Marek Penhaker

List of Publications by Year
in descending order

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	Selected transformation methods and their comparison for VCG leads deriving. AEJ - Alexandria Engineering Journal, 2022, 61, 3475-3485.	6.4	5
2	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
3	Statistical Evaluation of Transformation Methods Accuracy on Derived Pathological Vectorcardiographic Leads. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-8.	3.7	3
4	Modern Trends and Applications of Intelligent Methods in Biomedical Signal and Image Processing. Sensors, 2021, 21, 847.	3.8	4
5	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
6	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
7	Analysis and Measurement of Cardiac Output Based on Pulmonary Artery Thermodilution in Laboratory Conditions. IFMBE Proceedings, 2021, , 73-83.	0.3	1
8	Design and Development of a Novel Invasive Blood Pressure Simulator for Patient's Monitor Testing. Sensors, 2020, 20, 259.	3.8	5
9	Analysis and Testing of a Suitable Compatible Electrode's Material for Continuous Measurement of Glucose Concentration. Sensors, 2020, 20, 3666.	3.8	3
10	A New Approach for Testing Fetal Heart Rate Monitors. Sensors, 2020, 20, 4139.	3.8	4
11	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
12	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
13	A Mechanical Construction Proposal of Rehabilitation Instrument for Measurement and Analysis of Knee Joint Range. , 2020, , .		0
14	Complexity Stage Model of the Medical Device Development Based on Economic Evaluation—MedDee. Sustainability, 2020, 12, 1755.	3.2	7
15	Medical Devices: Regulation, Risk Classification, and Open Innovation. Journal of Open Innovation: Technology, Market, and Complexity, 2020, 6, 42.	5.2	19
16	Wavelet-Based Filtration Procedure for Denoising the Predicted CO_2 Waveforms in Smart Home within the Internet of Things. Sensors, 2020, 20, 620.	3.8	11
17	Modeling and Extraction of Retinal Blood Vessels from RetCam 3 Based on Morphological Segmentation. Studies in Computational Intelligence, 2020, , 255-263.	0.9	0
18	Modeling and Objectification of Skiagraphy Image Quality Deterioration Caused by X-Ray Secondary Irradiation on Mobile X-Ray Device. IFMBE Proceedings, 2020, , 1599-1608.	0.3	0

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19	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
20	A Proposal of Optimal Wavelet Based Smoothing for EGG Signal Trend Detection. Communications in Computer and Information Science, 2020, , 238-248.	0.5	0
21	Quantitative Analysis and Objective Comparison of Clustering Algorithms for Medical Image Segmentation. Lecture Notes in Computer Science, 2020, , 114-125.	1.3	0
22	Recent Techniques and Trends for Retinal Blood Vessel Extraction and Tortuosity Evaluation: A Comprehensive Review. IEEE Access, 2020, 8, 197787-197816.	4.2	10
23	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
24	Riana â€" A Diagnostic Device for Measurement of Joint Range. , 2020, , .		0
25	Analysis of Enzyme Attachment onto Electrode for Glycemic Measurement. , 2020, , .		0
26	A Proposal of Optimal Wavelet Filter Design for EGG Signal Decomposition based on Modified ABC Evolutionary Optimization. , 2019, , .		2
27	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
28	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
29	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
30	Consumer perceptions on smart wearable devices for medical and wellness purposes. , 2019, , .		7
31	Design and Testing of radiofrequency instrument Ronja ICS. , 2019, , .		0
32	Design and Stress Analysis of a System for Cleaning Needle Electrodes for Radiofrequency Ablation during Surgeries. , 2019, , .		0
33	Using Miniature Thermoelectric Generators for Wearable Energy Harvesting. , 2019, , .		5
34	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
35	Design and FEM Analysis of Laparoscopical Tool for Electrocoagulation Surgery. , 2019, , .		0
36	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

