Jozef Juhar

List of Publications by Year
in descending order

101 papers	628 citations	840776 11 h-index	888059 17 g-index
103 all docs	103 docs citations	103 times ranked	357 citing authors

#	Article	IF	Citations
1	Facial Expression Emotion Detection for Real-Time Embedded Systems. Technologies, 2018, 6, 17.	5.1	43
2	Feature selection for acoustic events detection. Multimedia Tools and Applications, 2015, 74, 4213-4233.	3.9	23
3	Accessible Electroencephalograms (EEGs): A Comparative Review with OpenBCIâ€™s Ultracortex Mark IV Headset. , 2019, , .		19
4	Efficient acoustic detector of gunshots and glass breaking. Multimedia Tools and Applications, 2016, 75, 10441-10469.	3.9	18
5	Service Robot SCORPIO with Robust Speech Interface. International Journal of Advanced Robotic Systems, 2013, 10, 3.	2.1	17
6	Implementing English speech interface to Jaguar robot for SWAT training. , 2017, , .		15
7	Real-time emotional state detection from facial expression on embedded devices. , 2017, , .		15
8	A Study of Acoustic Features for Emotional Speaker Recognition in I-Vector Representation. Acta Electrotechnica Et Informatica, 2015, 15, 15-20.	0.3	15
9	Voice command recognition using EEG signals. , 2017, , .		14
10	Comparison of Different Feature Types for Acoustic Event Detection System. Communications in Computer and Information Science, 2013, , 288-297.	0.5	14
11	Gun type recognition from gunshot audio recordings. , 2015, , .		13
12	Learning string distance with smoothing for OCR spelling correction. Multimedia Tools and Applications, 2017, 76, 24549-24567.	3.9	13
13	Slovak Automatic Dictation System for Judicial Domain. Lecture Notes in Computer Science, 2014, , 16-27.	1.3	13
14	Joint Signal Parameter Estimation in Nonâ€"Gaussian Noise by the Method of Polynomial Maximization. Journal of Electrical Engineering, 2016, 67, 217-221.	0.7	12
15	Improving static audio keystroke analysis by score fusion of acoustic and timing data. Multimedia Tools and Applications, 2017, 76, 25749-25766.	3.9	12
16	Broadcast news audio classification using SVM binary trees. , 2012, , .		11
17	Multimodal dialogue system with NAO and VoiceXML dialogue manager. , 2017, , .		11
18	Weighted fast sequential DTW for multilingual audio Query-by-Example retrieval. Journal of Intelligent Information Systems, 2018, 51, 439-455.	3.9	11

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19	Pediatric Speech Audiometry Web Application for Hearing Detection in the Home Environment. Electronics (Switzerland), 2020, 9, 994.	3.1	11
20	Formosa Speech in the Wild Corpus for Improving Taiwanese Mandarin Speech-Enabled Human-Computer Interaction. Journal of Signal Processing Systems, 2020, 92, 853-873.	2.1	10
21	A Novel Approach to EEG Speech Activity Detection with Visual Stimuli and Mobile BCI. Applied Sciences (Switzerland), 2021, 11, 674.	2.5	10
22	Acoustic Events Detection Using MFCC and MPEG-7 Descriptors. Communications in Computer and Information Science, 2011, , 191-197.	0.5	10
23	Classification of heterogeneous text data for robust domain-specific language modeling. Eurasip Journal on Audio, Speech, and Music Processing, 2014, 2014, .	2.1	9
24	Emotion recognition in i-vector space. , 2016, , .		9
25	Case Study on Human-Robot Interaction of the Remote-Controlled Service Robot for Elderly and Disabled Care. Computing and Informatics, 2019, 38, 1210-1236.	0.7	9
26	Development of slovak GALAXY/voiceXML based spoken language dialogue system to retrieve information from the internet. , 0, , .		9
27	Hypothesis combination for Slovak dictation speech recognition. , 2014, , .		8
28	A training tool for speech driven human-robot interaction applications. , 2017, , .		8
29	Slovak Broadcast News Speech Recognition and Transcription System. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 385-394.	0.7	8
30	Using current biometrics technologies for authentication in e-learning assessment. , 2016, , .		7
31	Using HMD for Immersive Training of Voice-Based Operation of Small Unmanned Ground Vehicles. Lecture Notes in Computer Science, 2019, , 34-46.	1.3	7
32	HIDDEN MARKOV MODEL BASED SPEECH SYNTHESIS SYSTEM IN SLOVAK LANGUAGE WITH SPEAKER INTERPOLATION. Acta Electrotechnica Et Informatica, 2015, 15, 8-12.	0.3	7
33	Comparison of feature selection algorithms for acoustic event detection system. , 2014, , .		6
34	Unsupervised acoustic corpora building based on variable confidence measure thresholding. , 2016, , .		6
35	Performance of Basic Spectral Descriptors and MRMR Algorithm to the Detection of Acoustic Events. Communications in Computer and Information Science, 2012, , 350-359.	0.5	6
36	Unsupervised Spelling Correction for Slovak. Advances in Electrical and Electronic Engineering, 2013, 11, .	0.3	6

