

# Marcin Grzegorzek

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

144 papers	935 citations	14 h-index	23 g-index
155 ext. papers	1,434 ext. citations	3.1 avg, IF	4.95 L-index

#	Paper	IF	Citations
144	SVIA dataset: A new dataset of microscopic videos and images for computer-aided sperm analysis. <i>Biocybernetics and Biomedical Engineering</i> , <b>2022</b> , 42, 204-214	5.7	5
143	IL-MCAM: An interactive learning and multi-channel attention mechanism-based weakly supervised colorectal histopathology image classification approach.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 143, 105265	7	7
142	GasHisSDB: A new gastric histopathology image dataset for computer aided diagnosis of gastric cancer.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 142, 105207	7	3
141	A new pairwise deep learning feature for environmental microorganism image analysis.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	4
140	A Comparative Study of Deep Learning Classification Methods on a Small Environmental Microorganism Image Dataset (EMDS-6): From Convolutional Neural Networks to Visual Transformers.. <i>Frontiers in Microbiology</i> , <b>2022</b> , 13, 792166	5.7	6
139	EMDS-6: Environmental Microorganism Image Dataset Sixth Version for Image Denoising, Segmentation, Feature Extraction, Classification, and Detection Method Evaluation.. <i>Frontiers in Microbiology</i> , <b>2022</b> , 13, 829027	5.7	2
138	Applications of artificial neural networks in microorganism image analysis: a comprehensive review from conventional multilayer perceptron to popular convolutional neural network and potential visual transformer.. <i>Artificial Intelligence Review</i> , <b>2022</b> , 1-58	9.7	4
137	A Machine Learning Framework for Automated Accident Detection Based on Multimodal Sensors in Cars. <i>Sensors</i> , <b>2022</b> , 22, 3634	3.8	0
136	TOD-CNN: An effective convolutional neural network for tiny object detection in sperm videos.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 146, 105543	7	1
135	CVM-Cervix: A Hybrid Cervical Pap-Smear Image Classification Framework Using CNN, Visual Transformer and Multilayer Perceptron. <i>Pattern Recognition</i> , <b>2022</b> , 108829	7.7	4
134	Classifying Changes in Motion Behaviour Due to Hospital Stay Using Floor Sensor Data A Single Case Study. <i>Advances in Intelligent Systems and Computing</i> , <b>2022</b> , 3-14	0.4	
133	PIS-Net: A Novel Pixel Interval Sampling Network for Dense Microorganism Counting in Microscopic Images. <i>Advances in Intelligent Systems and Computing</i> , <b>2022</b> , 307-318	0.4	
132	DVT: Application of Deep Visual Transformer in Cervical Cell Image Classification. <i>Advances in Intelligent Systems and Computing</i> , <b>2022</b> , 285-294	0.4	
131	Towards Automatic Skeleton Extraction With Skeleton Grafting. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2021</b> , 27, 4520-4532	4	3
130	Classification of Heat-Induced Pain Using Physiological Signals. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 239-251	0.4	
129	Is the aspect ratio of cells important in deep learning? A robust comparison of deep learning methods for multi-scale cytopathology cell image classification: From convolutional neural networks to visual transformers. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 141, 105026	7	5
128	Cross-Modal Music-Emotion Retrieval Using DeepCCA. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 133-145	0.4	2

