Bjoern Schuller

List of Publications by Year in Descending Order

70 papers	**849** citations	**14** h-index	**26** g-index
91 ext. papers	**1,413** ext. citations	**4.8** avg, IF	**4.99** L-index

#	Paper	IF	Citations
70	End-to-End Video-to-Speech Synthesis Using Generative Adversarial Networks.. *IEEE Transactions on Cybernetics*, **2022**, PP,	10.2	3
69	Rethinking Auditory Affective Descriptors Through Zero-Shot Emotion Recognition in Speech. *IEEE Transactions on Computational Social Systems*, **2021**, 1-12	4.5	0
68	Sentiment Analysis and Topic Recognition in Video Transcriptions. *IEEE Intelligent Systems*, **2021**, 36, 88-95	4.2	40
67	Introduction to the Special Issue on MMAC: Multimodal Affective Computing of Large-Scale Multimedia Data. *IEEE MultiMedia*, **2021**, 28, 8-10	2.1	2
66	Can Appliances Understand the Behavior of Elderly Via Machine Learning? A Feasibility Study. *IEEE Internet of Things Journal*, **2021**, 8, 8343-8355	10.7	2
65	Artificial Intelligence Internet of Things for the Elderly: From Assisted Living to Health-Care Monitoring. *IEEE Signal Processing Magazine*, **2021**, 38, 78-88	9.4	9
64	A Review on Five Recent and Near-Future Developments in Computational Processing of Emotion in the Human Voice. *Emotion Review*, **2021**, 13, 44-50	4.6	13
63	An Online Robot Collision Detection and Identification Scheme by Supervised Learning and Bayesian Decision Theory. *IEEE Transactions on Automation Science and Engineering*, **2021**, 18, 1144-1156	4.9	10
62	SEWA DB: A Rich Database for Audio-Visual Emotion and Sentiment Research in the Wild. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 1022-1040	13.3	33
61	Can Machine Learning Assist Locating the Excitation of Snore Sound? A Review. *IEEE Journal of Biomedical and Health Informatics*, **2021**, 25, 1233-1246	7.2	7
60	. *IEEE Transactions on Multimedia*, **2021**, 1-1	6.6	0
59	The Detection of Parkinson\'s Disease From Speech Using Voice Source Information. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2021**, 29, 1925-1936	3.6	8
58	Guided Generative Adversarial Neural Network for Representation Learning and Audio Generation Using Fewer Labelled Audio Data. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2021**, 29, 2575-2590	3.6	1
57	A Deep Adaptation Network for Speech Enhancement: Combining a Relativistic Discriminator With Multi-Kernel Maximum Mean Discrepancy. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2021**, 29, 41-53	3.6	1
56	Learning Multimodal Representations for Drowsiness Detection. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-10	6.1	3
55	Validity of machine learning in biology and medicine increased through collaborations across fields of expertise. *Nature Machine Intelligence*, **2020**, 2, 18-24	22.5	23
54	Customized ViNeRS Method for Video Neuro-Advertising of Green Housing. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	4

53	Efficient Collection and Representation of Preverbal Data in Typical and Atypical Development. *Journal of Nonverbal Behavior*, **2020**, 44, 419-436	3.4	2
52	Multi-Task Semi-Supervised Adversarial Autoencoding for Speech Emotion Recognition. *IEEE Transactions on Affective Computing*, **2020**, 1-1	5.7	13
51	Average Jane, Where Art Thou? Recent Avenues in Efficient Machine Learning Under Subjectivity Uncertainty. *Communications in Computer and Information Science*, **2020**, 42-55	0.3	4
50	The perception of emotional cues by children in artificial background noise. *International Journal of Speech Technology*, **2020**, 23, 169-182	1.3	2
49	Holistic Affect Recognition Using PaNDA: Paralinguistic Non-metric Dimensional Analysis. *IEEE Transactions on Affective Computing*, **2020**, 1-1	5.7	0
48	. *IEEE Journal on Selected Topics in Signal Processing*, **2020**, 14, 423-434	7.5	19
47	High-Fidelity Audio Generation and Representation Learning With Guided Adversarial Autoencoder. *IEEE Access*, **2020**, 8, 223509-223528	3.5	1
46	Exploiting time-frequency patterns with LSTM-RNNs for low-bitrate audio restoration. *Neural Computing and Applications*, **2020**, 32, 1095-1107	4.8	11
45	. *IEEE Transactions on Games*, **2020**, 12, 145-154	1.2	8
44	Snore-GANs: Improving Automatic Snore Sound Classification With Synthesized Data. *IEEE Journal of Biomedical and Health Informatics*, **2020**, 24, 300-310	7.2	19
43	A Generic Human-Machine Annotation Framework Based on Dynamic Cooperative Learning. *IEEE Transactions on Cybernetics*, **2020**, 50, 1230-1239	10.2	9
42	Analysis of loss functions for fast single-class classification. *Knowledge and Information Systems*, **2020**, 62, 337-358	2.4	2
41	Classification of Lung Nodules Based on Deep Residual Networks and Migration Learning. *Computational Intelligence and Neuroscience*, **2020**, 2020, 8975078	3	12
40	AVEC19 **2019**,		8
39	A Comparison of AI-Based Throughput Prediction for Cellular Vehicle-To-Server Communication **2019**,		2
38	EmoBed: Strengthening Monomodal Emotion Recognition via Training with Crossmodal Emotion Embeddings. *IEEE Transactions on Affective Computing*, **2019**, 1-1	5.7	10
37	Large-scale Data Collection and Analysis via a Gamified Intelligent Crowdsourcing Platform. *International Journal of Automation and Computing*, **2019**, 16, 427-436	3.5	1
36	Context Modelling Using Hierarchical Attention Networks for Sentiment and Self-assessed Emotion Detection in Spoken Narratives **2019**,		8

