Tomasz Hachaj

List of Publications by Year
in descending order

80 papers	684 citations	706676 14 h-index	759306 22 g-index
87 all docs	87 docs citations	87 times ranked	469 citing authors

#	Article	IF	Citations
1	Eigenfaces-Based Steganography. Entropy, 2021, 23, 273.	1.1	6
2	Recognition of Cosmic Ray Images Obtained from CMOS Sensors Used in Mobile Phones by Approximation of Uncertain Class Assignment with Deep Convolutional Neural Network. Sensors, 2021, 21, 1963.	2.1	9
3	SLAM-OR: Simultaneous Localization, Mapping and Object Recognition Using Video Sensors Data in Open Environments from the Sparse Points Cloud. Sensors, 2021, 21, 4734.	2.1	8
4	The application of topological data analysis to human motion recognition. Czasopismo Techniczne, 2021, , 1-10.	0.2	1
5	Deep Convolutional Symmetric Encoderâ€"Decoder Neural Networks to Predict Studentsâ€™ Visual Attention. Symmetry, 2021, 13, 2246.	1.1	6
6	TIPS: A Framework for Text Summarising with Illustrative Pictures. Entropy, 2021, 23, 1614.	1.1	0
7	Deep Neural Network Architecture forÂLow-Dimensional Embedding andÂClassification ofÂCosmic Ray Images Obtained fromÂCMOS Cameras. Communications in Computer and Information Science, 2021, , 307-316.	0.4	1
8	RMoCap: an R language package for processing and kinematic analyzing motion capture data. Multimedia Systems, 2020, 26, 157-172.	3.0	4
9	Comparative Analysis of Supervised and Unsupervised Approaches Applied to Large-Scale â€œIn The Wildâ€• Face Verification. Symmetry, 2020, 12, 1832.	1.1	4
10	Image Hashtag Recommendations Using a Voting Deep Neural Network and Associative Rules Mining Approach. Entropy, 2020, 22, 1351.	1.1	8
11	A Method for Human Facial Image Annotation on Low Power Consumption Autonomous Devices. Sensors, 2020, 20, 2140.	2.1	1
12	Modern UVC stereovision cameraâ€™s calibration and disparity maps generation: mathematical basis, algorithms and implementations. Przeglad Elektrotechniczny, 2020, 1, 170-175.	0.1	1
13	Head Motion â€" Based Robotâ€™s Controlling System Using Virtual Reality Glasses. Advances in Intelligent Systems and Computing, 2020, , 6-13.	0.5	0
14	An evaluation of machine learning and latent semantic analysis in text sentiment classification. Czasopismo Techniczne, 2020, , 1-11.	0.2	0
15	Computer System Prototype for Qualitative and Quantitative Evaluation of Selected Movement Activities. , 2019, , .		0
16	Improving Human Motion Classification by Applying Bagging and Symmetry to PCA-Based Features. Symmetry, 2019, 11, 1264.	1.1	4
17	Head Motion Classification for Single-Accelerometer Virtual Reality Hardware. , 2019, , .		3
18	Evaluation of Pattern Recognition Methods for Head Gesture-Based Interface of a Virtual Reality Helmet Equipped with a Single IMU Sensor. Sensors, 2019, 19, 5408.	2.1	17

