hand skin features in hyperspectral imaging. BioMedical Engineering OnLine, 2014, 13, 47.	2.7	19
46	X-ray Microtomography Analysis of the Aluminum Alloy Composite Reinforced by SiC After Friction Stir Processing. Journal of Materials Engineering and Performance, 2014, 23, 3215-3221.	2.5	8
47	Automatic method of analysis of OCT images in the assessment of the tooth enamel surface after orthodontic treatment with fixed braces. BioMedical Engineering OnLine, 2014, 13, 48.	2.7	14
48	Selected parameters of the corneal deformation in the Corvis tonometer. BioMedical Engineering OnLine, 2014, 13, 55.	2.7	30
49	Dynamic thermal imaging analysis in the effectiveness evaluation of warming and cooling formulations. Computers in Biology and Medicine, 2014, 54, 129-136.	7.0	2
50	Prediction of Young×³s modulus of trabeculae in microscale using macro-scale×³s relationships between bone density and mechanical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 36, 120-134.	3.1	36
51	Object Detail Correspondence Problem inÂStereovision. Advances in Intelligent Systems and Computing, 2014, , 209-222.	0.6	3
52	Using Analysis Algorithms and Image Processing for Quantitative Description of Colon Cancer Cells. Advances in Intelligent Systems and Computing, 2014, , 385-395.	0.6	2
53	The Three Dimensional Visualization Growth of Bone Tissue in Microstructure of Surface Analysis Using Drishti Open-Source Software. Advances in Intelligent Systems and Computing, 2014, , 91-102.	0.6	0
54	Comparison Study of Two Programs Dedicated to X-ray Microtomography Data Analysis. Advances in Intelligent Systems and Computing, 2014, , 197-208.	0.6	0

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55	Trabecular Bone Microstructure Investigation. Advances in Intelligent Systems and Computing, 2014, , 81-90.	0.6	0
56	Quantitative measurement of pseudoexfoliation in the anterior segment of the eye performed in visible light. BioMedical Engineering OnLine, 2013, 12, 74.	2.7	2
57	Automatic analysis of 2D polyacrylamide gels in the diagnosis of DNA polymorphisms. BioMedical Engineering OnLine, 2013, 12, 68.	2.7	0
58	Mobile sailing robot for automatic estimation of fish density and monitoring water quality. BioMedical Engineering OnLine, 2013, 12, 60.	2.7	10
59	Image analysis and processing methods in verifying the correctness of performing low-invasive esthetic medical procedures. BioMedical Engineering OnLine, 2013, 12, 51.	2.7	14
60	Methods of measuring the iridocorneal angle in tomographic images of the anterior segment of the eye. BioMedical Engineering OnLine, 2013, 12, 40.	2.7	12
61	Automatic analysis of selected choroidal diseases in OCT images of the eye fundus. BioMedical Engineering OnLine, 2013, 12, 117.	2.7	26
62	Depth Estimation in Image Sequences in Single-Camera Video Surveillance Systems. Communications in Computer and Information Science, 2013, , 121-129.	0.5	4
63	The Effectiveness of Matching Methods for Rectified Images. Advances in Intelligent Systems and Computing, 2013, , 479-489.	0.6	1
64	Fully automatic algorithm for the analysis of vessels in the angiographic image of the eye fundus. BioMedical Engineering OnLine, 2012, 11, 35.	2.7	26
65	Assessment of significance of features acquired from thyroid ultrasonograms in Hashimoto's disease. BioMedical Engineering OnLine, 2012, 11, 48.	2.7	19
66	Influence of the measurement method of features in ultrasound images of the thyroid in the diagnosis of Hashimotoâ€™s disease. BioMedical Engineering OnLine, 2012, 11, 91.	2.7	19
67	Micro-condensation sensor for monitoring respiratory rate and breath strength. Sensors and Actuators A: Physical, 2012, 185, 160-167.	4.1	19
68	EPR studies of free radicals decay and survival in gamma irradiated aminoglycoside antibiotics: sisomicin, tobramycin and paromomycin. European Journal of Pharmaceutical Sciences, 2012, 45, 251-262.	4.0	20
69	The Feature Detection on the Homogeneous Surfaces with Projected Pattern. Lecture Notes in Computer Science, 2012, , 118-128.	1.3	5
70	The Panoramic Visualization of Metallic Materials in Macro- and Microstructure of Surface Analysis Using Microsoft Image Composite Editor (ICE). Lecture Notes in Computer Science, 2012, , 358-368.	1.3	7
71	Enhancing the Quality of Layer Detection in Tomographic Images of the Eye. Lecture Notes in Computer Science, 2012, , 13-23.	1.3	0
72	A Metropolitan Assistive System for Disabled and the Elderly. Lecture Notes in Computer Science, 2012, , 560-567.	1.3	0

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73	Biometrical approach in the pelvis surgical reconstructive treatment. International Journal of Biometrics, 2011, 3, 76.	0.4	2
74	Reconstruction of the Pelvic Region Based on the Statistical Shape Modeling. Advances in Intelligent and Soft Computing, 2010, , 165-173.	0.2	3
75	Methodology of Examining Fracture Surfaces of Biomaterials by Means of Modelling and Multifractal Analysis. Advances in Intelligent and Soft Computing, 2010, , 431-438.	0.2	2
76	Dynamics of the Clusterization Process in an Adaptative Method of Image Segmentation. Advances in Intelligent and Soft Computing, 2010, , 25-32.	0.2	0
77	Hierarchic Approach in the Analysis of Tomographic Eye Image. Advances in Intelligent and Soft Computing, 2009, , 463-470.	0.2	3
78	Asymmetry of magnetic motor evoked potentials recorded in calf muscles of the dominant and non-dominant lower extremity. Neuroscience Letters, 2009, 459, 74-78.	2.1	1
79	Layers Recognition in Tomographic Eye Image Based on Random Contour Analysis. Advances in Intelligent and Soft Computing, 2009, , 471-478.	0.2	25
80	Densitometry test of bone tissue: Validation of computer simulation studies. Computers in Biology and Medicine, 2008, 38, 755-764.	7.0	5
81	Headache in Children's Drawings. Journal of Child Neurology, 2008, 23, 184-191.	1.4	27
82	Identification of Layers in a Tomographic Image of an Eye Based on the Canny Edge Detection. Advances in Soft Computing, 2008, , 232-239.	0.4	12
83	The Clusterization Process in an Adaptative Method of Image Segmentation. Advances in Soft Computing, 2008, , 105-112.	0.4	0
84	The analysis of densitometry image of bone tissue based on computer simulation of X-ray radiation propagation through plate model. Computers in Biology and Medicine, 2007, 37, 245-250.	7.0	3
85	Determining the Contour of Cylindrical Biological Objects Using the Directional Field. Advances in Intelligent and Soft Computing, 2007, , 11-18.	0.2	2
86	The Cell Structures Segmentation. Advances in Soft Computing, 2005, , 569-576.	0.4	16
87	Fast eye localization from thermal images using neural networks. Multimedia Tools and Applications, 0, , 1.	3.9	9
88	Stereometric Parameters of Butterfly Wings. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 0, 31, 1-10.	0.5	11