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37	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
38	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
39	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
40	Design and Analysis of LMMSE Filter for MR Image Data. Lecture Notes in Computer Science, 2019, , 336-348.	1.3	2
41	The Business Process Model and Notation of Open Innovation: The Process of Developing Medical Instrument. Journal of Open Innovation: Technology, Market, and Complexity, 2019, 5, 101.	5.2	10
42	Device for Evaluation of Electrical Parameters of Biopotential Electrodes. IFAC-PapersOnLine, 2019, 52, 524-529.	0.9	0
43	Encapsulation of mTEGs for on-body energy harvesting. , 2019, , .		1
44	A Proposal of Measuring Telemetry System for Patient Breathing Recording within Radiotherapy. IFAC-PapersOnLine, 2019, 52, 353-358.	0.9	0
45	Biocompatibility of Medical Devices and Their Risks. , 2019, , .		1
46	Current Automatic Methods for Knee Cartilage Segmentation: A Review. , 2019, , .		4
47	Proposal of Electrode for Measuring Glucose Concentration in Blood. IFMBE Proceedings, 2019, , 801-804.	0.3	0
48	Design and Testing of Radiofrequency Instrument RONLINE. Advances in Intelligent Systems and Computing, 2019, , 638-649.	0.6	0
49	Using Wavelet Transformation for Prediction CO_2 in Smart Home Care Within IoT for Monitor Activities of Daily Living. Lecture Notes in Computer Science, 2019, , 500-509.	1.3	0
50	Retinal Blood Vessels Modeling based on Fuzzy Sobel Edge Detection and Morphological Segmentation. , 2019, , .		2
51	Design and Implementation of Monitor Tester for Validation of ECG Signals. , 2019, , .		0
52	Design and Strength Analysis of Laparoscopical Tool for Electrocoagulation Surgery. , 2019, , .		0
53	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
54	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

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55	Biotelemetry. , 2018, , 103-106.		2
56	Visualization of transient characteristics of warming with thermal cameras. , 2018, , .		0
57	Real-time analysis of semiconductor memories under the influence of ionizing radiation. , 2018, , .		0
58	Measurement System for Classification of Hand's Gesture. , 2018, , .		0
59	Modeling and objectification of blood vessel calcification with using of multiregional segmentation. Vietnam Journal of Computer Science, 2018, 5, 279-289.	1.2	0
60	Optimization of Laser Therapy Parameters in Dependence of Spot Size. IFAC-PapersOnLine, 2018, 51, 360-365.	0.9	1
61	Modeling and Features Extraction of Blood Vessels based on Soft Regional Segmentation. IFAC-PapersOnLine, 2018, 51, 366-371.	0.9	0
62	Human Body Energy Harvesting Solutions for Wearable Technologies. , 2018, , .		7
63	Using the PI ProcessBook Software Tool to Monitor Room Occupancy in Smart Home Care. , 2018, , .		1
64	Accuracy analysis of the dose delivery process while using the Xsight® Spine Tracking technology. Biomedical Physics and Engineering Express, 2018, 4, 065033.	1.2	0
65	Thin Cap Fibroatheroma Detection in Virtual Histology Images Using Geometric and Texture Features. Applied Sciences (Switzerland), 2018, 8, 1632.	2.5	6
66	Thermal Energy Harvesting on the Bodily Surfaces of Arms and Legs through a Wearable Thermo-Electric Generator. Sensors, 2018, 18, 1927.	3.8	36
67	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
68	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
69	Segmentation of Knee Cartilage: A Comprehensive Review. Journal of Medical Imaging and Health Informatics, 2018, 8, 401-418.	0.3	13
70	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
71	Multiregional Fuzzy Thresholding Segmentation Completed by Spatial Median Aggregation: Modeling and Segmentation of Early Pathological Findings of Articular Cartilage. IFMBE Proceedings, 2018, , 876-879.	0.3	0
72	Dynamic Modeling of the Czech Republic Population with a Focus on Alzheimer's Disease Patients. Lecture Notes in Computer Science, 2018, , 347-356.	1.3	0

