

Andrzej Czyżewski

List of Publications by Year in descending order

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Version: 2024-02-01

167
papers

967
citations

686830

13
h-index

713013

21
g-index

184
all docs

184
docs citations

184
times ranked

583
citing authors

#	ARTICLE	IF	CITATIONS
1	An audio-visual corpus for multimodal automatic speech recognition. <i>Journal of Intelligent Information Systems</i> , 2017, 49, 167-192.	2.8	54
2	Detection, classification and localization of acoustic events in the presence of background noise for acoustic surveillance of hazardous situations. <i>Multimedia Tools and Applications</i> , 2016, 75, 10407-10439.	2.6	45
3	Detection and localization of selected acoustic events in acoustic field for smart surveillance applications. <i>Multimedia Tools and Applications</i> , 2014, 68, 5-21.	2.6	34
4	Problems of Railway Noise – A Case Study. <i>International Journal of Occupational Safety and Ergonomics</i> , 2011, 17, 309-325.	1.1	25
5	Parallel implementation of background subtraction algorithms for real-time video processing on a supercomputer platform. <i>Journal of Real-Time Image Processing</i> , 2016, 11, 111-125.	2.2	25
6	Toward Robust Pedestrian Detection With Data Augmentation. <i>IEEE Access</i> , 2020, 8, 136674-136683.	2.6	21
7	A method for counting people attending large public events. <i>Multimedia Tools and Applications</i> , 2015, 74, 4289-4301.	2.6	20
8	Neuro-rough control of masking thresholds for audio signal enhancement. <i>Neurocomputing</i> , 2001, 36, 5-27.	3.5	19
9	Dangerous Sound Event Recognition Using Support Vector Machine Classifiers. <i>Advances in Intelligent and Soft Computing</i> , 2010, , 49-57.	0.2	18
10	Examining Kalman Filters Applied to Tracking Objects in Motion. , 2008, , .		16
11	Behavior Analysis and Dynamic Crowd Management in Video Surveillance System. , 2011, , .		16
12	Estimating Traffic Intensity Employing Passive Acoustic Radar and Enhanced Microwave Doppler Radar Sensor. <i>Remote Sensing</i> , 2020, 12, 110.	1.8	16
13	Vehicle Classification Based on Soft Computing Algorithms. <i>Lecture Notes in Computer Science</i> , 2010, , 70-79.	1.0	15
14	Reversible video stream anonymization for video surveillance systems based on pixels relocation and watermarking. , 2011, , .		15
15	Online urban acoustic noise monitoring system. <i>Noise Control Engineering Journal</i> , 2012, 60, 69-84.	0.2	15
16	A comparative study of English viseme recognition methods and algorithms. <i>Multimedia Tools and Applications</i> , 2018, 77, 16495-16532.	2.6	15
17	Fluctuation-enhanced scent sensing using a single gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 85-91.	4.0	14
18	Gaze-tracking-based audio-visual correlation analysis employing quality of experience methodology. <i>Intelligent Decision Technologies</i> , 2010, 4, 217-227.	0.6	13

