

Marek Penhaker

List of Publications by Year in descending order

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227
papers

1,454
citations

516710

16
h-index

501196

28
g-index

250
all docs

250
docs citations

250
times ranked

1282
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanogenerators for Human Body Energy Harvesting. Trends in Biotechnology, 2017, 35, 610-624.	9.3	149
2	A combined negative selection algorithm and particle swarm optimization for an email spam detection system. Engineering Applications of Artificial Intelligence, 2015, 39, 33-44.	8.1	100
3	Measurements of Generated Energy/Electrical Quantities from Locomotion Activities Using Piezoelectric Wearable Sensors for Body Motion Energy Harvesting. Sensors, 2016, 16, 524.	3.8	50
4	HomeCare – Smart embedded biotelemetry system. , 2007, , 711-714.		46
5	Biotelemetry. IFMBE Proceedings, 2008, , 405-408.	0.3	44
6	Thermal Energy Harvesting on the Bodily Surfaces of Arms and Legs through a Wearable Thermo-Electric Generator. Sensors, 2018, 18, 1927.	3.8	36
7	6-Hydroxyquinolinium salts differing in the length of alkyl side-chain: Synthesis and antimicrobial activity. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 5238-5241.	2.2	35
8	Cotton Fabric Coated with Conducting Polymers and its Application in Monitoring of Carnivorous Plant Response. Sensors, 2016, 16, 498.	3.8	35
9	Sensitivity analysis and application of transducers. , 2008, , .		32
10	User Interactive Biomedical Data Web Services Application. Communications in Computer and Information Science, 2011, , 223-237.	0.5	26
11	The potential of medical device industry in technological and economical context. Therapeutics and Clinical Risk Management, 2015, 11, 1505.	2.0	25
12	Sensor Network for Measurement and Analysis on Medical Devices Quality Control. Communications in Computer and Information Science, 2011, , 182-196.	0.5	24
13	Wireless Body Sensor Network in Health Maintenance Systems. Elektronika Ir Elektrotechnika, 2011, 115, .	0.8	22
14	Recent Trends, Construction, and Applications of Smart Textiles and Clothing for Monitoring of Health Activity: A Comprehensive Multidisciplinary Review. IEEE Reviews in Biomedical Engineering, 2022, 15, 36-60.	18.0	21
15	The HomeCare and Circadian rhythm. , 2008, , .		20
16	The circadian cycle monitoring. , 2008, , .		20
17	Methods of Comparing ECG Reconstruction. , 2009, , .		20
18	Medical Devices: Regulation, Risk Classification, and Open Innovation. Journal of Open Innovation: Technology, Market, and Complexity, 2020, 6, 42.	5.2	19

#	ARTICLE	IF	CITATIONS
19	Comparison of Classification Algorithms for Physical Activity Recognition. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 123-131.	0.6	19
20	Design and Implementation of Textile Sensors for Biotelemetry Applications. <i>IFMBE Proceedings</i> , 2008, , 194-197.	0.3	18
21	Advanced Bilirubin Measurement by a Photometric Method. <i>Elektronika Ir Elektrotechnika</i> , 2013, 19, .	0.8	18
22	Cloud Computing Environments for Biomedical Data Services. <i>Lecture Notes in Computer Science</i> , 2012, , 336-343.	1.3	16
23	Global Courseware for Visualization and Processing Biosignals. <i>IFMBE Proceedings</i> , 2009, , 404-407.	0.3	15
24	Segmentation of Knee Cartilage: A Comprehensive Review. <i>Journal of Medical Imaging and Health Informatics</i> , 2018, 8, 401-418.	0.3	13
25	Advanced Experimental Medical Diagnostic System Design and Realization. <i>Elektronika Ir Elektrotechnika</i> , 2012, 117, .	0.8	13
26	Health Maintenance Embedded Systems in Home Care Applications. , 2007, , .		12
27	Web System for Electrophysiological Data Management. , 2010, , .		12
28	Design and Application of Mobile Embedded Systems for Home Care Applications. , 2010, , .		12
29	Design of a synthetic ECG signal based on the Fourier series. , 2014, , .		12
30	Articular Cartilage Defect Detection Based on Image Segmentation with Colour Mapping. <i>Lecture Notes in Computer Science</i> , 2014, , 214-222.	1.3	12
31	Colorectal cancer liver metastases: laparoscopic and open radiofrequency-assisted surgery. <i>Wideochirurgia I Inne Techniki Maloinwazyjne</i> , 2015, 2, 205-212.	0.7	11
32	Monitoring of CRT-D devices during radiation therapy in vitro. <i>BioMedical Engineering OnLine</i> , 2016, 15, 29.	2.7	11
33	Wavelet-Based Filtration Procedure for Denoising the Predicted CO2 Waveforms in Smart Home within the Internet of Things. <i>Sensors</i> , 2020, 20, 620.	3.8	11
34	Using Frequency Analysis of Vibration for Detection of Epileptic Seizure. <i>IFMBE Proceedings</i> , 2009, , 2155-2157.	0.3	11
35	Wearable PVDF transducer for biomechanical energy harvesting and gait cycle detection. , 2016, , .		10
36	The Business Process Model and Notation of Open Innovation: The Process of Developing Medical Instrument. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2019, 5, 101.	5.2	10

