

# Andrzej Czyżewski

## List of Publications by Year in descending order

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167  
papers

967  
citations

687363

13  
h-index

713466

21  
g-index

184  
all docs

184  
docs citations

184  
times ranked

583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Decision Fusion Methods for Multimodal Biometrics in the Banking Application. Sensors, 2022, 22, 2356.	3.8	8
2	Remote Health Monitoring of Wind Turbines Employing Vibroacoustic Transducers and Autoencoders. Frontiers in Energy Research, 2022, 10, .	2.3	2
3	Robust Object Detection with Multi-input Multi-output Faster R-CNN. Lecture Notes in Computer Science, 2022, , 572-583.	1.3	2
4	Examining Impact of Speed Recommendation Algorithm Operating in Autonomous Road Signs on Minimum Distance between Vehicles. Remote Sensing, 2022, 14, 2803.	4.0	2
5	An Automated Method for Biometric Handwritten Signature Authentication Employing Neural Networks. Electronics (Switzerland), 2021, 10, 456.	3.1	13
6	Adaptive Method for Modeling of Temporal Dependencies between Fields of Vision in Multi-Camera Surveillance Systems. Electronics (Switzerland), 2021, 10, 1303.	3.1	1
7	Evaluation of aspiration problems in L2 English pronunciation employing machine learning. Journal of the Acoustical Society of America, 2021, 150, 120-132.	1.1	8
8	Mining Knowledge of Respiratory Rate Quantification and Abnormal Pattern Prediction. Cognitive Computation, 2021, , 1-21.	5.2	4
9	Robustness in Compressed Neural Networks for Object Detection. , 2021, , .		2
10	Closer Look at the Uncertainty Estimation in Semantic Segmentation under Distributional Shift. , 2021, , .		4
11	CyberEye: New Eye-Tracking Interfaces for Assessment and Modulation of Cognitive Functions beyond the Brain. Sensors, 2021, 21, 7605.	3.8	6
12	Toward Robust Pedestrian Detection With Data Augmentation. IEEE Access, 2020, 8, 136674-136683.	4.2	21
13	Vehicle Detection with Self-Training for Adaptative Video Processing Embedded Platform. Applied Sciences (Switzerland), 2020, 10, 5763.	2.5	6
14	System for monitoring road slippery based on CCTV cameras and convolutional neural networks. Journal of Intelligent Information Systems, 2020, 55, 521-534.	3.9	12
15	Estimating Traffic Intensity Employing Passive Acoustic Radar and Enhanced Microwave Doppler Radar Sensor. Remote Sensing, 2020, 12, 110.	4.0	16
16	Multifactor consciousness level assessment of participants with acquired brain injuries employing humanâ€“computer interfaces. BioMedical Engineering OnLine, 2020, 19, 2.	2.7	3
17	Audio Feature Analysis for Precise Vocalic Segments Classification in English. Communications in Computer and Information Science, 2020, , 265-277.	0.5	0
18	Evaluating Calibration and Robustness of Pedestrian Detectors. Communications in Computer and Information Science, 2020, , 98-111.	0.5	0