127	Deep Malaria Parasite Detection in Thin Blood Smear Microscopic Images. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2284	2.6	8
126	Quality Assessment of 3D Synthesized Images Based on Textural and Structural Distortion Estimation. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2666	2.6	1
125	A Comparative Study of Feature Selection Approaches for Human Activity Recognition Using Multimodal Sensory Data. <i>Sensors</i> , <b>2021</b> , 21,	3.8	4
124	Short-Term Load Forecasting Using an Attended Sequential Encoder-Stacked Decoder Model with Online Training. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4927	2.6	1
123	A State-of-the-Art Review for Gastric Histopathology Image Analysis Approaches and Future Development. <i>BioMed Research International</i> , <b>2021</b> , 2021, 6671417	3	9
122	LCU-Net: A novel low-cost U-Net for environmental microorganism image segmentation. <i>Pattern Recognition</i> , <b>2021</b> , 115, 107885	7.7	29
121	Comparison of Feature Extraction Methods for Physiological Signals for Heat-Based Pain Recognition. <i>Sensors</i> , <b>2021</b> , 21,	3.8	4
120	Vojta-Therapy <b>2021</b> , 383-398		
119	Exploiting Superpixels for Multi-Focus Image Fusion. <i>Entropy</i> , <b>2021</b> , 23,	2.8	1
118	Detecting Walking Challenges in Gait Patterns Using a Capacitive Sensor Floor and Recurrent Neural Networks. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3
117	The Symphony of Team Flow in Virtual Teams. Using Artificial Intelligence for Its Recognition and Promotion. <i>Frontiers in Psychology</i> , <b>2021</b> , 12, 697093	3.4	1
116	A comprehensive review of image analysis methods for microorganism counting: from classical image processing to deep learning approaches. <i>Artificial Intelligence Review</i> , <b>2021</b> , 1-70	9.7	10
115	Vision-based approaches towards person identification using gait. <i>Computer Science Review</i> , <b>2021</b> , 42, 100432	8.3	3
114	Rank Pooling Approach for Wearable Sensor-Based ADLs Recognition. <i>Sensors</i> , <b>2020</b> , 20,	3.8	7
113	Marker-Based Movement Analysis of Human Body Parts in Therapeutic Procedure. <i>Sensors</i> , <b>2020</b> , 20,	3.8	9
112	A non-linear view transformations model for cross-view gait recognition. <i>Neurocomputing</i> , <b>2020</b> , 402, 100-111	5.4	10
111	Feature Extraction and Classification of Sensor Signals in Cars Based on a Modified Codebook Approach. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 184-194	0.4	1
110	Short-term load forecasting with discrete state Hidden Markov Models. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2020</b> , 38, 2273-2284	1.6	2

109	Recognition of Typical Locomotion Activities Based on the Sensor Data of a Smartphone in Pocket or Hand. <i>Sensors</i> , <b>2020</b> , 20,	3.8	2
108	Sleep stage classification for child patients using DeConvolutional Neural Network. <i>Artificial Intelligence in Medicine</i> , <b>2020</b> , 110, 101981	7.4	7
107	Comparison of 2.4 GHz WiFi FTM- and RSSI-Based Indoor Positioning Methods in Realistic Scenarios. <i>Sensors</i> , <b>2020</b> , 20,	3.8	18
106	Deep Transfer Learning for Time Series Data Based on Sensor Modality Classification. <i>Sensors</i> , <b>2020</b> , 20,	3.8	18
105	AI Approaches Towards Prechtl's Assessment of General Movements: A Systematic Literature Review. <i>Sensors</i> , <b>2020</b> , 20,	3.8	12
104	Deep Learning for Object Tracking in 360 Degree Videos. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 205-213	0.4	1
103	Automatic Detection of the Cracks on the Concrete Railway Sleepers. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , <b>2019</b> , 33, 1955010	1.1	3
102	Sensor Headband for Emotion Recognition in a Virtual Reality Environment. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 539-548	0.4	1
101	A generic codebook based approach for gait recognition. <i>Multimedia Tools and Applications</i> , <b>2019</b> , 78, 35689-35712	2.5	4
100	Electromyography Based Translator of the Polish Sign Language. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 93-102	0.4	
99	Electrooculography Application in Vision Therapy Using Smart Glasses. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 103-116	0.4	1
98	A polar model for fast object tracking in 360-degree camera images. <i>Multimedia Tools and Applications</i> , <b>2019</b> , 78, 9275-9297	2.5	2
97	Labeling of partially occluded regions via the multi-layer CRF. <i>Multimedia Tools and Applications</i> , <b>2019</b> , 78, 2551-2569	2.5	2
96	Spatiotemporal features of human motion for gait recognition. <i>Signal, Image and Video Processing</i> , <b>2019</b> , 13, 369-377	1.6	18
95	A computer vision-based system for monitoring Vojta therapy. <i>International Journal of Medical Informatics</i> , <b>2018</b> , 113, 85-95	5.3	14
94	A general framework for sensor-based human activity recognition. <i>Computers in Biology and Medicine</i> , <b>2018</b> , 95, 248-260	7	35
93	Environmental microorganism classification using conditional random fields and deep convolutional neural networks. <i>Pattern Recognition</i> , <b>2018</b> , 77, 248-261	7.7	44
92	Representation and Matching of Team Managers: An Experimental Research. <i>IEEE Transactions on Computational Social Systems</i> , <b>2018</b> , 5, 311-323	4.5	2