#	ARTICLE	IF	CITATIONS
37	A Flexible Thermoelectric Generator Worn on the Leg to Harvest Body Heat Energy and to Recognize Motor Activities: A Preliminary Study. IEEE Access, 2021, 9, 20878-20892.	4.2	10
38	The Evaluation of Light Conditions Influence and Corrections upon Doppler Blood Perfusion Imaging. Advances in Electrical and Electronic Engineering, 2016, 14, .	0.3	10
39	Structural Properties of Potential Synthetic Vaccine Adjuvants - TLR Agonists. Current Medicinal Chemistry, 2015, 22, 3306-3325.	2.4	10
40	Non Invasive Measurement and Visualizations of Blood Pressure. Elektronika Ir Elektrotechnika, 2011, 116, .	0.8	10
41	Recent Techniques and Trends for Retinal Blood Vessel Extraction and Tortuosity Evaluation: A Comprehensive Review. IEEE Access, 2020, 8, 197787-197816.	4.2	10
42	Circadian Rhythm Monitoring in HomeCare Systems. IFMBE Proceedings, 2009, , 950-953.	0.3	10
43	Fuzzy algorithm for segmentation of images in extraction of objects from MRI. , 2014, , .		9
44	The Modelling of the Post-Operative Perfusion in Burns from LDI Data. Advances in Electrical and Electronic Engineering, 2017, 15, .	0.3	9
45	Verification of Set Up Dual-Chamber Pacemaker Electrical Parameters. , 2010, , .		8
46	Detection of ECG Significant Waves for Biventricular Pacing Treatment. , 2010, , .		8
47	Precise Temperature Measurement for Increasing the Survival of Newborn Babies in Incubator Environments. Sensors, 2014, 14, 23563-23580.	3.8	8
48	Prediction Model of Alcohol Intoxication from Facial Temperature Dynamics Based on K-Means Clustering Driven by Evolutionary Computing. Symmetry, 2019, 11, 995.	2.2	8
49	Continuous Noninvasive Blood Pressure Measurement by Near Infra Red CCD Camera and Pulse Transmit Time Systems. , 2010, , .		7
50	Use Effectiveness of Medical Devices: A Case Study on the Deployment of Ultrasonographic Devices. Therapeutic Innovation and Regulatory Science, 2018, 52, 499-506.	1.6	7
51	Human Body Energy Harvesting Solutions for Wearable Technologies. , 2018, , .		7
52	Consumer perceptions on smart wearable devices for medical and wellness purposes. , 2019, , .		7
53	Complexity Stage Model of the Medical Device Development Based on Economic Evaluation"MedDee. Sustainability, 2020, 12, 1755.	3.2	7
54	Extraction of Chondromalacia Knee Cartilage Using Multi Slice Thresholding Method. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 395-403.	0.3	7