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19	Visual lip contour detection for the purpose of speech recognition. , 2014, , .		13
20	Acceleration of decision making in sound event recognition employing supercomputing cluster. Information Sciences, 2014, 285, 223-236.	4.0	13
21	An Automated Method for Biometric Handwritten Signature Authentication Employing Neural Networks. Electronics (Switzerland), 2021, 10, 456.	1.8	13
22	Moving Object Detection and Tracking for the Purpose of Multimodal Surveillance System in Urban Areas. Studies in Computational Intelligence, 2008, , 75-84.	0.7	13
23	Application of Vector Sensors to Acoustic Surveillance of a Public Interior Space. Archives of Acoustics, 2011, 36, .	0.9	12
24	Human Computer Interface for Tracking Eye Movements Improves Assessment and Diagnosis of Patients With Acquired Brain Injuries. Frontiers in Neurology, 2019, 10, 6.	1.1	12
25	System for monitoring road slippery based on CCTV cameras and convolutional neural networks. Journal of Intelligent Information Systems, 2020, 55, 521-534.	2.8	12
26	Musical Metadata Retrieval with Flow Graphs. Lecture Notes in Computer Science, 2004, , 691-698.	1.0	12
27	Machine Learningâ€‘based Analysis of English Lateral Allophones. International Journal of Applied Mathematics and Computer Science, 2019, 29, 393-405.	1.5	12
28	Analysis of results of largeâ€‘scale multimodal biometric identity verification experiment. IET Biometrics, 2019, 8, 92-100.	1.6	11
29	Creating Dynamic Maps of Noise Threat Using PL-Grid Infrastructure. Archives of Acoustics, 2013, 38, 235-242.	0.9	10
30	Noise reduction in audio signals based on the perceptual coding approach. , 0, , .		9
31	3D Acoustic Field Intensity Probe Design and Measurements. Archives of Acoustics, 2016, 41, 701-711.	0.9	9
32	Creating Acoustic Maps Employing Supercomputing Cluster. Archives of Acoustics, 2011, 36, .	0.9	9
33	Computer based system for strabismus and amblyopia therapy. , 2009, , .		8
34	New approach to railway noise modeling employing Genetic Algorithms. Applied Acoustics, 2011, 72, 611-622.	1.7	8
35	Employing flowgraphs for forward route reconstruction in video surveillance system. Journal of Intelligent Information Systems, 2014, 43, 521-535.	2.8	8
36	Processing of acoustical data in a multimodal bank operating room surveillance system. Multimedia Tools and Applications, 2016, 75, 10787-10805.	2.6	8

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37	Validating data acquired with experimental multimodal biometric system installed in bank branches. Journal of Intelligent Information Systems, 2019, 52, 1-31.	2.8	8
38	Evaluation of aspiration problems in L2 English pronunciation employing machine learning. Journal of the Acoustical Society of America, 2021, 150, 120-132.	0.5	8
39	Video Content Analysis in the Urban Area Telemonitoring System. Smart Innovation, Systems and Technologies, 2010, , 241-261.	0.5	8
40	Detection and Localization of Selected Acoustic Events in 3D Acoustic Field for Smart Surveillance Applications. Communications in Computer and Information Science, 2011, , 55-63.	0.4	8
41	Evaluation of Decision Fusion Methods for Multimodal Biometrics in the Banking Application. Sensors, 2022, 22, 2356.	2.1	8
42	Gaze-tracking and Acoustic Vector Sensors Technologies for PTZ Camera Steering and Acoustic Event Detection. , 2010, , .		7
43	Methods of Improving Speech Intelligibility for Listeners with Hearing Resolution Deficit. Diagnostic Pathology, 2012, 7, 129.	0.9	7
44	AWARENESS EVALUATION OF PATIENTS IN VEGETATIVE STATE EMPLOYING EYE-GAZE TRACKING SYSTEM. International Journal on Artificial Intelligence Tools, 2012, 21, 1240007.	0.7	7
45	Evaluation of Face Detection Algorithms for the Bank Client Identity Verification. Foundations of Computing and Decision Sciences, 2017, 42, 137-148.	0.5	7
46	Long-Term Comparative Evaluation of Acoustic Climate in Selected Schools Before and After Acoustic Treatment. Archives of Acoustics, 2010, 35, 551-564.	0.9	6
47	Visual object tracking system employing fixed and PTZ cameras. Intelligent Decision Technologies, 2011, 5, 177-188.	0.6	6
48	Adaptive Method of Adjusting Flowgraph for Route Reconstruction in Video Surveillance Systems. Fundamenta Informatiae, 2013, 127, 561-576.	0.3	6
49	A handwritten signature verification method employing a tablet. , 2016, , .		6
50	Comparison of Classification Methods for EEG Signals of Real and Imaginary Motion. Intelligent Systems Reference Library, 2018, , 227-239.	1.0	6
51	Vehicle Detection with Self-Training for Adaptive Video Processing Embedded Platform. Applied Sciences (Switzerland), 2020, 10, 5763.	1.3	6
52	CyberEye: New Eye-Tracking Interfaces for Assessment and Modulation of Cognitive Functions beyond the Brain. Sensors, 2021, 21, 7605.	2.1	6
53	Lip movement and gesture recognition for a multimodal human-computer interface. , 2009, , .		5
54	Smart Pen – new multimodal computer control tool for graphomotorical therapy. Intelligent Decision Technologies, 2010, 4, 197-209.	0.6	5