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37	Acoustical User Identification Based on MFCC Analysis of Keystrokes. Advances in Electrical and Electronic Engineering, 2015, 13, .	0.3	6
38	Building of Broadcast News Database for Evaluation of the Automated Subtitling Service. Communications - Scientific Letters of the University of Zilina, 2013, 15, 124-128.	0.6	6
39	Formosa Speech Recognition Challenge 2018: Data, Plan and Baselines. , 2018, , .		5
40	Anticipation in speech-based human-machine interfaces. , 2018, , .		5
41	Novice User Experiences with a Voice-Enabled Human-Robot Interaction Tool. , 2019, , .		5
42	Classification of Broadcast News Audio Data Employing Binary Decision Architecture. Computing and Informatics, 2017, 36, 857-886.	0.7	5
43	Crosslingual and bilingual speech recognition with Slovak and Czech speechdat-e databases. , 0, , .		5
44	Slovak Language Model from Internet Text Data. Lecture Notes in Computer Science, 2011, , 340-346.	1.3	5
45	Advances in the Slovak Judicial Domain Dictation System. Lecture Notes in Computer Science, 2016, , 55-67.	1.3	5
46	Recent advances in the statistical modeling of the Slovak language. , 2014, , .		4
47	Distance-based dialog acts labeling. , 2015, , .		4
48	Query-by-example retrieval via fast sequential dynamic time warping algorithm. , 2015, , .		4
49	Automatic Acoustic Speech segmentation in Praat using cloud based ASR. , 2015, , .		4
50	Automatic dialogue acts classification in Slovak dialogues. , 2015, , .		4
51	Speaker adaptation for Slovak statistical parametric speech synthesis based on hidden Markov models. , 2015, , .		4
52	Unsupervised speech transcription and alignment based on two complementary ASR systems. , 2016, , .		4
53	Speech interface dialog with smart glasses. , 2017, , .		4
54	The Role of Hearing Screening Using an Audiometry Application in the Education of Children with Hearing Impairment. , 2020, , .		4

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55	Audio classification utilizing a rule-based approach and the support vector machine classifier. , 2013, , .		3
56	Modified estimation of between-class covariance matrix in linear discriminant analysis of speech. , 2013, , .		3
57	Semantic roles labeling system for Slovak sentences. , 2014, , .		3
58	Interface for smart audiovisual data archive. , 2015, , .		3
59	Adding filled pauses and disfluent events into language models for speech recognition. , 2016, , .		3
60	Speech corpus generation based on N-gram confidence measure classification. , 2017, , .		3
61	Semantic indexing and document retrieval for personalized language modeling. , 2017, , .		3
62	Implementation of a Speech Enabled Virtual Reality Training Tool for Human-Robot Interaction. , 2018, , .		3
63	Towards robot-assisted children speech audiometry. , 2019, , .		3
64	Language Model Speaker Adaptation for Transcription of Slovak Parliament Proceedings. Lecture Notes in Computer Science, 2015, , 259-267.	1.3	3
65	Extracting Sentence Elements for the Natural Language Understanding Based on Slovak National Corpus. Lecture Notes in Computer Science, 2011, , 171-177.	1.3	3
66	EAR-TUKE: The Acoustic Event Detection System. Communications in Computer and Information Science, 2014, , 137-148.	0.5	3
67	Optimalization of GMM for Text Independent Speaker Verification System. , 2008, , .		2
68	Rule-Based Morphological Tagger forÂanÂInflectional Language. Lecture Notes in Computer Science, 2012, , 208-215.	1.3	2
69	Linear Feature Transformations in Slovak Phoneme-Based Continuous Speech Recognition. , 0, , .		2
70	Design of phonetically balanced SUS test for evaluation of Slovak TTS systems. , 2014, , .		2
71	SIMONA â€" the Slovak embodied conversational agent. Intelligent Decision Technologies, 2014, 8, 277-288.	0.9	2
72	Best feature selection for emotional speaker verification in i-vector representation. , 2015, , .		2