91	Example-Based 3D Trajectory Extraction of Objects From 2D Videos. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2018</b> , 28, 2246-2260	6.4	1
90	Less restrictive camera odometry estimation from monocular camera. <i>Multimedia Tools and Applications</i> , <b>2018</b> , 77, 16199-16222	2.5	1
89	Comparison of Feature Learning Methods for Human Activity Recognition Using Wearable Sensors. <i>Sensors</i> , <b>2018</b> , 18,	3.8	124
88	Using a generic model for codebook-based gait recognition algorithms <b>2018</b> ,		1
87	A Vision-Based Method for Automatic Crack Detection in Railway Sleepers. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 130-139	0.4	3
86	Gait Recognition Using Motion Trajectory Analysis. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 73-82	0.4	7
85	Codebook-based electrooculography data analysis towards cognitive activity recognition. <i>Computers in Biology and Medicine</i> , <b>2018</b> , 95, 277-287	7	5
84	[Regular Paper] Biomedical Data Acquisition and Processing to Recognize Emotions for Affective Learning <b>2018</b> ,		3
83	Smartphone-Based Indoor Localization within a 13th Century Historic Building. <i>Sensors</i> , <b>2018</b> , 18,	3.8	8
82	Training-Based Methods for Comparison of Object Detection Methods for Visual Object Tracking. <i>Sensors</i> , <b>2018</b> , 18,	3.8	4
81	Cross- View Gait Recognition Using Non-Linear View Transformations of Spatiotemporal Features <b>2018</b> ,		1
80	Detection of Infantile Movement Disorders in Video Data Using Deformable Part-Based Model. <i>Sensors</i> , <b>2018</b> , 18,	3.8	11
79	Evaluating contour segment descriptors. <i>Machine Vision and Applications</i> , <b>2017</b> , 28, 373-391	2.8	6
78	Automatic Detection of Blue-Whitish Veil as the Primary Dermoscopic Feature. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 649-657	0.9	4
77	Augmenting Cognitive Processes and Behavior of Intelligent Virtual Agents by Modeling Synthetic Perception <b>2017</b> ,		1
76	On the Generality of Codebook Approach for Sensor-Based Human Activity Recognition. <i>Electronics (Switzerland)</i> , <b>2017</b> , 6, 44	2.6	12
75	Vojta-Therapy. <i>International Journal of Software Innovation</i> , <b>2017</b> , 5, 18-32	0.8	4
74	Integration of Multi-modal Cues in Synthetic Attention Processes to Drive Virtual Agent Behavior. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 403-412	0.9	1