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55	Massive surveillance data processing with supercomputing cluster. Information Sciences, 2015, 296, 322-344.	4.0	5
56	Analysis of impact of audio modifications on the robustness of watermark for non-blind architecture. Multimedia Tools and Applications, 2015, 74, 4415-4435.	2.6	5
57	Improving listeners' experience for movie playback through enhancing dialogue clarity in soundtracks. , 2016, 48, 40-49.		5
58	Development of Intelligent Road Signs with V2X Interface for Adaptive Traffic Controlling. , 2019, , .		5
59	Style Transfer for Detecting Vehicles with Thermal Camera. , 2019, , .		5
60	Face Profile View Retrieval Using Time of Flight Camera Image Analysis. Lecture Notes in Computer Science, 2015, , 159-168.	1.0	5
61	Multimedia Services Applied to Noise and Hearing Monitoring and Measuring. Studies in Computational Intelligence, 2008, , 275-295.	0.7	5
62	A Framework for Automatic Detection of Abandoned Luggage in Airport Terminal. Smart Innovation, Systems and Technologies, 2010, , 13-22.	0.5	5
63	Camera Angle Invariant Shape Recognition in Surveillance Systems. Smart Innovation, Systems and Technologies, 2010, , 33-40.	0.5	5
64	Reduction of parasitic pitch variations in archival musical recordings. Signal Processing, 2010, 90, 981-990.	2.1	4
65	Distributed System for Noise Threat Evaluation Based on Psychoacoustic Measurements. Metrology and Measurement Systems, 2012, 19, .	1.4	4
66	Virtual Whiteboard: A gesture-controlled pen-free tool emulating school whiteboard. Intelligent Decision Technologies, 2012, 6, 161-169.	0.6	4
67	Intelligent video and audio applications for learning enhancement. Journal of Intelligent Information Systems, 2012, 38, 555-574.	2.8	4
68	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.	0.3	4
69	Pawlak's flow graph extensions for video surveillance systems. , 0, , .		4
70	Face detection algorithms evaluation for the bank client verification. , 2016, , .		4
71	Pilot testing of developed multimodal biometric identity verification system. , 2017, , .		4
72	Speech Analytics Based on Machine Learning. Intelligent Systems Reference Library, 2019, , 129-157.	1.0	4

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73	Variable length sliding models for banking clients face biometry. Multimedia Tools and Applications, 2019, 78, 7749-7766.	2.6	4
74	Database of speech and facial expressions recorded with optimized face motion capture settings. Journal of Intelligent Information Systems, 2019, 53, 381-404.	2.8	4
75	Comparative study on the effectiveness of various types of road traffic intensity detectors. , 2019, , .		4
76	Mining Knowledge of Respiratory Rate Quantification and Abnormal Pattern Prediction. Cognitive Computation, 2021, , 1-21.	3.6	4
77	Closer Look at the Uncertainty Estimation in Semantic Segmentation under Distributional Shift. , 2021, , .		4
78	The Project IDENT: Multimodal Biometric System for Bank Client Identity Verification. Communications in Computer and Information Science, 2017, , 16-32.	0.4	4
79	Traffic Noise Analysis Applied to Automatic Vehicle Counting and Classification. Communications in Computer and Information Science, 2017, , 110-123.	0.4	4
80	Controlling Computer by Lip Gestures Employing Neural Networks. Lecture Notes in Computer Science, 2010, , 80-89.	1.0	4
81	Performance of Watermarking-Based DTD Algorithm under Time-Varying Echo Path Conditions. Smart Innovation, Systems and Technologies, 2010, , 69-78.	0.5	4
82	Camera Sabotage Detection for Surveillance Systems. Lecture Notes in Computer Science, 2012, , 45-53.	1.0	4
83	âœœ can hearâœœ a system for universal hearing screening in school age children. Organization and first results. International Congress Series, 2003, 1240, 325-327.	0.2	3
84	Scent Emitting Multimodal Computer Interface for Learning Enhancement. , 2010, , .		3
85	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.	0.4	3
86	Enhanced voice user interface employing spatial filtration of signals from acoustic vector sensor. , 2015, , .		3
87	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
88	Adaptive Personal Tuning of Sound in Mobile Computers. AES: Journal of the Audio Engineering Society, 2016, 64, 405-428.	0.8	3
89	Multimodal approach for polysensory stimulation and diagnosis of subjects with severe communication disorders. Procedia Computer Science, 2017, 121, 238-243.	1.2	3
90	Vehicle detector training with labels derived from background subtraction algorithms in video surveillance. , 2018, , .		3