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73	Towards Slovak-English-Mandarin Speech Recognition Using Deep Learning. , 2018, , .		2
74	An Overview of BCI-Based Speech Recognition Methods. , 2018, , .		2
75	Diacritics Restoration in the Slovak Texts Using Hidden Markov Model. Lecture Notes in Computer Science, 2016, , 29-40.	1.3	2
76	Comparison of Grapheme and Phoneme Based Acoustic Modeling in LVCSR Task in Slovak. Lecture Notes in Computer Science, 2009, , 242-247.	1.3	2
77	Comparison of Slovak and Czech speech recognition based on grapheme and phoneme acoustic models. , 0, , .		2
78	Towards Annotation of Nonverbal Vocal Gestures in Slovak. Lecture Notes in Computer Science, 2008, , 255-265.	1.3	2
79	Towards Slovak Broadcast News Automatic Recording and Transcribing Service. Lecture Notes in Computer Science, 2008, , 158-168.	1.3	2
80	Automated Covid-19 Respiratory Symptoms Analysis from Speech and Cough. , 2022, , .		2
81	Improved class definition in two dimensional linear discriminant analysis of speech. , 2015, , .		1
82	Towards human-machine dialog in Slovak. , 2016, , .		1
83	Gated Module Neural Network for Multilingual Speech Recognition. , 2018, , .		1
84	VoMIS - the VoiceXML-Based Multimodal Interactive System for NAO Robot. , 2018, , .		1
85	Computer simulation of signal detection in non-Gaussian noise with the Neyman-Pearson moment quality criterion. , 2018, , .		1
86	Spoken Dialogue-based Remote Control of Educational Mobile Robot with Mecanum Wheels. , 2019, , .		1
87	Simulation of 5G and LTE-A Access Technologies Via Network Simulator NS-3. , 2021, , .		1
88	Event-Based Dialogue Manager for Multimodal Systems. Advances in Intelligent Systems and Computing, 2015, , 227-235.	0.6	1
89	Comparison of Diarization Tools for Building Speaker Database. Advances in Electrical and Electronic Engineering, 2015, 13, .	0.3	1
90	Evaluation of the Slovak Spoken Dialogue System BasedÂonÂITU-T. Lecture Notes in Computer Science, 2008, , 633-640.	1.3	1

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91	MOBILTEL - Mobile Multimodal Telecommunications Systems and Services. , 2007, , .		0
92	Evaluation of advanced language modeling techniques for the Slovak LVCSR. , 2015, , .		0
93	MAPL - microphone array processing library. , 2016, , .		0
94	Fuzzy clustering in HMM-based triphone classes of 2DLDA in Slovak LVCSR. , 2016, , .		0
95	Dual-Space Re-ranking Model for Efficient Document Retrieval, User Modeling and Adaptation. , 2018, , .		0
96	Non-native vs Native English Speakers User Experience in HMD vs Desktop Immersive Training. , 2020, , .		0
97	Phoneme Based ASR System for Slovak SpeechDat Database. Lecture Notes in Computer Science, 2001, , 237-241.	1.3	0
98	Slovak Web Discussion Corpus. Lecture Notes in Computer Science, 2014, , 463-469.	1.3	0
99	The Influence of Adaptation Database Size on the Quality of HMM-based Synthetic Voice Based on the Large Average Voice Model. Smart Innovation, Systems and Technologies, 2016, , 127-136.	0.6	0
100	Modeling of Filled Pauses and Prolongations to Improve Slovak Spontaneous Speech Recognition. Topics in Intelligent Engineering and Informatics, 2019, , 153-176.	0.4	0
101	Overlapping speech analysis in Slovak conversational interactions. , 2022, , .		0