Etienne Barnard

List of Publications by Year
in descending order

61 papers	1,913 citations	516710 16 h-index	302126 39 g-index
64 all docs	64 docs citations	64 times ranked	1108 citing authors

#	Article	IF	Citations
1	DNNs as Layers of Cooperating Classifiers. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 3725-3732.	4.9	3
2	Benign interpolation of noise in deep learning. South African Computer Journal, 2020, 32, .	0.2	1
3	Unsupervised acoustic model training: Comparing South African English and isiZulu. , 2015, , .		2
4	Efficient data selection for ASR. Language Resources and Evaluation, 2015, 49, 327-353.	2.7	4
5	Language independent search in MediaEval's Spoken Web Search task. Computer Speech and Language, 2014, 28, 1066-1082.	4.3	30
6	A smartphone-based ASR data collection tool for under-resourced languages. Speech Communication, 2014, 56, 119-131.	2.8	60
7	Predicting utterance pitch targets in YorÃ¹bÃ¡ for tone realisation in speech synthesis. Speech Communication, 2014, 56, 229-242.	2.8	8
8	Automatic speech recognition for under-resourced languages: A survey. Speech Communication, 2014, 56, 85-100.	2.8	320
9	Consequences of deploying culturally inclined earcons in speech technology design for oral users in South Africa. , 2013, , .		0
10	The spoken web search task at MediaEval 2012. , 2013, , .		30
11	A voice service for user feedback on school meals. , 2012, , .		16
12	Wolof Speech Recognition Model of Digits and Limited-Vocabulary Based on HMM and ToolKit. , 2012, , .		3
13	Factors that affect the accuracy of text-based language identification. Computer Speech and Language, 2012, 26, 307-320.	4.3	29
14	Collecting and evaluating speech recognition corpora for 11 South African languages. Language Resources and Evaluation, 2011, 45, 289-309.	2.7	36
15	The Lwazi community communication service. , 2011, , .		6
16	Determination and the No-Free-Lunch Paradox. Neural Computation, 2011, 23, 1899-1909.	2.2	3
17	Efficiency measurements in IVR systems for oral users. , 2011, , .		1
18	Realisation of two adjacent high tones: Acoustic evidence from Northern Sotho. Southern African Linguistics and Applied Language Studies, 2010, 28, 101-121.	0.5	2

#	Article	IF	Citations
19	Combining regression and classification methods for improving automatic speaker age recognition. , 2010, , .		21
20	Continuous speech recognition with sparse coding. Computer Speech and Language, 2009, 23, 200-219.	4.3	17
21	HIV health information access using spoken dialogue systems: Touchtone vs. speech. , 2009, , .		18
22	Multilingual speaker age recognition: Regression analyses on the Lwazi corpus. , 2009, , .		9
23	Realisations of a single high tone in Northern Sotho. Southern African Linguistics and Applied Language Studies, 2009, 27, 357-380.	0.5	3
24	Pronunciation prediction with Default&Refine. Computer Speech and Language, 2008, 22, 374-393.	4.3	36
25	The utility of spoken dialog systems. , 2008, , .		4
26	Vowel variation in Southern Sotho: an acoustic investigation. Southern African Linguistics and Applied Language Studies, 2008, 26, 255-265.	0.5	7
27	Phonetics of intonation in South African Bantu languages. Southern African Linguistics and Applied Language Studies, 2008, 26, 235-254.	0.5	11
28	Applying Topic Modeling to Forensic Data. International Federation for Information Processing, 2008, , 115-126.	0.4	4
29	Openphone User Engagement and Requirements Solicitation in Low Literacy Users. International Federation for Information Processing, 2008, , 189-193.	0.4	0
30	A Fast Histogram-Based Postprocessor That Improves Posterior Probability Estimates. Neural Computation, 1999, 11, 1235-1248.	2.2	7
31	Toward new language adaptation for language identification. Speech Communication, 1997, 21, 245-254.	2.8	4
32	Feature-based classification of aerospace radar targets using neural networks. Neural Networks, 1996, 9, 129-142.	5.9	17
33	Development of an approach to automatic language identification based on phone recognition. Computer Speech and Language, 1996, 10, 37-54.	4.3	18
34	Process modeling with the regression network. IEEE Transactions on Neural Networks, 1995, 6, 78-93.	4.2	3
35	A comparative study of optimization techniques for backpropagation. Neurocomputing, 1994, 6, 19-30.	5.9	12
36	Reviewing automatic language identification. IEEE Signal Processing Magazine, 1994, 11, 33-41.	5.6	190

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37	A model for nonpolynomial decrease in error rate with increasing sample size. IEEE Transactions on Neural Networks, 1994, 5, 994-997.	4.2	2
38	The estimation of kinematic viscosity of petroleum crude oils and fractions with a neural net. The Chemical Engineering Journal, 1993, 51, 151-158.	0.3	8
39	Related approaches to gradient-based thresholding. Pattern Recognition Letters, 1993, 14, 567-572.	4.2	28
40	The dynamic modelling of ill-defined processing operations using connectionist networks. Chemical Engineering Science, 1993, 48, 1945-1958.	3.8	10
41	Backpropagation neural nets with one and two hidden layers. IEEE Transactions on Neural Networks, 1993, 4, 136-141.	4.2	260
42	Neural nets for the simulation of mineral processing operations: Part II. Applications. Minerals Engineering, 1993, 6, 1135-1153.	4.3	7
43	Neural nets for the simulation of mineral processing operations: Part I. Theoretical principles. Minerals Engineering, 1993, 6, 1127-1134.	4.3	8
44	Backpropagation uses prior information efficiently. IEEE Transactions on Neural Networks, 1993, 4, 794-802.	4.2	26
45	Avoiding false local minima by proper initialization of connections. IEEE Transactions on Neural Networks, 1992, 3, 899-905.	4.2	177
46	Comments on "Bayes statistical behavior and valid generalization of pattern classifying neural networks" [with reply]. IEEE Transactions on Neural Networks, 1992, 3, 1026-1027.	4.2	7
47	Optimization for training neural nets. IEEE Transactions on Neural Networks, 1992, 3, 232-240.	4.2	180
48	The least-squares discriminant function. Optics Communications, 1992, 89, 73-79.	2.1	4
49	Pitch detection with a neural-net classifier. IEEE Transactions on Signal Processing, 1991, 39, 298-307.	5.3	32
50	Invariance and neural nets. IEEE Transactions on Neural Networks, 1991, 2, 498-508.	4.2	63
51	Performance and generalization of the classification figure of merit criterion function. IEEE Transactions on Neural Networks, 1991, 2, 322-325.	4.2	10
52	Shift invariance and the neocognitron. Neural Networks, 1990, 3, 403-410.	5.9	45
53	Scaling of CGHs with hologram size. Optics Communications, 1990, 78, 25-29.	2.1	0
54	Optical correlation CGHs with modulated error diffusion. Applied Optics, 1989, 28, 5358.	2.1	7

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55	The efficient generation of pronunciation dictionaries: human factors during bootstrapping. , 0, , .		14
56	The efficient generation of pronunciation dictionaries: machine learning factors during bootstrapping. , 0, , .		6
57	Bootstrapping pronunciation dictionaries: practical issues. , 0, , .		5
58	Developing consistent pronunciation models for phonemic variants. , 0, , .		4
59	ASR corpus design for resource-scarce languages. , 0, , .		30
60	Woefzela - an open-source platform for ASR data collection in the developing world. , 0, , .		10
61	Efficient harvesting of internet audio for resource-scarce ASR. , 0, , .		9