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91	Multifactor consciousness level assessment of participants with acquired brain injuries employing human-computer interfaces. <i>BioMedical Engineering OnLine</i> , 2020, 19, 2.	1.3	3
92	Handwritten Signature Verification System Employing Wireless Biometric Pen. <i>Studies in Big Data</i> , 2019, , 307-319.	0.8	3
93	A System for Acoustic Field Measurement Employing Cartesian Robot. <i>Metrology and Measurement Systems</i> , 2016, 23, 333-343.	1.4	3
94	Online Sound Restoration for Digital Library Applications. <i>Studies in Computational Intelligence</i> , 2012, , 227-242.	0.7	3
95	Multimodal Human-Computer Interfaces Based on Advanced Video and Audio Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 87-102.	0.5	3
96	Multimodal Audio-Visual Recognition of Traffic Events. , 2011, , .		2
97	Improved method for real-time speech stretching. <i>Intelligent Decision Technologies</i> , 2012, 6, 177-185.	0.6	2
98	Selection of Visual Descriptors for the Purpose of Multi-camera Object Re-identification. <i>Studies in Computational Intelligence</i> , 2015, , 263-303.	0.7	2
99	Comparison of acoustic and visual voice activity detection for noisy speech recognition. , 2016, , .		2
100	A Study in Experimental Methods of Human-Computer Communication for Patients After Severe Brain Injuries. <i>Lecture Notes in Computer Science</i> , 2016, , 689-703.	1.0	2
101	Multimedia polysensory integration training system dedicated to children with educational difficulties. <i>Journal of Intelligent Information Systems</i> , 2016, 47, 531-552.	2.8	2
102	Complexity analysis of the Pawlak's flowgraph extension for re-identification in multi-camera surveillance system. <i>Multimedia Tools and Applications</i> , 2016, 75, 10495-10511.	2.6	2
103	Road surface roughness estimation employing integrated position and acceleration sensor. , 2017, , .		2
104	Post-comatose patients with minimal consciousness tend to preserve reading comprehension skills but neglect syntax and spelling. <i>Scientific Reports</i> , 2019, 9, 19929.	1.6	2
105	Robustness in Compressed Neural Networks for Object Detection. , 2021, , .		2
106	Comparison of Methods for Real and Imaginary Motion Classification from EEG Signals. <i>Studies in Big Data</i> , 2019, , 247-257.	0.8	2
107	Visual Objects Description for Their Re-identification in Multi-Camera Systems. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 45-54.	0.5	2
108	Audio-Visual Surveillance System for Application in Bank Operating Room. <i>Communications in Computer and Information Science</i> , 2013, , 107-120.	0.4	2