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55	Universality of Oxime K203 for Reactivation of Nerve Agent-Inhibited AChE. Medicinal Chemistry, 2015, 11, 683-686.	1.5	7
56	Classification Method for Macular Lesions Using Fuzzy Thresholding Method. IFMBE Proceedings, 2016, , 239-244.	0.3	6
57	Thin Cap Fibroatheroma Detection in Virtual Histology Images Using Geometric and Texture Features. Applied Sciences (Switzerland), 2018, 8, 1632.	2.5	6
58	Towards to Optimal Wavelet Denoising Scheme—A Novel Spatial and Volumetric Mapping of Wavelet-Based Biomedical Data Smoothing. Sensors, 2020, 20, 5301.	3.8	6
59	Performance test of multiplatform real time processing of biomedical signals. , 2010, , .		5
60	Optical fiber distributed temperature sensor in cardiological surgeries. , 2010, , .		5
61	Principal component analysis and fuzzy clustering of SA HRV during the Orthostatic challenge. , 2012, , .		5
62	Using Miniature Thermoelectric Generators for Wearable Energy Harvesting. , 2019, , .		5
63	Design and Development of a Novel Invasive Blood Pressure Simulator for Patient's Monitor Testing. Sensors, 2020, 20, 259.	3.8	5
64	Selected transformation methods and their comparison for VCG leads deriving. AEJ - Alexandria Engineering Journal, 2022, 61, 3475-3485.	6.4	5
65	Measurement and Diagnosis Assessment of Plethysmographycal Record. IFMBE Proceedings, 2011, , 320-323.	0.3	5
66	Segmentation of MRI Data to Extract the Blood Vessels Based on Fuzzy Thresholding. Studies in Computational Intelligence, 2015, , 43-52.	0.9	5
67	Transition from partial factors method to Simulation-Based Reliability Assessment in structural design. Probabilistic Engineering Mechanics, 1999, 14, 105-118.	2.7	4
68	Automatic Ranking of Eye Movement in Electrooculographic Records. , 2010, , .		4
69	A new method for identification of the significant point in the Plethysmografical record. , 2010, , .		4
70	Baseline wander elimination by Fourier series. , 2010, , .		4
71	Guidelines for modelling BED in simultaneous radiotherapy of two volumes: tpv_1 and tpv_2 . , 2013, , .		4
72	Current Automatic Methods for Knee Cartilage Segmentation: A Review. , 2019, , .		4

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73	A New Approach for Testing Fetal Heart Rate Monitors. Sensors, 2020, 20, 4139.	3.8	4
74	Modern Trends and Applications of Intelligent Methods in Biomedical Signal and Image Processing. Sensors, 2021, 21, 847.	3.8	4
75	Real Time Signal Detection and Computer Visualization of the Patient Respiration. Lecture Notes in Electrical Engineering, 2016, , 783-793.	0.4	4
76	Real Time Measurement and Visualization of ECG on Mobile Monitoring Stations of Biotelemetric System. Studies in Computational Intelligence, 2010, , 67-78.	0.9	4
77	User Adaptive System for Data Management in Home Care Maintenance Systems. Lecture Notes in Computer Science, 2011, , 492-501.	1.3	4
78	Electronic Invasive Blood Pressure Simulator Device for Patient Monitor Testing. Elektronika Ir Elektrotechnika, 2012, 122, .	0.8	4
79	Bio-inspired Genetic Algorithms on FPGA Evolvable Hardware. Lecture Notes in Computer Science, 2012, , 439-447.	1.3	4
80	Biomedical Distributed Signal Processing and Analysis. Lecture Notes in Computer Science, 2013, , 88-95.	1.3	4
81	Evaluation of Electrocardiographic Leads and Establishing Significance Intra-individuality. Advances in Intelligent Systems and Computing, 2014, , 295-303.	0.6	4
82	Image registration in neurology applications. , 2010, , .		3
83	Notice of Retraction: Controlling Peacemakers by Accelerometers. , 2010, , .		3
84	Analog signal preprocessing in reflected Plethysmography. , 2010, , .		3
85	A comparison of success and time consumption of the most common methods for detection of the SSVEP. , 2013, , .		3
86	High Efficiency Code Optimization in ARM Cortex-M Series Processor. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 312-315.	0.4	3
87	Battery check test on pacemaker by advanced technique. , 2014, , .		3
88	Semi-spherical Radiofrequency Bipolar Device – A New Technique for Liver Resection. Technology in Cancer Research and Treatment, 2015, 14, 573-582.	1.9	3
89	Segmentation of Articular Cartilage and Early Osteoarthritis based on the Fuzzy Soft Thresholding Approach Driven by Modified Evolutionary ABC Optimization and Local Statistical Aggregation. Symmetry, 2019, 11, 861.	2.2	3
90	Autonomous Segmentation and Modeling of Brain Pathological Findings Based on Iterative Segmentation from MR Images. Lecture Notes in Computer Science, 2019, , 324-335.	1.3	3