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19	Automatic Marking of Allophone Boundaries in Isolated English Spoken Words. Lecture Notes in Computer Science, 2020, , 51-62.	1.3	0
20	Comparing Traffic Intensity Estimates Employing Passive Acoustic Radar and Microwave Doppler Radar Sensor. Proceedings of Meetings on Acoustics, 2020, , .	0.3	0
21	Speech Analytics Based on Machine Learning. Intelligent Systems Reference Library, 2019, , 129-157.	1.2	4
22	Variable length sliding models for banking clients face biometry. Multimedia Tools and Applications, 2019, 78, 7749-7766.	3.9	4
23	Comparison of the effectiveness of automatic EEG signal class separation algorithms. Journal of Intelligent and Fuzzy Systems, 2019, 37, 7537-7543.	1.4	1
24	Method for Clustering of Brain Activity Data Derived from EEG Signals. Fundamenta Informaticae, 2019, 168, 249-268.	0.4	1
25	Development of Intelligent Road Signs with V2X Interface for Adaptive Traffic Controlling. , 2019, , .		5
26	Database of speech and facial expressions recorded with optimized face motion capture settings. Journal of Intelligent Information Systems, 2019, 53, 381-404.	3.9	4
27	Human Computer Interface for Tracking Eye Movements Improves Assessment and Diagnosis of Patients With Acquired Brain Injuries. Frontiers in Neurology, 2019, 10, 6.	2.4	12
28	Style Transfer for Detecting Vehicles with Thermal Camera. , 2019, , .		5
29	Adjusting automatically marked voiced English allophone borders. , 2019, , .		1
30	Comparative study on the effectiveness of various types of road traffic intensity detectors. , 2019, , .		4
31	Post-comatose patients with minimal consciousness tend to preserve reading comprehension skills but neglect syntax and spelling. Scientific Reports, 2019, 9, 19929.	3.3	2
32	Automatic Clustering of EEG-Based Data Associated with Brain Activity. Lecture Notes in Computer Science, 2019, , 470-479.	1.3	1
33	Analysis of results of large-scale multimodal biometric identity verification experiment. IET Biometrics, 2019, 8, 92-100.	2.5	11
34	Validating data acquired with experimental multimodal biometric system installed in bank branches. Journal of Intelligent Information Systems, 2019, 52, 1-31.	3.9	8
35	Comparison of Methods for Real and Imaginary Motion Classification from EEG Signals. Studies in Big Data, 2019, , 247-257.	1.1	2
36	Handwritten Signature Verification System Employing Wireless Biometric Pen. Studies in Big Data, 2019, , 307-319.	1.1	3

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37	Selection of Features for Multimodal Vocalic Segments Classification. Lecture Notes in Computer Science, 2019, , 490-500.	1.3	2
38	Assessment of Therapeutic Progress After Acquired Brain Injury Employing Electroencephalography and Autoencoder Neural Networks. Advances in Intelligent Systems and Computing, 2019, , 961-967.	0.6	0
39	Modelling of Objects Behaviour for Their Re-identification in Multi-camera Surveillance System Employing Particle Filters and Flow Graphs. Advances in Intelligent Systems and Computing, 2019, , 79-86.	0.6	0
40	Machine Learning-based Analysis of English Lateral Allophones. International Journal of Applied Mathematics and Computer Science, 2019, 29, 393-405.	1.5	12
41	Automatic labeling of traffic sound recordings using autoencoder-derived features. , 2019, , .		2
42	A comparative study of English viseme recognition methods and algorithms. Multimedia Tools and Applications, 2018, 77, 16495-16532.	3.9	15
43	Comparison of Classification Methods for EEG Signals of Real and Imaginary Motion. Intelligent Systems Reference Library, 2018, , 227-239.	1.2	6
44	An application of acoustic sensors for the monitoring of road traffic. , 2018, , .		1
45	Employing economical methods for pavement defects estimation. MATEC Web of Conferences, 2018, 231, 01016.	0.2	0
46	Vehicle detector training with labels derived from background subtraction algorithms in video surveillance. , 2018, , .		3
47	Vocalic Segments Classification Assisted by Mouth Motion Capture. , 2018, , .		1
48	Objectivization of Phonological Evaluation of Speech Elements by Means of Audio Parametrization. , 2018, , .		1
49	Visual perception of vowels from static and dynamic cues. Journal of the Acoustical Society of America, 2018, 143, EL328-EL332.	1.1	0
50	Performance Analysis of Developed Multimodal Biometric Identity Verification System. Elektronika, 2018, 1, 37-44.	0.0	2
51	An audio-visual corpus for multimodal automatic speech recognition. Journal of Intelligent Information Systems, 2017, 49, 167-192.	3.9	54
52	Evaluation of Face Detection Algorithms for the Bank Client Identity Verification. Foundations of Computing and Decision Sciences, 2017, 42, 137-148.	1.2	7
53	Multimodal approach for polysensory stimulation and diagnosis of subjects with severe communication disorders. Procedia Computer Science, 2017, 121, 238-243.	2.0	3
54	Comparison of selected electroencephalographic signal classification methods. , 2017, , .		0