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109	Performance Analysis of Developed Multimodal Biometric Identity Verification System. Elektronika, 2018, 1, 37-44.	0.0	2
110	Surveillance Camera Tracking of Geo positioned Objects. Studies in Computational Intelligence, 2009, , 21-30.	0.7	2
111	Binocular Vision Impairments Therapy Supported by Contactless Eye-Gaze Tracking System. Lecture Notes in Computer Science, 2010, , 373-376.	1.0	2
112	Audio Content Analysis in the Urban Area Telemonitoring System. Smart Innovation, Systems and Technologies, 2010, , 227-239.	0.5	2
113	Low-Level Music Feature Vectors Embedded as Watermarks. Studies in Computational Intelligence, 2013, , 453-473.	0.7	2
114	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.	0.4	2
115	Selection of Features for Multimodal Vocalic Segments Classification. Lecture Notes in Computer Science, 2019, , 490-500.	1.0	2
116	Automatic labeling of traffic sound recordings using autoencoder-derived features. , 2019, , .		2
117	Remote Health Monitoring of Wind Turbines Employing Vibroacoustic Transducers and Autoencoders. Frontiers in Energy Research, 2022, 10, .	1.2	2
118	Robust Object Detection with Multi-input Multi-output Faster R-CNN. Lecture Notes in Computer Science, 2022, , 572-583.	1.0	2
119	Examining Impact of Speed Recommendation Algorithm Operating in Autonomous Road Signs on Minimum Distance between Vehicles. Remote Sensing, 2022, 14, 2803.	1.8	2
120	Noise Reduction in Telecommunication Channels Using Rough Sets and Neural Networks. Lecture Notes in Computer Science, 1999, , 100-108.	1.0	1
121	Multimodal human-computer interfaces based on advanced video and audio analysis. , 2013, , .		1
122	Language material for English audiovisual speech recognition system development. Proceedings of Meetings on Acoustics, 2014, , .	0.3	1
123	Online sound restoration system for digital library applications. Proceedings of Meetings on Acoustics, 2014, , .	0.3	1
124	Application of fast cameras to string vibrations recording. , 2015, , .		1
125	Knowledge representation of motor activity of patients with Parkinsonâ€™s disease. Natural Computing, 2015, 14, 579-591.	1.8	1
126	Video analytics-based algorithm for monitoring egress from buildings. Multimedia Tools and Applications, 2016, 75, 10733-10743.	2.6	1

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127	An application of acoustic sensors for the monitoring of road traffic. , 2018, , .		1
128	Vocalic Segments Classification Assisted by Mouth Motion Capture. , 2018, , .		1
129	Objectivization of Phonological Evaluation of Speech Elements by Means of Audio Parametrization. , 2018, , .		1
130	Comparison of the effectiveness of automatic EEG signal class separation algorithms. Journal of Intelligent and Fuzzy Systems, 2019, 37, 7537-7543.	0.8	1
131	Method for Clustering of Brain Activity Data Derived from EEG Signals. Fundamenta Informaticae, 2019, 168, 249-268.	0.3	1
132	Adjusting automatically marked voiced English allophone borders. , 2019, , .		1
133	Automatic Clustering of EEG-Based Data Associated with Brain Activity. Lecture Notes in Computer Science, 2019, , 470-479.	1.0	1
134	Adaptive Method for Modeling of Temporal Dependencies between Fields of Vision in Multi-Camera Surveillance Systems. Electronics (Switzerland), 2021, 10, 1303.	1.8	1
135	Computer-Supported Polysensory Integration Technology for Educationally Handicapped Pupils. Lecture Notes in Computer Science, 2014, , 224-233.	1.0	1
136	Intelligent Multimedia Solutions Supporting Special Education Needs. Lecture Notes in Computer Science, 2011, , 1-15.	1.0	1
137	Frequently updated noise threat maps created with use of supercomputing grid. Noise Mapping, 2014, 1, .	0.7	1
138	LipMouse. , 2009, , .		1
139	Application of Virtual Gate for Counting People Participating in Large Public Events. Communications in Computer and Information Science, 2012, , 316-327.	0.4	1
140	Intelligent Control of Spectral Subtraction Algorithm for Noise Removal from Audio. Studies in Computational Intelligence, 2013, , 475-488.	0.7	1
141	Modelling Object Behaviour in a Video Surveillance System Using Pawlak's Flowgraph. Communications in Computer and Information Science, 2014, , 122-136.	0.4	1
142	Multimodal System for Diagnosis and Polysensory Stimulation of Subjects with Communication Disorders. Lecture Notes in Computer Science, 2017, , 47-56.	1.0	1
143	Visual and auditory attention stimulator for assisting pedagogical therapy. , 2015, , .		0
144	Rough Set Based Modeling and Visualization of the Acoustic Field Around the Human Head. Lecture Notes in Computer Science, 2015, , 418-427.	1.0	0