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91	Analysis and Testing of a Suitable Compatible Electrode's Material for Continuous Measurement of Glucose Concentration. <i>Sensors</i> , 2020, 20, 3666.	3.8	3
92	Evaluating Customer Satisfaction: Linguistic Reasoning by Fuzzy Artificial Neural Networks. <i>Studies in Computational Intelligence</i> , 2015, , 91-100.	0.9	3
93	Surface of Articular Cartilage Extraction Using Fuzzy C-means Segmentation. <i>Studies in Computational Intelligence</i> , 2016, , 209-219.	0.9	3
94	Multiregional Segmentation Modeling in Medical Ultrasonography: Extraction, Modeling and Quantification of Skin Layers and Hypertrophic Scars. <i>Lecture Notes in Computer Science</i> , 2017, , 182-192.	1.3	3
95	The Functionality Control of Horizontal Agitators for Blood Bags. <i>IFMBE Proceedings</i> , 2010, , 859-862.	0.3	3
96	Automated Measurement of Electrochemical Sensors. <i>IFMBE Proceedings</i> , 2013, , 1521-1524.	0.3	3
97	Using a Differential Pressure Sensor as Spirometer. <i>Lecture Notes in Computer Science</i> , 2012, , 236-241.	1.3	3
98	Similarity Analysis of EEG Data Based on Self Organizing Map Neural Network. <i>Advances in Electrical and Electronic Engineering</i> , 2014, 12, .	0.3	3
99	Computer-Based Vectorcardiograph for Research Purposes. <i>Elektronika Ir Elektrotechnika</i> , 2013, 19, .	0.8	3
100	Security and Reliability of Data Transmissions in Biotelemetric System. <i>IFMBE Proceedings</i> , 2010, , 216-219.	0.3	3
101	Software Simulation of CT Reconstructions and Artifacts. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2016, , 428-437.	0.3	3
102	Statistical Evaluation of Transformation Methods Accuracy on Derived Pathological Vectorcardiographic Leads. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2022, 10, 1-8.	3.7	3
103	D16: Decision trees for medical records diagnosis. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004, 37, 434-437.	0.4	2
104	Process of Multi Technical Education in Biomedical Engineers Curricula. , 2008, , .		2
105	Determination of the Electric Parameters of Dual-Chamber Cardiac Stimulator. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 290-293.	0.4	2
106	Finger Plethysmography Classification by Orthogonal Transformatios. , 2010, , .		2
107	Linear octapolar radiofrequency tool for liver ablation. , 2011, , .		2
108	Influence of ionising radiation on intelligent electronic implantable devices. , 2012, , .		2

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109	Layout optimization of electrodes for radiofrequency ablation instrument. , 2013, , .		2
110	A Probabilistic Model of the Interaction between a Sitting Man and a Seat. Applied Mechanics and Materials, 0, 684, 413-419.	0.2	2
111	Dry contact less surface electrodes for bioelectrical measurements. , 2014, , .		2
112	Real Time Breathing Signal Measurement: Current Methods. IFAC-PapersOnLine, 2015, 48, 153-158.	0.9	2
113	Knowledge framework for clinical processes architecture and analysis. , 2015, , .		2
114	Extraction of Myocardial Fibrosis from MR Using Fuzzy Soft Thresholding Algorithm. , 2016, , .		2
115	Weariness and Vigilance Data Mining Using Mobile Platform Assessment. , 2016, , .		2
116	A model transformation framework to increase OCL usability. Journal of King Saud University - Computer and Information Sciences, 2016, 28, 13-26.	3.9	2
117	Biotelemetry. , 2018, , 103-106.		2
118	A Proposal of Optimal Wavelet Filter Design for EGG Signal Decomposition based on Modified ABC Evolutionary Optimization. , 2019, , .		2
119	Design and Analysis of LMMSE Filter for MR Image Data. Lecture Notes in Computer Science, 2019, , 336-348.	1.3	2
120	Quantitative and Comparative Analysis of Effectivity and Robustness for Enhanced and Optimized Non-Local Mean Filter Combining Pixel and Patch Information on MR Images of Musculoskeletal System. Sensors, 2021, 21, 4161.	3.8	2
121	Optical Nerve Disc Segmentation Using Circual Integro Differential Operator. Lecture Notes in Electrical Engineering, 2016, , 387-396.	0.4	2
122	Reconstruction of 4D CTA Brain Perfusion Images Using Transformation Methods. Advances in Intelligent Systems and Computing, 2016, , 203-211.	0.6	2
123	Segmentation of Vascular Calcifications and Statistical Analysis of Calcium Score. Lecture Notes in Computer Science, 2017, , 455-464.	1.3	2
124	Evaluation of Gama Analysis Results Significance Within Verification of Radiation IMRT Plans in Radiotherapy. Lecture Notes in Computer Science, 2017, , 541-548.	1.3	2
125	Multiregional Soft Segmentation Driven by Modified ABC Algorithm and Completed by Spatial Aggregation: Volumetric, Spatial Modelling and Features Extraction of Articular Cartilage Early Loss. Lecture Notes in Computer Science, 2018, , 385-394.	1.3	2
126	Analysis and Modelling of Heel Bone Fracture with Using of Active Contour Driven by Gaussian Energy and Features Extraction. Lecture Notes in Computer Science, 2018, , 405-414.	1.3	2

