Publications by Björn W. Schuller

11 January 2019
Current h-index: 69 (source: Google Scholar)
Current citation count: 22,033 (source: Google Scholar)
Citations are only provided for papers with citation count ≥100.
(IF): Journal Impact Factor according to Journal Citation Reports, Thomson Reuters.
(IF*): Conference Impact Factor according to http://citescholar.org. Acceptance rates and impact factors of satellite workshops may be subsumed with the main conference.

A) BOOKS

Books Authored (6):
4) B. Schuller and A. Batliner, Computational Paralinguistics: Emotion, Affect and Personality in Speech and Language Processing. Wiley, November 2013. (> 100 citations)

Books Edited (5):

Contributions to Books (45):


B) REFERRED JOURNAL PAPERS (136)


72) S. Hancke, A. Abstreiter, N. Cummins, and B. Schuller, “Trustability-based Dynamic Active Learning for Crowdsourced


204) Y. Guo, J. Han, Z. Zhang, B. Schuller, and Y. Ma, “Exploring a New Method for Food Likability Rating Based on DTCWT Theory,” in Proceedings of the 20th ACM International Conference on Multimodal Interaction, ICMI, (Boulder, CO), ACM, ACM, October 2018. 5 pages, to apper


Conference on Affective Computing and Intelligent Interaction (ACCI Asia 2018), (Beijing, P.R. China), AAAI, IEEE, May 2018. 6 pages (oral acceptance rate: 29 %)


238) S. Song, S. Zhang, B. Schuller, L. Shen, and M. Valstar, “Noise Invariant Frame Selection: A Simple Method to Address the Background Noise Problem for Text-Independent Speaker Verification,” in Proceedings 31st International Joint Conference on Neural Networks (IJCNN), (Rio de Janeiro, Brazil), pp. 1–8, IEEE, IEEE, July 2018


rate: 54 %)


249) S. Amiriparian, M. Freitag, N. Cummins, and B. Schuller, “Feature Selection in Multimodal Continuous Emotion Prediction,” in Proc. 2nd International Workshop on Automatic Sentiment Analysis in the Wild (WASA 2017) held in conjunction with the 7th biannual Conference on Affective Computing and Intelligent Interaction (ACII 2017), (San Antonio, TX), pp. 30–37, AAAC, IEEE, October 2017


260) N. Cummins, B. Vlasenko, H. Sagha, and B. Schuller, “Enhancing speech-based depression detection through gender dependent vowel level formant features,” in Proc. 16th Conference on Artificial Intelligence in Medicine (AIME), (Vienna, Austria), pp. 209–214, Society for Artificial Intelligence in Medicine (AIME), June 2017


262) J. Deng, F. Eyben, B. Schuller, and F. Burkhardt, “Deep Neural Networks for Anger Detection from Real Life Speech Data,” in Proc. 2nd International Workshop on Automatic Sentiment Analysis in the Wild (WASA 2017) held in conjunction with the 7th biannual Conference on Affective Computing and Intelligent Interaction (ACII 2017), (San Antonio, TX), pp. 1–6, AAAC, IEEE, October 2017


277) S. Hantke, Z. Zhang, and B. Schuller, “Towards Intelligent
275) Hagerer, V. Pandit, F. Eyben, and B. Schuller, “Enhancing
272) J. Han, Z. Zhang, F. Ringeval, and B. Schuller, “Prediction-
B. Schuller, R. Cowie, and M. Pantic, eds.), (Mountain View, CA), pp. 3–9, ACM, ACM, October 2017


303) Z. Zhang, F. Weninger, M. Wöllmer, J. Han, and B. Schuller, “Towards Intoxicated Speech Recognition,” in Proceedings 30th International Joint Conference on Neural Networks (IJCNN), (Anchorage, AK), pp. 1555–1559, IEEE, IEEE, May 2017. (acceptance rate: 67 %)


E. Marchi, B. Schuller, S. Baron-Cohen, O. Golan, S. Bölte, P. Arora, and R. Häub-Umbach, “Typicality and Emotion in the


388) Y. Zhang, E. Coutinho, Z. Zhang, M. Adam, and B. Schuller, “On Rater Reliability and Agreement Based Dynamic Active Learning,” in Proc. 6th biannual Conference on Affective Computing and Intelligent Interaction (ACII 2015), (Xi’an, P.R.