73	Recovering from sample impoverishment in context of indoor localisation <b>2017</b> ,		4
72	Person identification using spatiotemporal motion characteristics <b>2017</b> ,		4
71	On Wi-Fi Model Optimizations for Smartphone-Based Indoor Localization. <i>ISPRS International Journal of Geo-Information</i> , <b>2017</b> , 6, 233	2.9	15
70	Action Sequence Matching of Team Managers <b>2017</b> ,		5
69	Real-Time Gesture Recognition using a Particle Filtering Approach <b>2017</b> ,		2
68	Classification of Physiological Data for Emotion Recognition. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 619-627	0.9	4
67	Towards large-scale multimedia retrieval enriched by knowledge about human interpretation. <i>Multimedia Tools and Applications</i> , <b>2016</b> , 75, 297-331	2.5	15
66	Stem cell microscopic image segmentation using supervised normalized cuts <b>2016</b> ,		3
65	Emotion Recognition Based on Physiological Sensor Data Using Codebook Approach. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 27-39	0.4	4
64	Human Activity Recognition Using Smartphone Sensors. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 41-47	0.4	4
63	Improving object classification robustness in RGB-D using adaptive SVMs. <i>Multimedia Tools and Applications</i> , <b>2016</b> , 75, 6829-6847	2.5	4
62	Environmental microbiology aided by content-based image analysis. <i>Pattern Analysis and Applications</i> , <b>2016</b> , 19, 531-547	2.3	12
61	Object matching with hierarchical skeletons. <i>Pattern Recognition</i> , <b>2016</b> , 55, 183-197	7.7	24
60	Environmental Microbiological Content-Based Image Retrieval System Using Internal Structure Histogram. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 543-552	0.4	4
59	Stripes-Based Object Matching. <i>Studies in Computational Intelligence</i> , <b>2016</b> , 59-72	0.8	2
58	Shape-Based Eye Blinking Detection and Analysis. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 327-335	0.4	
57	Convoy Detection in Crowded Surveillance Videos. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 137-147	0.9	1
56	Content-Based Microscopic Image Retrieval of Environmental Microorganisms Using Multiple Colour Channels Fusion. <i>Studies in Computational Intelligence</i> , <b>2016</b> , 119-130	0.8	4

55	Unknown object tracking in 360-degree camera images <b>2016</b> ,		5
54	Automatic recognition of movement patterns in the vojta-therapy using RGB-D data <b>2016</b> ,		9
53	Codebook approach for sensor-based human activity recognition <b>2016</b> ,		6
52	Multiple human detection in depth images <b>2016</b> ,		10
51	An automatic vision-based monitoring system for accurate Vojta-therapy <b>2016</b> ,		5
50	Investigations on skeleton completeness for skeleton-based shape matching <b>2016</b> ,		2
49	On Monte Carlo smoothing in multi sensor indoor localisation <b>2016</b> ,		7
48	Polar Object Tracking in 360-Degree Camera Images <b>2016</b> ,		2
47	Shape-based object matching using interesting points and high-order graphs. <i>Pattern Recognition Letters</i> , <b>2016</b> , 83, 251-260	4.7	12
46	<b>2016</b> ,		7
45	Multi-scale textural feature extraction and particle swarm optimization based model selection for false positive reduction in mammography. <i>Computerized Medical Imaging and Graphics</i> , <b>2015</b> , 46 Pt 2, 95-107	7.6	33
44	Shape-based Object Matching Using Point Context <b>2015</b> ,		5
43	Environmental Microorganism Classification Using Sparse Coding and Weakly Supervised Learning <b>2015</b> ,		11
42	Object detection and depth estimation for 3D trajectory extraction <b>2015</b> ,		1
41	Extracting 3D Trajectories of Objects from 2D Videos using Particle Filter <b>2015</b> ,		1
40	Application of content-based image analysis to environmental microorganism classification. <i>Biocybernetics and Biomedical Engineering</i> , <b>2015</b> , 35, 10-21	5.7	22
39	Skeleton-based audio envelope shape analysis <b>2015</b> ,		1
38	Interactive tracking of insect posture. <i>Pattern Recognition</i> , <b>2015</b> , 48, 3560-3571	7.7	6