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127	Oxime K033-Reactivation Activity of Cholinesterases Inhibited by Various Nerve Agents and Organophosphorus Pesticides. Letters in Drug Design and Discovery, 2018, 15, 1124-1130.	0.7	2
128	Precise Temperature Stabilizing System of Liquids for the purpose Biomedical Applications. Elektronika Ii Elektrotehnika, 2012, 18, .	0.8	2
129	Computer Based Psychometric Testing and Well Being Software for Sleep Deprivation Analysis. Studies in Computational Intelligence, 2013, , 207-216.	0.9	2
130	Smart Communication Adviser for Remote Users. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 141-150.	0.3	2
131	Design and Implementation of an Algorithm for System of Exposure Limit in Radiology. Studies in Computational Intelligence, 2016, , 433-443.	0.9	2
132	Segmentation of Macular Lesions Using Active Shape Contour Method. Advances in Intelligent Systems and Computing, 2016, , 213-221.	0.6	2
133	Detection and Dynamical Tracking of Temperature Facial Distribution Caused by Alcohol Intoxication with Using of Modified OTSU Regional Segmentation. Lecture Notes in Computer Science, 2018, , 357-366.	1.3	2
134	Retinal Blood Vessels Modeling based on Fuzzy Sobel Edge Detection and Morphological Segmentation. , 2019, , .		2
135	Multidisciplinary Education of Biomedical Engineers. IFMBE Proceedings, 2009, , 2155-2158.	0.3	2
136	Notice of Retraction: Bed vibration measurement and evaluation for maintainace health systems. , 2010, , .		1
137	Reduction of ECG precordial leads. , 2010, , .		1
138	Evaluation of effect cardiac resynchronization therapy. , 2011, , .		1
139	Invasive blood pressure curves simulation device. , 2011, , .		1
140	Advanced Intracardial Biosignal Processing. Lecture Notes in Computer Science, 2012, , 215-223.	1.3	1
141	Remote measurement and control with sensors via the BT interface. , 2012, , .		1
142	Emotional state and its impact on voice authentication accuracy. Proceedings of SPIE, 2013, , .	0.8	1
143	Technical Development of a New Semispherical Radiofrequency Bipolar Device (RONJA):<i>Ex Vivo</i>and<i>In Vivo</i>Studies. BioMed Research International, 2014, 2014, 1-7.	1.9	1
144	Impact of human emotions on physiological characteristics. Proceedings of SPIE, 2014, , .	0.8	1