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73	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
74	Modelling and Objectification of Secondary X ray Irradiation on Skiagraphy Images in Clinical Conditions. Lecture Notes in Computer Science, 2018, , 367-375.	1.3	0
75	Are Healthy Older Individuals Ready to Use Smartphones?. Advanced Science Letters, 2018, 24, 2870-2872.	0.2	1
76	Nanogenerators for Human Body Energy Harvesting. Trends in Biotechnology, 2017, 35, 610-624.	9.3	149
77	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
78	Defibrillator educational devices. , 2017, , .		0
79	Design of spectrophotometer for neonatal phototherapy. , 2017, , .		1
80	Analysis and Dynamical Simulation of Heart Rate Influence upon Physical Load. Lecture Notes in Computer Science, 2017, , 325-333.	1.3	0
81	Analysis and modeling of alcohol intoxication from IR images based on multiregional image segmentation and correlation with breath analysis. , 2017, , .		1
82	Segmentation and modeling of scattered RTG irradiation on quality of skiagraphy images in clinical conditions. , 2017, , .		1
83	Dynamical Modelling of Pulmonary Compartment Response Using Differential Approach. , 2017, , .		1
84	Segmentation of Vascular Calcifications and Statistical Analysis of Calcium Score. Lecture Notes in Computer Science, 2017, , 455-464.	1.3	2
85	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
86	Multiregional Segmentation Modeling in Medical Ultrasonography: Extraction, Modeling and Quantification of Skin Layers and Hypertrophic Scars. Lecture Notes in Computer Science, 2017, , 182-192.	1.3	3
87	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
88	The Modelling of the Post-Operative Perfusion in Burns from LDI Data. Advances in Electrical and Electronic Engineering, 2017, 15, .	0.3	9
89	Biopotential Conducting Polymer Electrodes Design and Realization for ECG Measurement. , 2017, , .		1
90	Breathing Movement Analysis for Adjustment of Radiotherapy Planning. Studies in Computational Intelligence, 2017, , 105-116.	0.9	1

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91	Modeling of Blood Perfusion in Dependence of Scanning Angle from LDPI Data. , 2017, , .		0
92	Objective Measurement of Hypertrophic Scars using Skin Colorimeter. , 2017, , .		1
93	Cotton Fabric Coated with Conducting Polymers and its Application in Monitoring of Carnivorous Plant Response. Sensors, 2016, 16, 498.	3.8	35
94	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
95	Wearable PVDF transducer for biomechanical energy harvesting and gait cycle detection. , 2016, , .		10
96	Classification Method for Macular Lesions Using Fuzzy Thresholding Method. IFMBE Proceedings, 2016, , 239-244.	0.3	6
97	Extraction of Myocardial Fibrosis from MR Using Fuzzy Soft Thresholding Algorithm. , 2016, , .		2
98	Weariness and Vigilance Data Mining Using Mobile Platform Assessment. , 2016, , .		2
99	Mobile Multiple User Interactive System for Intelligent Information Assesment in Healthcare. , 2016, , .		0
100	Monitoring of CRT-D devices during radiation therapy in vitro. BioMedical Engineering OnLine, 2016, 15, 29.	2.7	11
101	A model transformation framework to increase OCL usability. Journal of King Saud University - Computer and Information Sciences, 2016, 28, 13-26.	3.9	2
102	Optical Nerve Disc Segmentation Using Circual Integro Differential Operator. Lecture Notes in Electrical Engineering, 2016, , 387-396.	0.4	2
103	Real Time Signal Detection and Computer Visualization of the Patient Respiration. Lecture Notes in Electrical Engineering, 2016, , 783-793.	0.4	4
104	Reconstruction of 4D CTA Brain Perfusion Images Using Transformation Methods. Advances in Intelligent Systems and Computing, 2016, , 203-211.	0.6	2
105	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
106	Surface of Articular Cartilage Extraction Using Fuzzy C-means Segmentation. Studies in Computational Intelligence, 2016, , 209-219.	0.9	3
107	The Evaluation of Light Conditions Influence and Corrections upon Doppler Blood Perfusion Imagining. Advances in Electrical and Electronic Engineering, 2016, 14, .	0.3	10
108	Electrical Technologies in Healthcareâ€"Cost of Development of Linear Octapolar Tool in the Czech Republic. Lecture Notes in Electrical Engineering, 2016, , 925-934.	0.4	0