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55	Pilot testing of developed multimodal biometric identity verification system. , 2017, , .		4
56	Road surface roughness estimation employing integrated position and acceleration sensor. , 2017, , .		2
57	The Project IDENT: Multimodal Biometric System for Bank Client Identity Verification. Communications in Computer and Information Science, 2017, , 16-32.	0.5	4
58	Traffic Noise Analysis Applied to Automatic Vehicle Counting and Classification. Communications in Computer and Information Science, 2017, , 110-123.	0.5	4
59	Multimodal System for Diagnosis and Polysensory Stimulation of Subjects with Communication Disorders. Lecture Notes in Computer Science, 2017, , 47-56.	1.3	1
60	A Method of Object Re-identification Applicable to Multicamera Surveillance Systems. Communications in Computer and Information Science, 2017, , 98-109.	0.5	0
61	Video analytics-based algorithm for monitoring egress from buildings. Multimedia Tools and Applications, 2016, 75, 10733-10743.	3.9	1
62	Parallel implementation of background subtraction algorithms for real-time video processing on a supercomputer platform. Journal of Real-Time Image Processing, 2016, 11, 111-125.	3.5	25
63	Adaptive Personal Tuning of Sound in Mobile Computers. AES: Journal of the Audio Engineering Society, 2016, 64, 405-428.	1.0	3
64	Comparison of acoustic and visual voice activity detection for noisy speech recognition. , 2016, , .		2
65	A handwritten signature verification method employing a tablet. , 2016, , .		6
66	Face detection algorithms evaluation for the bank client verification. , 2016, , .		4
67	A Study in Experimental Methods of Human-Computer Communication for Patients After Severe Brain Injuries. Lecture Notes in Computer Science, 2016, , 689-703.	1.3	2
68	3D Acoustic Field Intensity Probe Design and Measurements. Archives of Acoustics, 2016, 41, 701-711.	0.8	9
69	Methodology and technology for the polymodal allophonic speech transcription. Proceedings of Meetings on Acoustics, 2016, , .	0.3	0
70	Multimedia polysensory integration training system dedicated to children with educational difficulties. Journal of Intelligent Information Systems, 2016, 47, 531-552.	3.9	2
71	Complexity analysis of the Pawlak's flowgraph extension for re-identification in multi-camera surveillance system. Multimedia Tools and Applications, 2016, 75, 10495-10511.	3.9	2
72	Processing of acoustical data in a multimodal bank operating room surveillance system. Multimedia Tools and Applications, 2016, 75, 10787-10805.	3.9	8

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73	Detection, classification and localization of acoustic events in the presence of background noise for acoustic surveillance of hazardous situations. Multimedia Tools and Applications, 2016, 75, 10407-10439.	3.9	45
74	Improving listeners' experience for movie playback through enhancing dialogue clarity in soundtracks. , 2016, 48, 40-49.		5
75	A System for Acoustic Field Measurement Employing Cartesian Robot. Metrology and Measurement Systems, 2016, 23, 333-343.	1.4	3
76	Multimodal Attention Stimulator. Lecture Notes in Computer Science, 2016, , 568-571.	1.3	0
77	Enhanced voice user interface employing spatial filtration of signals from acoustic vector sensor. , 2015, , .		3
78	Visual and auditory attention stimulator for assisting pedagogical therapy. , 2015, , .		0
79	Application of fast cameras to string vibrations recording. , 2015, , .		1
80	Selection of Visual Descriptors for the Purpose of Multi-camera Object Re-identification. Studies in Computational Intelligence, 2015, , 263-303.	0.9	2
81	Rough Set Based Modeling and Visualization of the Acoustic Field Around the Human Head. Lecture Notes in Computer Science, 2015, , 418-427.	1.3	0
82	Knowledge representation of motor activity of patients with Parkinson's disease. Natural Computing, 2015, 14, 579-591.	3.0	1
83	Vision-based parking lot occupancy evaluation system using 2D separable discrete wavelet transform. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2015, 63, 569-573.	0.8	3
84	Massive surveillance data processing with supercomputing cluster. Information Sciences, 2015, 296, 322-344.	6.9	5
85	Analysis of impact of audio modifications on the robustness of watermark for non-blind architecture. Multimedia Tools and Applications, 2015, 74, 4415-4435.	3.9	5
86	A method for counting people attending large public events. Multimedia Tools and Applications, 2015, 74, 4289-4301.	3.9	20
87	Face Profile View Retrieval Using Time of Flight Camera Image Analysis. Lecture Notes in Computer Science, 2015, , 159-168.	1.3	5
88	Survey on Applications of Multimedia Technology to Examine Impact of Roadside Advertising on Drivers. Communications in Computer and Information Science, 2015, , 141-155.	0.5	0
89	Language material for English audiovisual speech recognition system development. Proceedings of Meetings on Acoustics, 2014, , .	0.3	1
90	Visual lip contour detection for the purpose of speech recognition. , 2014, , .		13