35	Microexpressions: A Chance for Computers to Beat Humans at Detecting Hidden Emotions?. *Computer*, **2019**, 52, 4-5	1.6	
34	The ASC-Inclusion Perceptual Serious Gaming Platform for Autistic Children. *IEEE Transactions on Games*, **2019**, 11, 328-339	1.2	7
33	Speech Emotion Classification Using Attention-Based LSTM. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2019**, 27, 1675-1685	3.6	71
32	Multi-modal Active Learning From Human Data: A Deep Reinforcement Learning Approach **2019**,		11
31	Augment to Prevent **2019**,		22
30	Sound and the City: Current Perspectives on Acoustic Geo-Sensing in Urban Environment. *Acta Acustica United With Acustica*, **2019**, 105, 766-778	1.5	4
29	VCMNet: Weakly Supervised Learning for Automatic Infant Vocalisation Maturity Analysis **2019**,		2
28	Machine Listening for Heart Status Monitoring: Introducing and Benchmarking HSS - the Heart Sounds Shenzhen Corpus. *IEEE Journal of Biomedical and Health Informatics*, **2019**,	7.2	10
27	Responding to uncertainty in emotion recognition. *Journal of Information Communication and Ethics in Society*, **2019**, 17, 299-303	1.2	1
26	Deep Wavelets for Heart Sound Classification **2019**,		5
25	Can Deep Generative Audio be Emotional? Towards an Approach for Personalised Emotional Audio Generation **2019**,		5
24	Audiovisual Analysis for Recognising Frustration during Game-Play: Introducing the Multimodal Game Frustration Database **2019**,		5
23	Personalized Estimation of Engagement From Videos Using Active Learning With Deep Reinforcement Learning **2019**,		7
22	A Deep Learning Approach for Location Independent Throughput Prediction **2019**,		2
21	Automated Classification of Airborne Pollen using Neural Networks. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 4474-4478	0.9	5
20	Teaching Machines to Know Your Depressive State: On Physical Activity in Health and Major Depressive Disorder. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**,	0.9	5
19	Snoring - An Acoustic Definition. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 3653-3657	0.9	0
18	Audio-based Recognition of Bipolar Disorder Utilising Capsule Networks **2019**,		5

No.	Publication	IF	Cit.
17	End-to-end Audio Classification with Small Datasets — Making It Work **2019**,		4
16	**2019**,		3
15	. *IEEE Transactions on Multimedia*, **2019**, 21, 1289-1301	6.6	15
14	Asynchronous and Event-Based Fusion Systems for Affect Recognition on Naturalistic Data in Comparison to Conventional Approaches. *IEEE Transactions on Affective Computing*, **2018**, 9, 410-423	5.7	6
13	Personalized machine learning for robot perception of affect and engagement in autism therapy. *Science Robotics*, **2018**, 3,	18.6	89
12	Accelerating Biomedical Signal Processing Using GPU: A Case Study of Snore Sound Feature Extraction. *Interdisciplinary Sciences, Computational Life Sciences*, **2017**, 9, 550-555	3.5	1
11	. *IEEE Signal Processing Magazine*, **2017**, 34, 107-129	9.4	33
10	A Survey on perceived speaker traits: Personality, likability, pathology, and the first challenge. *Computer Speech and Language*, **2015**, 29, 100-131	2.8	32
9	Paralinguistics in speech and language—State-of-the-art and the challenge. *Computer Speech and Language*, **2013**, 27, 4-39	2.8	131
8	The INTERSPEECH 2019 Computational Paralinguistics Challenge: Styrian Dialects, Continuous Sleepiness, Baby Sounds & Orca Activity		17
7	Attention-Enhanced Connectionist Temporal Classification for Discrete Speech Emotion Recognition		16
6	Towards Robust Speech Emotion Recognition Using Deep Residual Networks for Speech Enhancement		10
5	A Hierarchical Attention Network-Based Approach for Depression Detection from Transcribed Clinical Interviews		5
4	Autonomous Emotion Learning in Speech: A View of Zero-Shot Speech Emotion Recognition		4
3	Continuous Emotion Recognition in Speech — Do We Need Recurrence?		5
2	Using Speech to Predict Sequentially Measured Cortisol Levels During a Trier Social Stress Test		2
1	Vocalisation Repertoire at the End of the First Year of Life: An Exploratory Comparison of Rett Syndrome and Typical Development. *Journal of Developmental and Physical Disabilities*,1	1.5	0