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145	Hemodynamic Parameters Measurement Using Pulsed Doppler Effect. IFAC-PapersOnLine, 2015, 48, 409-412.	0.9	1
146	Extraction of Optical Disc Geometrical Parameters with Using of Active Snake Model with Gradient Directional Information. Lecture Notes in Computer Science, 2017, , 445-454.	1.3	1
147	Design of spectrophotometer for neonatal phototherapy. , 2017, , .		1
148	Analysis and modeling of alcohol intoxication from IR images based on multiregional image segmentation and correlation with breath analysis. , 2017, , .		1
149	Segmentation and modeling of scattered RTG irradiation on quality of skiagraphy images in clinical conditions. , 2017, , .		1
150	Dynamical Modelling of Pulmonary Compartment Response Using Differential Approach. , 2017, , .		1
151	Optimization of Laser Therapy Parameters in Dependence of Spot Size. IFAC-PapersOnLine, 2018, 51, 360-365.	0.9	1
152	Using the PI ProcessBook Software Tool to Monitor Room Occupancy in Smart Home Care. , 2018, , .		1
153	Evaluation of an Electro-Pneumatic Device for Artificial Capillary Pulse Generation used in a Prospective Study in Animals for Surgical Neck Wound Healing. Scientific Reports, 2019, 9, 9837.	3.3	1
154	A Semi-Supervised Learning Approach for Automatic Segmentation of Retinal Lesions Using SURF Blob Detector and Locally Adaptive Binarization. Lecture Notes in Computer Science, 2019, , 311-323.	1.3	1
155	Encapsulation of mTEGs for on-body energy harvesting. , 2019, , .		1
156	Biocompatibility of Medical Devices and Their Risks. , 2019, , .		1
157	Tracking of Bone Reparation Process with Using of Periosteal Callus Extraction Based on Fuzzy C-means Algorithm. Studies in Computational Intelligence, 2017, , 271-280.	0.9	1
158	Stimulation Parameter Testing and Verification during Pacing. IFMBE Proceedings, 2010, , 533-536.	0.3	1
159	Audiometry for Teaching Experiment in PowerLab Systems. Lecture Notes in Electrical Engineering, 2011, , 831-838.	0.4	1
160	Biomedical Engineering Education under European Union Support. IFMBE Proceedings, 2011, , 16-19.	0.3	1
161	Education of Biomedical Engineering in the Technical University of Ostrava. IFMBE Proceedings, 2014, , 531-534.	0.3	1
162	Transition from Deterministic to Probabilistic Structural Steel Reliability Assessment with Special Attention to Stability Problems. , 1999, , 19-26.		1

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163	New semi-spherical radiofrequency energy device for liver resection: an experimental study in pigs. Acta Veterinaria Brno, 2015, 84, 397-401.	0.5	1
164	Macular Lesions Extraction Using Active Appearance Method. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 438-447.	0.3	1
165	Extraction of Myocardial Fibrosis Using Iterative Active Shape Method. Lecture Notes in Computer Science, 2016, , 698-707.	1.3	1
166	Table Lifting Mechanism Design for Medical Surgery Application base on Human Force Driven. Acta Mechanica Slovaca, 2016, 20, 60-66.	0.1	1
167	Biopotential Conducting Polymer Electrodes Design and Realization for ECG Measurement. , 2017, , .		1
168	Breathing Movement Analysis for Adjustment of Radiotherapy Planning. Studies in Computational Intelligence, 2017, , 105-116.	0.9	1
169	Objective Measurement of Hypertrophic Scars using Skin Colorimeter. , 2017, , .		1
170	Are Healthy Older Individuals Ready to Use Smartphones?. Advanced Science Letters, 2018, 24, 2870-2872.	0.2	1
171	Detection and Segmentation of Retinal Lesions in Retcam 3 Images Based on Active Contours Driven by Statistical Local Features. Advances in Electrical and Electronic Engineering, 2019, 17, .	0.3	1
172	PREMATURE INFANT BLOOD VESSEL SEGMENTATION OF RETINAL IMAGES BASED ON HYBRID METHOD FOR THE DETERMINATION OF TORTUOSITY. Lekar A Technika, 2020, 50, 49-57.	0.1	1
173	A Quantitative and Comparative Analysis of Edge Detectors for Biomedical Image Identification Within Dynamical Noise Effect. Lecture Notes in Computer Science, 2020, , 90-101.	1.3	1
174	Analysis and Measurement of Cardiac Output Based on Pulmonary Artery Thermodilution in Laboratory Conditions. IFMBE Proceedings, 2021, , 73-83.	0.3	1
175	Circadian Rhythm Processing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 286-289.	0.4	0
176	ECG Width Intervals Detection Using Mathematical Methods. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 294-297.	0.4	0
177	Notice of Retraction: Plethysmography Bluetooth measurement. , 2010, , .		0
178	Simple data acquisition system for photoplethysmography and electrocardiography. , 2010, , .		0
179	Architecture and Design of Mobile Telemetry System for Ambient Assisted Living. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 769-780.	0.3	0
180	Personal system of remote health care. , 2010, , .		0