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109	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
110	Model Kidney Function in Stabilizing of Blood Pressure. Lecture Notes in Computer Science, 2016, , 430-439.	1.3	0
111	Diagnosis of Vascular Access for Hemodialysis Using Software Application. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 420-427.	0.3	0
112	Software Simulation of CT Reconstructions and Artifacts. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 428-437.	0.3	3
113	Extraction of Myocardial Fibrosis Using Iterative Active Shape Method. Lecture Notes in Computer Science, 2016, , 698-707.	1.3	1
114	Design and Implementation of an Algorithm for System of Exposure Limit in Radiology. Studies in Computational Intelligence, 2016, , 433-443.	0.9	2
115	Segmentation of Macular Lesions Using Active Shape Contour Method. Advances in Intelligent Systems and Computing, 2016, , 213-221.	0.6	2
116	Table Lifting Mechanism Design for Medical Surgery Application base on Human Force Driven. Acta Mechanica Slovaca, 2016, 20, 60-66.	0.1	1
117	Implementation of Controlled Pacemaker. IFAC-PapersOnLine, 2015, 48, 413-417.	0.9	0
118	Real Time Breathing Signal Measurement: Current Methods. IFAC-PapersOnLine, 2015, 48, 153-158.	0.9	2
119	Hemodynamic Parameters Measurement Using Pulsed Doppler Effect. IFAC-PapersOnLine, 2015, 48, 409-412.	0.9	1
120	Computer Based Controlled Pacemaker Implementation. IFAC-PapersOnLine, 2015, 48, 448-453.	0.9	0
121	Colorectal cancer liver metastases: laparoscopic and open radiofrequency-assisted surgery. Wideochirurgia I Inne Techniki Maloinwazyjne, 2015, 2, 205-212.	0.7	11
122	The potential of medical device industry in technological and economical context. Therapeutics and Clinical Risk Management, 2015, 11, 1505.	2.0	25
123	Knowledge framework for clinical processes architecture and analysis. , 2015, , .		2
124	Semi-spherical Radiofrequency Bipolar Device â€" A New Technique for Liver Resection. Technology in Cancer Research and Treatment, 2015, 14, 573-582.	1.9	3
125	A combined negative selection algorithmâ€"particle swarm optimization for an email spam detection system. Engineering Applications of Artificial Intelligence, 2015, 39, 33-44.	8.1	100
126	Evaluating Customer Satisfaction: Linguistic Reasoning by Fuzzy Artificial Neural Networks. Studies in Computational Intelligence, 2015, , 91-100.	0.9	3

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127	Structural Properties of Potential Synthetic Vaccine Adjuvants - TLR Agonists. Current Medicinal Chemistry, 2015, 22, 3306-3325.	2.4	10
128	Universality of Oxime K203 for Reactivation of Nerve Agent-Inhibited AChE. Medicinal Chemistry, 2015, 11, 683-686.	1.5	7
129	Segmentation of MRI Data to Extract the Blood Vessels Based on Fuzzy Thresholding. Studies in Computational Intelligence, 2015, , 43-52.	0.9	5
130	New semi-spherical radiofrequency energy device for liver resection: an experimental study in pigs. Acta Veterinaria Brno, 2015, 84, 397-401.	0.5	1
131	Design of a synthetic ECG signal based on the Fourier series. , 2014, , .		12
132	Fuzzy algorithm for segmentation of images in extraction of objects from MRI. , 2014, , .		9
133	Precise Temperature Measurement for Increasing the Survival of Newborn Babies in Incubator Environments. Sensors, 2014, 14, 23563-23580.	3.8	8
134	Technical Development of a New Semispherical Radiofrequency Bipolar Device (RONJA):*Ex Vivo*and*In Vivo*Studies. BioMed Research International, 2014, 2014, 1-7.	1.9	1
135	Impact of human emotions on physiological characteristics. Proceedings of SPIE, 2014, , .	0.8	1
136	Battery check test on pacemaker by advanced technique. , 2014, , .		3
137	Dry contact less surface electrodes for bioelectrical measurements. , 2014, , .		2
138	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
139	Comparison of Classification Algorithms for Physical Activity Recognition. Advances in Intelligent Systems and Computing, 2014, , 123-131.	0.6	19
140	Articular Cartilage Defect Detection Based on Image Segmentation with Colour Mapping. Lecture Notes in Computer Science, 2014, , 214-222.	1.3	12
141	Similarity Analysis of EEG Data Based on Self Organizing Map Neural Network. Advances in Electrical and Electronic Engineering, 2014, 12, .	0.3	3
142	Unit for Recording External Events during Measuring of Biosignals. Elektronika Ir Elektrotechnika, 2014, 20, .	0.8	0
143	Pressure Distribution Measurement of Close Fitting Clothes on Human Body. IFMBE Proceedings, 2014, , 436-439.	0.3	0
144	Evaluation of Electrocardiographic Leads and Establishing Significance Intra-individuality. Advances in Intelligent Systems and Computing, 2014, , 295-303.	0.6	4