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91	Detection and localization of selected acoustic events in acoustic field for smart surveillance applications. Multimedia Tools and Applications, 2014, 68, 5-21.	3.9	34
92	Employing flowgraphs for forward route reconstruction in video surveillance system. Journal of Intelligent Information Systems, 2014, 43, 521-535.	3.9	8
93	Acceleration of decision making in sound event recognition employing supercomputing cluster. Information Sciences, 2014, 285, 223-236.	6.9	13
94	Online sound restoration system for digital library applications. Proceedings of Meetings on Acoustics, 2014, , .	0.3	1
95	Computer-Supported Polysensory Integration Technology for Educationally Handicapped Pupils. Lecture Notes in Computer Science, 2014, , 224-233.	1.3	1
96	Frequently updated noise threat maps created with use of supercomputing grid. Noise Mapping, 2014, 1, .	1.8	1
97	Modelling Object Behaviour in a Video Surveillance System Using Pawlak's Flowgraph. Communications in Computer and Information Science, 2014, , 122-136.	0.5	1
98	Development of Domain-Specific Solutions Within the Polish Infrastructure for Advanced Scientific Research. Lecture Notes in Computer Science, 2014, , 237-250.	1.3	0
99	Supercomputing Grid-Based Services for Hearing Protection and Acoustical Urban Planning, Research and Education. Lecture Notes in Computer Science, 2014, , 263-277.	1.3	0
100	Multimodal Human-Computer Interfaces Based on Advanced Video and Audio Analysis. Advances in Intelligent Systems and Computing, 2014, , 87-102.	0.6	3
101	Evaluation of Sound Event Detection, Classification and Localization in the Presence of Background Noise for Acoustic Surveillance of Hazardous Situations. Communications in Computer and Information Science, 2014, , 96-110.	0.5	2
102	Eye-Gaze Tracking-Based Telepresence System for Videoconferencing. Lecture Notes in Computer Science, 2014, , 432-441.	1.3	0
103	Examining Quality of Hand Segmentation Based on Gaussian Mixture Models. Communications in Computer and Information Science, 2014, , 111-121.	0.5	0
104	Multimodal human-computer interfaces based on advanced video and audio analysis. , 2013, , .		1
105	Adaptive Method of Adjusting Flowgraph for Route Reconstruction in Video Surveillance Systems. Fundamenta Informaticae, 2013, 127, 561-576.	0.4	6
106	Spatial Calibration of a Dual PTZ-Fixed Camera System for Tracking Moving Objects in Video. Journal of Imaging Science and Technology, 2013, 57, 1-10.	0.5	4
107	Creating Dynamic Maps of Noise Threat Using PL-Grid Infrastructure. Archives of Acoustics, 2013, 38, 235-242.	0.8	10
108	Visual Objects Description for Their Re-identification in Multi-Camera Systems. Advances in Intelligent Systems and Computing, 2013, , 45-54.	0.6	2