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145	Methodology and technology for the polymodal allophonic speech transcription. Proceedings of Meetings on Acoustics, 2016, , .	0.3	0
146	Comparison of selected electroencephalographic signal classification methods. , 2017, , .		0
147	Employing economical methods for pavement defects estimation. MATEC Web of Conferences, 2018, 231, 01016.	0.1	0
148	Visual perception of vowels from static and dynamic cues. Journal of the Acoustical Society of America, 2018, 143, EL328-EL332.	0.5	0
149	Superresolution Algorithm to Video Surveillance System. Advances in Intelligent and Soft Computing, 2010, , 105-112.	0.2	0
150	Multimedia Interface Using Head Movements Tracking. Advances in Intelligent and Soft Computing, 2011, , 41-47.	0.2	0
151	Human Tracking in Multi-camera Visual Surveillance System. Communications in Computer and Information Science, 2011, , 277-285.	0.4	0
152	System Supporting Speech Perception in Special Educational Needs Schoolchildren. Lecture Notes in Computer Science, 2012, , 133-136.	1.0	0
153	Cartographic Representation of Route Reconstruction Results in Video Surveillance System. Advances in Intelligent Systems and Computing, 2013, , 35-44.	0.5	0
154	Video Analytics-Based Algorithm for Monitoring Egress from Buildings. Communications in Computer and Information Science, 2013, , 224-232.	0.4	0
155	Development of Domain-Specific Solutions Within the Polish Infrastructure for Advanced Scientific Research. Lecture Notes in Computer Science, 2014, , 237-250.	1.0	0
156	Supercomputing Grid-Based Services for Hearing Protection and Acoustical Urban Planning, Research and Education. Lecture Notes in Computer Science, 2014, , 263-277.	1.0	0
157	Eye-Gaze Tracking-Based Telepresence System for Videoconferencing. Lecture Notes in Computer Science, 2014, , 432-441.	1.0	0
158	Examining Quality of Hand Segmentation Based on Gaussian Mixture Models. Communications in Computer and Information Science, 2014, , 111-121.	0.4	0
159	Survey on Applications of Multimedia Technology to Examine Impact of Roadside Advertising on Drivers. Communications in Computer and Information Science, 2015, , 141-155.	0.4	0
160	Multimodal Attention Stimulator. Lecture Notes in Computer Science, 2016, , 568-571.	1.0	0
161	A Method of Object Re-identification Applicable to Multicamera Surveillance Systems. Communications in Computer and Information Science, 2017, , 98-109.	0.4	0
162	Assessment of Therapeutic Progress After Acquired Brain Injury Employing Electroencephalography and Autoencoder Neural Networks. Advances in Intelligent Systems and Computing, 2019, , 961-967.	0.5	0

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163	Modelling of Objects Behaviour for Their Re-identification in Multi-camera Surveillance System Employing Particle Filters and Flow Graphs. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 79-86.	0.5	0
164	Audio Feature Analysis for Precise Vocalic Segments Classification in English. <i>Communications in Computer and Information Science</i> , 2020, , 265-277.	0.4	0
165	Evaluating Calibration and Robustness of Pedestrian Detectors. <i>Communications in Computer and Information Science</i> , 2020, , 98-111.	0.4	0
166	Automatic Marking of Allophone Boundaries in Isolated English Spoken Words. <i>Lecture Notes in Computer Science</i> , 2020, , 51-62.	1.0	0
167	Comparing Traffic Intensity Estimates Employing Passive Acoustic Radar and Microwave Doppler Radar Sensor. <i>Proceedings of Meetings on Acoustics</i> , 2020, , .	0.3	0