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145	Education of Biomedical Engineering in the Technical University of Ostrava. IFMBE Proceedings, 2014, , 531-534.	0.3	1
146	Comparison of classification techniques for actual fetal state determination. , 2014, , .		0
147	Comparison of classification techniques for actual fetal state determination. WIT Transactions on the Built Environment, 2014, , .	0.0	0
148	Emotional state and its impact on voice authentication accuracy. Proceedings of SPIE, 2013, , .	0.8	1
149	A comparison of success and time consumption of the most common methods for detection of the SSVEP. , 2013, , .		3
150	Intravenous catheter transfer function distortion testing. , 2013, , .		0
151	Guidelines for modelling BED in simultaneous radiotherapy of two volumes: tpv_1 and tpv_2. , 2013, , .		4
152	Layout optimization of electrodes for radiofrequency ablation instrument. , 2013, , .		2
153	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
154	Measurement and Analysis of Skin Incision Mechanical Properties Treated by Colagenous Glue. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 46-49.	0.4	0
155	Automated Measurement of Electrochemical Sensors. IFMBE Proceedings, 2013, , 1521-1524.	0.3	3
156	Advanced Bilirubin Measurement by a Photometric Method. Elektronika Ir Elektrotechnika, 2013, 19, .	0.8	18
157	Computer-Based Vectorcardiograph for Research Purposes. Elektronika Ir Elektrotechnika, 2013, 19, .	0.8	3
158	Biomedical Distributed Signal Processing and Analysis. Lecture Notes in Computer Science, 2013, , 88-95.	1.3	4
159	Computer Based Psychometric Testing and Well Being Software for Sleep Deprivation Analysis. Studies in Computational Intelligence, 2013, , 207-216.	0.9	2
160	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
161	Principal component analysis and fuzzy clustering of SA HRV during the Orthostatic challenge. , 2012, , .		5
162	Advanced Intracardial Biosignal Processing. Lecture Notes in Computer Science, 2012, , 215-223.	1.3	1

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163	Intelligent mechatronics system for biochemists bleedings verification. , 2012, , .		0
164	Influence of ionising radiation on intelligent electronic implantable devices. , 2012, , .		2
165	Remote measurement and control with sensors via the BT interface. , 2012, , .		1
166	Cloud Computing Environments for Biomedical Data Services. Lecture Notes in Computer Science, 2012, , 336-343.	1.3	16
167	Using a Differential Pressure Sensor as Spirometer. Lecture Notes in Computer Science, 2012, , 236-241.	1.3	3
168	Advanced Experimental Medical Diagnostic System Design and Realization. Elektronika Ir Elektrotechnika, 2012, 117, .	0.8	13
169	Electronic Invasive Blood Pressure Simulator Device for Patient Monitor Testing. Elektronika Ir Elektrotechnika, 2012, 122, .	0.8	4
170	Bio-inspired Genetic Algorithms on FPGA Evolvable Hardware. Lecture Notes in Computer Science, 2012, , 439-447.	1.3	4
171	Precise Temperature Stabilizing System of Liquids for the purpose Biomedical Applications. Elektronika Ir Elektrotechnika, 2012, 18, .	0.8	2
172	Evaluation of effect cardiac resynchronization therapy. , 2011, , .		1
173	Linear octapolar radiofrequency tool for liver ablation. , 2011, , .		2
174	Invasive blood pressure curves simulation device. , 2011, , .		1
175	Sensor Network for Measurement and Analysis on Medical Devices Quality Control. Communications in Computer and Information Science, 2011, , 182-196.	0.5	24
176	User Adaptive System for Data Management in Home Care Maintenance Systems. Lecture Notes in Computer Science, 2011, , 492-501.	1.3	4
177	Measurement and Diagnosis Assessment of Plethysmographycal Record. IFMBE Proceedings, 2011, , 320-323.	0.3	5
178	User Interactive Biomedical Data Web Services Application. Communications in Computer and Information Science, 2011, , 223-237.	0.5	26
179	Wireless Body Sensor Network in Health Maintenance Systems. Elektronika Ir Elektrotechnika, 2011, 115, .	0.8	22
180	Non Invasive Measurement and Visualizations of Blood Pressure. Elektronika Ir Elektrotechnika, 2011, 116, .	0.8	10