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109	Audio-Visual Surveillance System for Application in Bank Operating Room. Communications in Computer and Information Science, 2013, , 107-120.	0.5	2
110	Cartographic Representation of Route Reconstruction Results in Video Surveillance System. Advances in Intelligent Systems and Computing, 2013, , 35-44.	0.6	0
111	Video Analytics-Based Algorithm for Monitoring Egress from Buildings. Communications in Computer and Information Science, 2013, , 224-232.	0.5	0
112	Low-Level Music Feature Vectors Embedded as Watermarks. Studies in Computational Intelligence, 2013, , 453-473.	0.9	2
113	Intelligent Control of Spectral Subtraction Algorithm for Noise Removal from Audio. Studies in Computational Intelligence, 2013, , 475-488.	0.9	1
114	Online urban acoustic noise monitoring system. Noise Control Engineering Journal, 2012, 60, 69-84.	0.3	15
115	Analysis of Impact of Lossy Audio Compression on the Robustness of Watermark Embedded in the DWT Domain for Non-blind Copyright Protection. Communications in Computer and Information Science, 2012, , 36-46.	0.5	3
116	Distributed System for Noise Threat Evaluation Based on Psychoacoustic Measurements. Metrology and Measurement Systems, 2012, 19, .	1.4	4
117	Methods of Improving Speech Intelligibility for Listeners with Hearing Resolution Deficit. Diagnostic Pathology, 2012, 7, 129.	2.0	7
118	AWARENESS EVALUATION OF PATIENTS IN VEGETATIVE STATE EMPLOYING EYE-GAZE TRACKING SYSTEM. International Journal on Artificial Intelligence Tools, 2012, 21, 1240007.	1.0	7
119	Improved method for real-time speech stretching. Intelligent Decision Technologies, 2012, 6, 177-185.	0.9	2
120	Virtual Whiteboard: A gesture-controlled pen-free tool emulating school whiteboard. Intelligent Decision Technologies, 2012, 6, 161-169.	0.9	4
121	Intelligent video and audio applications for learning enhancement. Journal of Intelligent Information Systems, 2012, 38, 555-574.	3.9	4
122	Camera Sabotage Detection for Surveillance Systems. Lecture Notes in Computer Science, 2012, , 45-53.	1.3	4
123	System Supporting Speech Perception in Special Educational Needs Schoolchildren. Lecture Notes in Computer Science, 2012, , 133-136.	1.3	0
124	Application of Virtual Gate for Counting People Participating in Large Public Events. Communications in Computer and Information Science, 2012, , 316-327.	0.5	1
125	Online Sound Restoration for Digital Library Applications. Studies in Computational Intelligence, 2012, , 227-242.	0.9	3
126	Multimodal Audio-Visual Recognition of Traffic Events. , 2011, , .		2



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127	Reversible video stream anonymization for video surveillance systems based on pixels relocation and watermarking. , 2011, , .		15
128	Behavior Analysis and Dynamic Crowd Management in Video Surveillance System. , 2011, , .		16
129	Visual object tracking system employing fixed and PTZ cameras. Intelligent Decision Technologies, 2011, 5, 177-188.	0.9	6
130	Application of Vector Sensors to Acoustic Surveillance of a Public Interior Space. Archives of Acoustics, 2011, 36, .	0.8	12
131	New approach to railway noise modeling employing Genetic Algorithms. Applied Acoustics, 2011, 72, 611-622.	3.3	8
132	Fluctuation-enhanced scent sensing using a single gas sensor. Sensors and Actuators B: Chemical, 2011, 157, 85-91.	7.8	14
133	Problems of Railway Noise – A Case Study. International Journal of Occupational Safety and Ergonomics, 2011, 17, 309-325.	1.9	25
134	Detection and Localization of Selected Acoustic Events in 3D Acoustic Field for Smart Surveillance Applications. Communications in Computer and Information Science, 2011, , 55-63.	0.5	8
135	Intelligent Multimedia Solutions Supporting Special Education Needs. Lecture Notes in Computer Science, 2011, , 1-15.	1.3	1
136	Creating Acoustic Maps Employing Supercomputing Cluster. Archives of Acoustics, 2011, 36, .	0.8	9
137	Multimedia Interface Using Head Movements Tracking. Advances in Intelligent and Soft Computing, 2011, , 41-47.	0.2	0
138	Human Tracking in Multi-camera Visual Surveillance System. Communications in Computer and Information Science, 2011, , 277-285.	0.5	0
139	Long-Term Comparative Evaluation of Acoustic Climate in Selected Schools Before and After Acoustic Treatment. Archives of Acoustics, 2010, 35, 551-564.	0.8	6
140	Reduction of parasitic pitch variations in archival musical recordings. Signal Processing, 2010, 90, 981-990.	3.7	4
141	Smart Pen – new multimodal computer control tool for graphomotorical therapy. Intelligent Decision Technologies, 2010, 4, 197-209.	0.9	5
142	Gaze-tracking-based audio-visual correlation analysis employing quality of experience methodology. Intelligent Decision Technologies, 2010, 4, 217-227.	0.9	13
143	Vehicle Classification Based on Soft Computing Algorithms. Lecture Notes in Computer Science, 2010, , 70-79.	1.3	15
144	Scent Emitting Multimodal Computer Interface for Learning Enhancement. , 2010, , .		3