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181	The measurement and failure simulations of basic ventilation modes. , 2010, , .		0
182	Intelligent mechatronics system for biochemists bleedings verification. , 2012, , .		0
183	Intravenous catheter transfer function distortion testing. , 2013, , .		0
184	Measurement and Analysis of Skin Incision Mechanical Properties Treated by Collagenous Glue. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 46-49.	0.4	0
185	Implementation of Controlled Pacemaker. IFAC-PapersOnLine, 2015, 48, 413-417.	0.9	0
186	Computer Based Controlled Pacemaker Implementation. IFAC-PapersOnLine, 2015, 48, 448-453.	0.9	0
187	Mobile Multiple User Interactive System for Intelligent Information Assesment in Healthcare. , 2016, , .		0
188	Defibrillator educational devices. , 2017, , .		0
189	Analysis and Dynamical Simulation of Heart Rate Influence upon Physical Load. Lecture Notes in Computer Science, 2017, , 325-333.	1.3	0
190	Visualization of transient characteristics of warming with thermal cameras. , 2018, , .		0
191	Real-time analysis of semiconductor memories under the influence of ionizing radiation. , 2018, , .		0
192	Measurement System for Classification of Handâ€™s Gesture. , 2018, , .		0
193	Modeling and objectification of blood vessel calcification with using of multiregional segmentation. Vietnam Journal of Computer Science, 2018, 5, 279-289.	1.2	0
194	Modeling and Features Extraction of Blood Vessels based on Soft Regional Segmentation. IFAC-PapersOnLine, 2018, 51, 366-371.	0.9	0
195	Accuracy analysis of the dose delivery process while using the XsightÂ® Spine Tracking technology. Biomedical Physics and Engineering Express, 2018, 4, 065033.	1.2	0
196	Designing and Testing of the Software Module Evaluation of Visual Acuity for Information System Eye Center. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 2019, 41, 117-127.	0.5	0
197	Design and Testing of radiofrequency instrument Ronja ICS. , 2019, , .		0
198	Design and Stress Analysis of a System for Cleaning Needle Electrodes for Radiofrequency Ablation during Surgeries. , 2019, , .		0

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199	Design and FEM Analysis of Laparoscopical Tool for Electrocoagulation Surgery. , 2019, , .		0
200	Modeling of Articular Cartilage with Goal of Early Osteoarthritis Extraction Based on Local Fuzzy Thresholding Driven by Fuzzy C-Means Clustering. Lecture Notes in Computer Science, 2019, , 289-299.	1.3	0
201	Modeling and Features Extraction of Heel Bone Fracture Reparation Dynamical Process from X-Ray Images Based on Time Iteration Segmentation Model Driven by Gaussian Energy. Lecture Notes in Computer Science, 2019, , 300-310.	1.3	0
202	Device for Evaluation of Electrical Parameters of Biopotential Electrodes. IFAC-PapersOnLine, 2019, 52, 524-529.	0.9	0
203	A Proposal of Measuring Telemetry System for Patient Breathing Recording within Radiotherapy. IFAC-PapersOnLine, 2019, 52, 353-358.	0.9	0
204	INFLUENCE OF THE USE OF GRAVITY SETS IN A PRESSURE VOLUMETRIC INFUSION PUMP WITH AN IMPACT ON THE ACCURACY OF INFUSION SOLUTION FLOWS. Lekar A Technika, 2020, 50, 23-31.	0.1	0
205	A Mechanical Construction Proposal of Rehabilitation Instrument for Measurement and Analysis of Knee Joint Range. , 2020, , .		0
206	Unit for Recording External Events during Measuring of Biosignals. Elektronika Ir Elektrotechnika, 2014, 20, .	0.8	0
207	Pressure Distribution Measurement of Close Fitting Clothes on Human Body. IFMBE Proceedings, 2014, , 436-439.	0.3	0
208	Comparison of classification techniques for actual fetal state determination. , 2014, , .		0
209	Electrical Technologies in Healthcare – Cost of Development of Linear Octapolar Tool in the Czech Republic. Lecture Notes in Electrical Engineering, 2016, , 925-934.	0.4	0
210	Model Kidney Function in Stabilizing of Blood Pressure. Lecture Notes in Computer Science, 2016, , 430-439.	1.3	0
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