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181	Audiometry for Teaching Experiment in PowerLab Systems. Lecture Notes in Electrical Engineering, 2011, , 831-838.	0.4	1
182	Biomedical Engineering Education under European Union Support. IFMBE Proceedings, 2011, , 16-19.	0.3	1
183	Notice of Retraction: Plethysmography Bluetooth measurement. , 2010, , .		0
184	Simple data acquisition system for photopletysmography and electrocardiography. , 2010, , .		0
185	Notice of Retraction: Bed vibration measurement and evaluation for maintanace health systems. , 2010, , .		1
186	Verification of Set Up Dual-Chamber Pacemaker Electrical Parameters. , 2010, , .		8
187	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
188	Automatic Ranking of Eye Movement in Electrooculographic Records. , 2010, , .		4
189	Image registration in neurology applications. , 2010, , .		3
190	Detection of ECG Significant Waves for Biventricular Pacing Treatment. , 2010, , .		8
191	Personal system of remote health care. , 2010, , .		0
192	The measurement and failure simulations of basic ventilation modes. , 2010, , .		0
193	Performance test of multiplatform real time processing of biomedical signals. , 2010, , .		5
194	Notice of Retraction: Controlling Peacemakers by Accelerometers. , 2010, , .		3
195	A new method for identification of the significant point in the Plethysmografical record. , 2010, , .		4
196	Reduction of ECG precordial leads. , 2010, , .		1
197	Analog signal preprocessing in reflected Plethysmography. , 2010, , .		3
198	Web System for Electrophysiological Data Management. , 2010, , .		12

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199	Optical fiber distributed temperature sensor in cardiological surgeries. , 2010, , .		5
200	Finger Plethysmography Classification by Orthogonal Transformatios. , 2010, , .		2
201	Baseline wander elimination by Fourier series. , 2010, , .		4
202	Continuous Noninvasive Blood Pressure Measurement by Near Infra Red CCD Camera and Pulse Transmit Time Systems. , 2010, , .		7
203	Design and Application of Mobile Embedded Systems for Home Care Applications. , 2010, , .		12
204	Real Time Measurement and Visualization of ECG on Mobile Monitoring Stations of Biotelemetric System. Studies in Computational Intelligence, 2010, , 67-78.	0.9	4
205	Stimulation Parameter Testing and Verification during Pacing. IFMBE Proceedings, 2010, , 533-536.	0.3	1
206	The Functionality Control of Horizontal Agitators for Blood Bags. IFMBE Proceedings, 2010, , 859-862.	0.3	3
207	Security and Reliability of Data Transmissions in Biotelemetric System. IFMBE Proceedings, 2010, , 216-219.	0.3	3
208	Methods of Comparing ECG Reconstruction. , 2009, , .		20
209	Circadian Rhythm Processing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 286-289.	0.4	0
210	Determination of the Electric Parameters of Dual-Chamber Cardiostimulator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 290-293.	0.4	2
211	ECG Width Intervals Detection Using Mathematical Methods. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 294-297.	0.4	0
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