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145	Gaze-tracking and Acoustic Vector Sensors Technologies for PTZ Camera Steering and Acoustic Event Detection. , 2010, , .		7
146	Video Content Analysis in the Urban Area Telemonitoring System. Smart Innovation, Systems and Technologies, 2010, , 241-261.	0.6	8
147	Controlling Computer by Lip Gestures Employing Neural Networks. Lecture Notes in Computer Science, 2010, , 80-89.	1.3	4
148	A Framework for Automatic Detection of Abandoned Luggage in Airport Terminal. Smart Innovation, Systems and Technologies, 2010, , 13-22.	0.6	5
149	Camera Angle Invariant Shape Recognition in Surveillance Systems. Smart Innovation, Systems and Technologies, 2010, , 33-40.	0.6	5
150	Performance of Watermarking-Based DTD Algorithm under Time-Varying Echo Path Conditions. Smart Innovation, Systems and Technologies, 2010, , 69-78.	0.6	4
151	Dangerous Sound Event Recognition Using Support Vector Machine Classifiers. Advances in Intelligent and Soft Computing, 2010, , 49-57.	0.2	18
152	Binocular Vision Impairments Therapy Supported by Contactless Eye-Gaze Tracking System. Lecture Notes in Computer Science, 2010, , 373-376.	1.3	2
153	Superresolution Algorithm to Video Surveillance System. Advances in Intelligent and Soft Computing, 2010, , 105-112.	0.2	0
154	Audio Content Analysis in the Urban Area Telemonitoring System. Smart Innovation, Systems and Technologies, 2010, , 227-239.	0.6	2
155	Lip movement and gesture recognition for a multimodal human-computer interface. , 2009, , .		5
156	Computer based system for strabismus and amblyopia therapy. , 2009, , .		8
157	Surveillance Camera Tracking of Geo positioned Objects. Studies in Computational Intelligence, 2009, , 21-30.	0.9	2
158	LipMouse. , 2009, , .		1
159	Examining Kalman Filters Applied to Tracking Objects in Motion. , 2008, , .		16
160	Moving Object Detection and Tracking for the Purpose of Multimodal Surveillance System in Urban Areas. Studies in Computational Intelligence, 2008, , 75-84.	0.9	13
161	Multimedia Services Applied to Noise and Hearing Monitoring and Measuring. Studies in Computational Intelligence, 2008, , 275-295.	0.9	5
162	Musical Metadata Retrieval with Flow Graphs. Lecture Notes in Computer Science, 2004, , 691-698.	1.3	12

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163	“œl can hear” a system for universal hearing screening in school age children. Organization and first results. International Congress Series, 2003, 1240, 325-327.	0.2	3
164	Neuro-rough control of masking thresholds for audio signal enhancement. Neurocomputing, 2001, 36, 5-27.	5.9	19
165	Noise Reduction in Telecommunication Channels Using Rough Sets and Neural Networks. Lecture Notes in Computer Science, 1999, , 100-108.	1.3	1
166	Noise reduction in audio signals based on the perceptual coding approach. , 0, , .		9
167	Pawlak's flow graph extensions for video surveillance systems. , 0, , .		4