399) E. Coutinho, J. Deng, and B. Schuller, “Transfer Learning Emotion Manifestation Across Music and Speech,” in *Proceedings 2014 International Joint Conference on Neural Networks (IJCNN) as part of the IEEE World Congress on Computational Intelligence (IEEE WCCI)*, (Beijing, China), pp. 3592–3598, IEEE, IEEE, July 2014. (acceptance rate: 30 %)


412) E. Marchi, G. Ferroni, F. Eyben, S. Squartini, and B. Schuller, “Audio Onset Detection: A Wavelet Packet Based Approach with Recurrent Neural Networks,” in Proceedings 2014 International Joint Conference on Neural Networks (IJCNN) as part of the IEEE World Congress on Computational Intelligence (IEEE WCCI), (Beijing, China), pp. 3585–3591, IEEE, IEEE, July 2014. (acceptance rate: 30 %)


448) M. Valstar, B. Schuller, K. Smith, F. Eyben, B. Jiang, S. Bi-


J. Deng and B. Schuller, “Confidence Measures in Speech Emotion Recognition Based on Semi-supervised Learning,” in


479) W. Han, H. Li, L. Ma, X. Zhang, and B. Schuller, “A Ranking-based Emotion Annotation Scheme and Real-life Speech Database,” in Proceedings 4th International Workshop on EMO-


D) PATENTS (5)


E) OTHER

Theses (3):


643) B. Schuller, Automatische Emotionserkennung aus sprachlicher und manueller Interaktion. Doctoral thesis, Technische Universität München, Munich, Germany, June 2006. 244 pages

644) B. Schuller, "Automatisches Verstehen gesprochener mathematischer Formeln," diploma thesis, Technische Universität München, Munich, Germany, October 1999

Editorials / Edited Volumes (55):


678) L. Paletta, B. Schuller, P. Robinson, and N. Sabouret, eds., Proceedings of the 2nd International Workshop on Digital Games for Empowerment and Inclusion, IDGEI 2014, (Haifa, Israel), ACM, ACM, February 2014. held in conjunction with the 19th International Conference on Intelligent User Interfaces, IUI 2014


Conference on Multimodal Interaction, ICMI 2013


691) L. Paletta, L. Itti, B. Schuller, and F. Fang, eds., Proceedings of the 6th International Symposium on Attention in Cognitive Systems 2013, ISACS 2013, LNAI, (Beijing, P.R. China), arxiv.org, Springer, August 2013. held in conjunction with the 23rd International Joint Conference on Artificial Intelligence, IJCAI 2013


Abstracts in Journals (6):


Abstracts in Conference/Challenge Proceedings (29)


726) B. Schuller, “Interfaces Seeing and Hearing the User,” in Proceedings The Rank Prize Funds Symposium on Natural User Interfaces, Augmented Reality and Beyond: Challenges at the Intersection of HCI and Computer Vision, (Grasmere, UK), The Rank Prize Funds, The Rank Prize Funds, November 2013. invited contribution, 1 page


731) F. Eyben and B. Schuller, “Music Classification with the Munich openSMILE Toolkit,” in Proceedings Annual Meeting of the MIREX 2010 community as part of the 11th International Conference on Music Information Retrieval, (Utrecht, Netherlands), ISMIR, ISMIR, August 2010. 2 pages (acceptance rate: 61 %)


733) S. Böck, F. Eyben, and B. Schuller, “Beat Detection with Bidirectional Long Short-Term Memory Neural Networks,” in Proceedings Annual Meeting of the MIREX 2010 community as part of the 11th International Conference on Music Information Retrieval, (Utrecht, Netherlands), ISMIR, ISMIR, August 2010. 1 page (acceptance rate: 61 %)


735) S. Böck, F. Eyben, and B. Schuller, “Tempo Detection with Bidirectional Long Short-Term Memory Neural Networks,” in Proceedings Annual Meeting of the MIREX 2010 community as part of the 11th International Conference on Music Information Retrieval, (Utrecht, Netherlands), ISMIR, ISMIR, August 2010. 3 pages (acceptance rate: 61 %)

Invited Papers (30):

2018. (Munich, Germany), DEGA, DEGA, March 2018. 4 pages, invited contribution, Structured Session Deep Learning for Audio


759) F. Weninger and B. Schuller, “Fusing Utterance-Level Classifiers for Robust Intoxication Recognition from Speech,” in Proceedings MMCogEmS 2011 Workshop (Inferring Cognitive and Emotional States from Multimodal Measures), held in conjunction with the 13th International Conference on Multi-


Forewords (5):


770) R. Cowie, Q. Ji, J. Tao, J. Gratch, and B. Schuller, “Foreword ACII 2015 – Affective Computing and Intelligent Interaction at Xi’an,” in Proc. 6th biannual Conference on Affective Computing and Intelligent Interaction (ACII 2015), (Xi’an, P.R. China), AAAC, IEEE, September 2015. 2 pages


772) B. Schuller, “Supervisor’s Foreword,” in Real-time Speech and Music Classification by Large Audio Feature Space Extraction (F. Eyben, ed.), Springer, 2015. invited foreword, 2 pages

Reviewed Technical Newsletter Contributions (5):


Technical Reports (19):


789) Z. Zhang, D. Liu, J. Han, and B. Schuller, “Learning Audio Sequence Representations for Acoustic Event Classification,” arxiv.org, July 2017. 8 pages

790) G. Keren and B. Schuller, “Convolutional RNN: an Enhanced Model for Extracting Features from Sequential Data,” arxiv.org, February 2016. 8 pages