37	Video Retrieval Based on Uncertain Concept Detection Using Dempster-Shafer Theory <b>2015</b> , 269-294		1
36	Enhanced surface normal computation by exploiting RGB-D sensory information <b>2015</b> ,		1
35	Multi sensor 3D indoor localisation <b>2015</b> ,		13
34	Weakly supervised detection of video events using hidden conditional random fields. <i>International Journal of Multimedia Information Retrieval</i> , <b>2015</b> , 4, 17-32	2.4	2
33	Shape-based Object Retrieval and Classification with Supervised Optimisation <b>2015</b> ,		3
32	Shape Matching Using Point Context and Contour Segments. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 95-110	0.9	
31	Robust self-localization using Wi-Fi, step/turn-detection and recursive density estimation <b>2014</b> ,		1
30	Shape-based object retrieval by contour segment matching <b>2014</b> ,		13
29	Shape-Based Classification of Environmental Microorganisms <b>2014</b> ,		13
28	Multimedia Event Detection Using Hidden Conditional Random Fields <b>2014</b> ,		2
27	A New Aortic Aneurysm CT Series Registration Algorithm. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 15-26	0.4	3
26	Matching of 3D Objects Based on 3D Curves. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2014</b> , 137-155	1.1	
25	Trends in semantic and digital media technologies. <i>Multimedia Tools and Applications</i> , <b>2013</b> , 62, 311-318	2.5	1
24	Classification of environmental microorganisms in microscopic images using shape features and support vector machines <b>2013</b> ,		15
23	Extended Investigations on Skeleton Graph Matching for Object Recognition. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 371-381	0.4	3
22	Texture-Based Text Detection in Digital Images with Wavelet Features and Support Vector Machines. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 857-866	0.4	2
21	Examining the applicability of virtual reality technique for video retrieval <b>2012</b> ,		1
20	Blood Vessel Segmentation in HRT Images for Glaucoma Early Detection. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 1-12	0.9	



19	Dense statistic versus sparse feature-based approach for 3D object recognition. <i>Pattern Recognition and Image Analysis</i> , <b>2011</b> , 21, 238-241	1	2
18	A Generic Approach to the Texture Detection Problem in Digital Images. <i>Advances in Intelligent and Soft Computing</i> , <b>2011</b> , 375-384		
17	Teeth segmentation in 3D dentition models for the virtual articulator <b>2010</b> ,		2
16	Classification of image regions using the wavelet standard deviation descriptor <b>2010</b> ,		1
15	Local Wavelet Features for Statistical Object Classification and Localization. <i>IEEE MultiMedia</i> , <b>2010</b> , 17, 118-118	2.1	9
14	A system for 3D texture-based probabilistic object recognition and its applications. <i>Pattern Analysis and Applications</i> , <b>2010</b> , 13, 333-348	2.3	5
13	Introduction to the special issue on semantic and digital media technologies. <i>Multimedia Tools and Applications</i> , <b>2010</b> , 49, 1-5	2.5	
12	A Multi-stage Approach for 3D Teeth Segmentation from Dentition Surfaces. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 521-530	0.9	3
11	Counting Lymphocytes in Histopathology Images Using Connected Components. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 263-269	0.9	3
10	Wavelet-Based Inpainting for Object Removal from Image Series. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 343-352	0.9	
9	Large Scale Tag Recommendation Using Different Image Representations. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 65-76	0.9	5
8	Semantic Multimedia. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 125-170	0.9	9
7	Labelling Image Regions Using Wavelet Features and Spatial Prototypes. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 89-104	0.9	4
6	Fast training for object recognition with structure-from-motion. <i>Pattern Recognition and Image Analysis</i> , <b>2007</b> , 17, 87-92	1	
5	K-Space Content Management and Retrieval System <b>2007</b> ,		4
4	Appearance-based recognition of 3-D objects by cluttered background and occlusions. <i>Pattern Recognition</i> , <b>2005</b> , 38, 739-753	7.7	6
3	Statistical Object Recognition Including Color Modeling. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 481-489	9	5
2	Feature Extraction with Wavelet Transformation for Statistical Object Recognition. <i>Advances in Soft Computing</i> , <b>2005</b> , 161-168		2

- 1 A comprehensive review of computer-aided whole-slide image analysis: from datasets to feature extraction, segmentation, classification and detection approaches. *Artificial Intelligence Review*, 1 9.7 8