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19	Evaluation of Most Popular Sentiment Lexicons Coverage on Various Datasets. , 2019, , .		7
20	How Repetitive are Karate Kicks Performed by Skilled Practitioners?. , 2018, , .		4
21	Human actions recognition from motion capture recordings using signal resampling and pattern recognition methods. Annals of Operations Research, 2018, 265, 223-239.	2.6	10
22	What Can Be Learned from Bigrams Analysis of Messages in Social Network?. , 2018, , .		3
23	Classification of Karate Kicks with Hidden Markov Models Classifier and Angle-Based Features. , 2018, , .		8
24	Averaging of motion capture recordings for movements' templates generation. Multimedia Tools and Applications, 2018, 77, 30353-30380.	2.6	3
25	Supporting Rehabilitation Process with Novel Motion Capture Analysis Method. , 2018, , .		0
26	Heuristic Method for Calculation of Human Body Translation Using Data from Inertial Motion Capture Costume. International Journal of Electrical and Electronic Engineering and Telecommunications, 2018, , 26-29.	3.4	2
27	Clustering of trending topics in microblogging posts: A graph-based approach. Future Generation Computer Systems, 2017, 67, 297-304.	4.9	18
28	Initial proposition of kinematics model for selected karate actions analysis. Proceedings of SPIE, 2017, , .	0.8	1
29	Data-driven approach to human motion modeling with Lua and gesture description language. , 2017, , .		0
30	Key Frames Detection in Motion Capture Recordings Using Machine Learning Approaches. Advances in Intelligent Systems and Computing, 2017, , 79-86.	0.5	0
31	Advanced human motion analysis and visualization: Comparison of mawashi-geri kick of two elite karate athletes. , 2017, , .		3
32	The open online repository of karate motion capture data: A tool for scientists and sport educators. , 2017, , .		7
33	Human Actions Analysis: Templates Generation, Matching and Visualization Applied to Motion Capture of Highly-Skilled Karate Athletes. Sensors, 2017, 17, 2590.	2.1	39
34	Averaging Three-Dimensional Time-Varying Sequences of Rotations: Application to Preprocessing of Motion Capture Data. Lecture Notes in Computer Science, 2017, , 17-28.	1.0	4
35	Evaluation of Gesture Description Language in the role of touchless interface for virtual reality environment. Przeglad Elektrotechniczny, 2017, 1, 59-68.	0.1	1
36	Rule-Based Action Recognition: Performance Comparison between Lua and GDL Script Language. , 2016, , .		1

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37	Clusters of Trends Detection in Microblogging: Simple Natural Language Processing vs Hashtags â€" Which is More Informative?. , 2016, , .		3
38	The adaptation of GDL motion recognition system to sport and rehabilitation techniques analysis. Journal of Medical Systems, 2016, 40, 137.	2.2	8
39	How to Solve Common Human Actions Recognition Use Cases with Gesture Description Language. , 2016, , .		0
40	Creating Dynamically Changing World Map for Computer Games with Advanced Image Processing -- A Use Case. , 2016, , .		0
41	A Novel Approach to Geocaching Event Prognosis Using Spatiotemporal Data. , 2016, , .		0
42	Human actions recognition on multimedia hardware using angle-based and coordinate-based features and multivariate continuous hidden Markov model classifier. Multimedia Tools and Applications, 2016, 75, 16265-16285.	2.6	9
43	Application of Neural Network for Human Actions Recognition. Communications in Computer and Information Science, 2016, , 183-191.	0.4	0
44	Application of hidden markov models and gesture description language classifiers to Oyama karate techniques recognition. , 2015, , .		0
45	Application of Assistive Computer Vision Methods to Oyama Karate Techniques Recognition. Symmetry, 2015, 7, 1670-1698.	1.1	29
46	Learning from Annotated Video: An Initial Study Based on Oyama Karate Tournament Recordings. , 2015, , .		3
47	Human Actions Modelling and Recognition in Low-Dimensional Feature Space. , 2015, , .		6
48	Effectiveness Comparison of Kinect and Kinect 2 for Recognition of Oyama Karate Techniques. , 2015, , .		16
49	Knowledge Bricksâ€"Educational immersive reality environment. International Journal of Information Management, 2015, 35, 396-406.	10.5	7
50	Full body movements recognition â€" unsupervised learning approach with heuristic R-GDL method. , 2015, 46, 239-252.		22
51	Image Processing, Pattern Recognition, and Semantic Understanding Techniques. Advances in Computer Vision and Pattern Recognition, 2015, , 1-70.	0.9	2
52	Qualitative Evaluation of Full Body Movements with Gesture Description Language. , 2015, , .		3
53	Cognitive Methods for Semantic Image Analysis in Medical Imaging Applications. Advances in Computer Vision and Pattern Recognition, 2015, , 71-91.	0.9	0
54	Brain and Neck Visualization Techniques. Advances in Computer Vision and Pattern Recognition, 2015, , 153-204.	0.9	0

