Publications by Björn W. Schuller

15 March 2018
Current h-index: 65 (source: Google Scholar)
Current citation count: 17881 (source: Google Scholar)
Citations are only provided for papers with citation count ≥100.
(IF): Journal Impact Factor according to Journal Citation Reports, Thomson Reuters.
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 (43):


C. REFEREEED CONFERENCE PROCEEDINGS

**Contributions to Conference Proceedings (409):**

B. W. Schuller, “Responsible Speech and Language Analysis: On Auditaability, Benchmarking, Confidence, Data-Reliance & Explainability,” in *Proceedings of the Legal and Ethical Issues...*


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

B. Schuller, “Sentiment Analysis Using Image-based Deep Spectrum Features,” 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. 26–29, AAAC, IEEE, October 2017


206) 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


208) 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


219) J. Han, Z. Zhang, F. Ringeval, and B. Schuller, “Reconstruction-


Affective Computing and Intelligent Interaction (ACHI 2017), (San Antonio, TX), pp. 86–91, AAAC, IEEE, October 2017. (acceptance rate: 50 %)


250) Z. Zhang, F. Weninger, M. Wüllner, 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 %)


267) G. Keren and B. Schuller, “Convolutional RNN: an Enhanced Model for Extracting Features from Sequential Data,” in Proceedings 2016 International Joint Conference on Neural Networks (IJCNN) as part of the IEEE World Congress on Computational Intelligence (IEEE WCCI), (Vancouver, Canada), pp. 3412–3419, IEEE, IEEE, July 2016


302) Y. Zhang and B. Schuller, “Towards Human-Like Holistic Machine Perception of Speaker States and Traits,” in Proceedings of the Human-Like Computing Machine Intelligence Workshop,


335) Y. Zhang, E. Coutinho, Z. Zhang, M. Adam, and B. Schuller, “On Rater Reliability and Agreement Based Dynamic Active Learning,” in Proc. 6th biennial Conference on Affective Computing and Intelligent Interaction (ACII 2015), (Xi’an, P.R. China), pp. 70–76, AAAC, IEEE, IEEE, September 2015. (acceptance rate oral: 28 %)


346) 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 %)


359) 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 %)

360) S. Newman, O. Golan, S. Baron-Cohen, S. Böte, A. Baranger, B. Schuller, P. Robinson, A. Camurri, N. Meir-Goren,


F. J. Weninger, S. Watanabe, Y. Tachioka, and B. Schuller, “The acoustics of eye contact -? Detecting visual attention from


F. J. Weninger, F. Eyben, and B. Schuller, “Dimensional Affect and Depression Challenge,” in Proceedings 3rd International Workshop on Intelligent Digital Games for Empowerment and Inclusion (IDGEI 2013) held in conjunction with the 8th Foundations of Digital Games 2013 (FDG) (B. Schuller, L. Paletta, and N. Sabouret, eds.), (Chania, Greece), ACM, SASDG, May 2013. 8 pages (acceptance rate: 69 %)

F. J. Weninger, F. Eyben, and B. Schuller, “Developing a Digital Game to Support Cultural Learning and Inclusion (IDGEI 2013) held in conjunction with the 8th Foundations of Digital Games 2013 (FDG) (B. Schuller, L. Paletta, and N. Sabouret, eds.), (Chania, Greece), ACM, SASDG, May 2013. 8 pages (acceptance rate: 69 %)


400) F. Weninger, F. Eyben, and B. Schuller, “The TUM Approach


Annual Conference of the International Speech Communication Association, (Portland, OR), ISCA, ISCA, September 2012. 4 pages (acceptance rate: 52 %, IF*: 1.05 (2010))


441) B. Schuller, Z. Zhang, F. Weninger, and G. Rigoll, “Using Multiple Databases for Training in Emotion Recognition: To Unite or to Vote?,” in Proceedings INTERSPEECH 2011, 12th


481) F. Eyben, S. Böck, B. Schuller, and A. Graves, “Universal Onset Detection with Bidirectional Long-Short Term Memory Neural Networks,” in Proceedings 11th International Society for Music Information Retrieval Conference, ISMIR 2010, (Utrecht,


D) PATENTS (5)


E) OTHER


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

591) B. Schuller, “Automatisches Verstehen gesprochener mathematischer Formeln,” diploma thesis, Technische Universität München, Munich, Germany, October 1999

Editorials / Edited Volumes (52):


595) S. Squartini, B. Schuller, A. Uncini, and C.-K. Ting, “Editorial: Computational Intelligence for End-to-End Audio Processing,”
IEEE Transaction on Emerging Topics in Computational Intelligence, Special Issue of Computational Intelligence for End-to-End Audio Processing, 2017. 4 pages, to appear (IF: 3.826, 5-year IF: 4.017 (2016))


B. Schuller, S. Steidl, and A. Batliner, “Introduction to the Special Issue on Paralinguistics in Naturalistic Speech and Language,” *Computer Speech and Language, Special Issue on Paralinguistics in Naturalistic Speech and Language*, vol. 27, pp. 1–3, January 2013. editorial (acceptance rate: 36%, IF* 1.812, 5-year IF: 1.776 (2013)).


E. Cambria, B. Schuller, B. Liu, H. Wang, and C. Havasi, “Guest Editor’s Introduction: Knowledge-based Approaches to Concept-Level Sentiment Analysis,” *IEEE Intelligent Systems Magazine, Special Issue on Statistical Approaches to Concept-Level Sentiment Analysis*, vol. 28, pp. 12–14, March/April 2013. (IF: 2.570, 5-year IF: 2.632 (2010)).

E. Cambria, B. Schuller, B. Liu, H. Wang, and C. Havasi, “Guest Editor’s Introduction: Statistical Approaches to Concept-Level Sentiment Analysis,” *IEEE Intelligent Systems Magazine, Special Issue on Statistical Approaches to Concept-Level Sentiment Analysis*, vol. 28, pp. 6–9, May/June 2013. (IF: 2.570, 5-year IF: 2.632 (2010)).


Abstracts in Journals (6):


Abstracts in Conference/Challenge Proceedings (26)

650) B. Schuller, “Emotion Sensing at Your Wrist,” in 2nd Workshop on emotion awareness for pervasive computing with mobile and wearable devices (EmotionAware 2018) in conjunction with the 2018 IEEE International Conference on Pervasive Computing and Communications (PerCom 2018), (Athens, Greece), IEEE, IEEE, March 2018. 1 page, to appear

651) B. Schuller, “Mental health monitoring in the pocket as a life changer? The AI view,” in *Proceedings 9th Scientific Meeting of the International Society for Research on Internet Interventions, ISRII 2017*, (Berlin, Germany), Society for Research on Internet Interventions (SRRI), Elsevier, October 2017. 1 page


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 %)

F. Eyben and B. Schuller, “Tempo Estimation from Tatum and Meter Vectors,” 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 %)


Invited Papers (30):


Kraftfahrzeug


Forewords (4):


709) 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

711) 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 (18):
727) Z. Zhang, D. Liu, J. Han, and B. Schuller, “Learning Audio Sequence Representations for Acoustic Event Classification,” arxiv.org, July 2017. 8 pages
728) G. Keren and B. Schuller, “Convolutional RNN: an Enhanced Model for Extracting Features from Sequential Data,” arxiv.org, February 2016. 8 pages