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55	Computer Analysis of Brain Perfusion and Neck Angiography Images. Advances in Computer Vision and Pattern Recognition, 2015, , 93-151.	0.9	0
56	Natural User Interfaces for Exploring and Modeling Medical Images and Defining Gesture Description Technology. Advances in Computer Vision and Pattern Recognition, 2015, , 205-279.	0.9	1
57	Unsupervised Learning of GDL Classifier. , 2014, , .		1
58	Recognition of Body Movements Patterns for Immersive Virtual Reality System Interface. , 2014, , .		3
59	Full-body gestures and movements recognition: user descriptive and unsupervised learning approaches in GDL classifier. , 2014, , .		8
60	Application of centerline detection and deformable contours algorithms to segmenting the carotid lumen. Journal of Electronic Imaging, 2014, 23, 023006.	0.5	3
61	Rule-based approach to recognizing human body poses and gestures in real time. Multimedia Systems, 2014, 20, 81-99.	3.0	95
62	Real time exploration and management of large medical volumetric datasets on small mobile devicesâ€"Evaluation of remote volume rendering approach. International Journal of Information Management, 2014, 34, 336-343.	10.5	25
63	Qualitative Evaluation of Full Body Movements with Gesture Description Language. , 2014, , .		2
64	Automatic segmentation of the carotid artery bifurcation region with a region-growing approach. Journal of Electronic Imaging, 2013, 22, 033029.	0.5	11
65	Real time area-based stereo matching algorithm for multimedia video devices. Opto-electronics Review, 2013, 21, .	2.4	5
66	Application of neural networks in detection of abnormal brain perfusion regions. Neurocomputing, 2013, 122, 33-42.	3.5	33
67	Framework for cognitive analysis of dynamic perfusion computed tomography with visualization of large volumetric data. Journal of Electronic Imaging, 2012, 21, 043017.	0.5	22
68	Neural Network Approach for Identification of Selected Brain Perfusion Abnormalities. , 2012, , .		0
69	Visualization of perfusion abnormalities with GPU-based volume rendering. Computers and Graphics, 2012, 36, 163-169.	1.4	22
70	Pattern Classification Methods for Analysis and Visualization of Brain Perfusion CT Maps. Studies in Computational Intelligence, 2012, , 145-170.	0.7	4
71	Semantic Description and Recognition of Human Body Poses and Movement Sequences with Gesture Description Language. Communications in Computer and Information Science, 2012, , 1-8.	0.4	17
72	Segmentation and Visualization of Tubular Structures in Computed Tomography Angiography. Lecture Notes in Computer Science, 2012, , 495-503.	1.0	5

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73	Evaluation of Carotid Artery Segmentation with Centerline Detection and Active Contours without Edges Algorithm. Lecture Notes in Computer Science, 2012, , 468-478.	1.0	2
74	CAD system for automatic analysis of CT perfusion maps. Opto-electronics Review, 2011, 19, .	2.4	23
75	A system for detecting and describing pathological changes using dynamic perfusion computer tomography brain maps. Computers in Biology and Medicine, 2011, 41, 402-410.	3.9	35
76	Computer-aided Intelligent Diagnostics of Dynamic Perfusion CT Maps. , 2011, , .		0
77	Intelligent Information System for Interpretation of Dynamic Perfusion Brain Maps. Lecture Notes in Computer Science, 2011, , 406-415.	1.0	0
78	Automatic Detection and Lesion Description in Cerebral Blood Flow and Cerebral Blood Volume Perfusion Maps. Journal of Signal Processing Systems, 2010, 61, 317-328.	1.4	17
79	Artificial Intelligence Methods for Understanding Dynamic Computer Tomography Perfusion Maps. , 2010, , .		3
80	Augmented Reality Interface for Visualization of Volumetric Medical Data. Advances in Intelligent and Soft Computing, 2010, , 271-277.	0.2	6