Publications

Björn W. Schuller

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h-index: **128** (Google Scholar)
Citations: **86 129** (Google Scholar)

A) Books

Books Authored (7):

1) Amiriparian, S., Bühlmeier, A., Henkelmann, C., Schmitt, M., Schuller, B., and Zeigermann, O. (2019b). *Einstieg ins Machine Learning*. entwickler.press shortcuts. entwickkler.press/S&S Media Group. 70 pages
2) Schuller, B. W. (2018h). *I Know What You're Thinking: The Making of Emotional Machines*. Princeton University Press. to appear
3) Balahur-Dobrescu, A., Taboada, M., and Schuller, B. W. (2017). *Computational Methods for Affect Detection from Natural Language*. Computational Social Sciences. Springer. to appear
4) Schuller, B. (2013b). *Intelligent Audio Analysis*. Signals and Communication Technology. Springer. 350 pages
5) Schuller, B. and Batliner, A. (2013). *Computational Paralinguistics: Emotion, Affect and Personality in Speech and Language Processing*. Wiley
6) Kroschel, K., Rigoll, G., and Schuller, B. (2011). *Statistische Informationstechnik*. Springer, Berlin/Heidelberg, 5 edition
7) Schuller, B. (2007). *Mensch, Maschine, Emotion – Erkennung aus sprachlicher und manueller Interaktion*. VDM Verlag Dr Müller, Saarbrücken. 239 pages

Books Edited (9):

8) Ahad, M. R., Nijholt, A., Kamal, M. S., Schuller, B. W., and Turk, M., editors (2026a). *Applied Machine Learning on Sensing Technologies*. Ubiquitous Computing, Healthcare and Well-being Series. CRC Press, Taylor & Francis Group
9) Ahad, M. R., Nijholt, A., Kamal, M. S., Schuller, B. W., and Turk, M., editors (2026b). *Visual Sensing and Ubiquitous Computing*. Ubiquitous Computing, Healthcare and Well-being Series. CRC Press, Taylor & Francis Group
10) Qian, K., Fazekas, G., Schuller, B. W., Li, S., and Li, Z., editors (2024b). *Human-centred computer audition: Sound, music, and healthcare*. Frontiers in Digital Health and Frontiers in Physics and Frontiers in Psychology and Frontiers in Computer Science. Frontiers Media, 1 edition. 135 pages
11) Schuller, B. W., Pham, P. N., Do, S., Pattichis, C. S., and Nair, P., editors (2022g). *Health Technologies and Innovations to Effectively Respond to the COVID-19 Pandemic*. Frontiers in Digital Health. Frontiers Media, 1 edition. 197 pages
12) Quadrianto, N., Schuller, B. W., and Lattimore, F. R., editors (2022). *Ethical Machine Learning and Artificial Intelligence (AI)*. Frontiers in Artificial Intelligence and Frontiers in Big Data. Frontiers Media, 1 edition. 85 pages
13) Costin, H. N., Schuller, B. W., and Florea, A. M., editors (2020). *Recent Advances in Intelligent Assistive Technologies: Paradigms and Applications*. Intelligent Systems Reference Library. Springer, 1 edition
14) Oviatt, S., Schuller, B., Cohen, P., Sonntag, D., Potamianos, G., and Krüger, A., editors (2019). *The Handbook of Multimodal-Multisensor Interfaces Volume 3 – Multimodal Language Processing, Software Tools, Commercial Applications and Emerging Directions*. Number 23 in ACM Books. ACM Books, Morgan & Claypool. 789 pages
15) Oviatt, S., Schuller, B., Cohen, P., Sonntag, D., Potamianos, G., and Krüger, A., editors (2018). *The Handbook of Multimodal-Multisensor Interfaces Volume 2 – Signal Processing, Architectures, and Detection of Emotion and Cognition*. Number 21 in ACM Books. ACM Books, Morgan & Claypool. 531 pages
16) Oviatt, S., Schuller, B., Cohen, P., Sonntag, D., Potamianos, G., and Krüger, A., editors (2017). *The Handbook of Multimodal-Multisensor Interfaces Volume 1 – Foundations, User Modeling, and Common Modality Combinations*. Number 14 in ACM Books. ACM Books, Morgan & Claypool. 661 pages
17) D'Mello, S., Graesser, A., Schuller, B., and Martin, J.-C., editors (2011). *Proceedings of the 4. International HUMAINE Association Conference on Affective Computing and Intelligent Interaction 2011, ACII 2011*, volume 6974/6975, Part I / Part II of *Lecture Notes on Computer Science (LNCS)*, Memphis, TN. HUMAINE Association, Springer

Contributions to Books (60):

18) Tsangko, I., Triantafyllopoulos, A., and Schuller, B. W. (2026d). LLMs in Cultural Heritage. In Moallem, A., Degen, H., and Ntoa, S., editors, *Artificial Intelligence and Large Language Models: A Scientific Perspective*, The Human Element in Smart and Intelligent Systems, chapter 3. CRC Press, 1 edition. 32 pages, invited, to appear
19) Li, Y., Sun, Q., Akman, A., and Schuller, B. W. (2026g). Explainable AI for Healthcare. In Augusto,

J. C., editor, *Handbook on Smart Health*, volume 330 of *Studies in Health Technology and Informatics*, pages 632–652. Sage/IOS Press, 1 edition

20) Pokorny, F. and Schuller, B. (2025). Perspectives from Sound Engineering on Music and Language. In Sammler, D., editor, *Oxford Handbook of Language and Music*, chapter 10. Oxford University Press. 23 pages, invited, to appear
21) Schlicher, M., Li, Y., Mady, M., Murthy, S. M. K., Sun, Q., and Schuller, B. W. (2025a). Emotion in Voice and Language Across Cultures: A Modern Perspective. In Yik, M., editor, *Oxford Handbook of Emotion and Culture*. Oxford University Press. 19 pages, invited, to appear
22) Löchner, J. and Schuller, B. (2023). Affect and Emotion. In Stephanidis, C. and Salvendy, G., editors, *Human-Computer Interaction: HCI Foundations and Fundamentals*, Human-Computer Interaction: Foundations, Methods, Technologies and Applications, chapter 1.8. CRC Press. 18 pages, invited contribution, to appear
23) Triantafyllopoulos, A. and Schuller, B. W. (2024c). Expressivity and Speech Synthesis. In Gutzmann, D. and Turgay, K., editors, *Oxford Handbook of Expressivity*, Oxford Handbooks in Linguistics. Oxford University Press. 25 pages, invited, to appear
24) Schuller, D. and Schuller, B. (2022b). Ist Stimme das neue Blut? KI und Stimmbiomarker zu früheren Diagnose – für jedermann, überall und jederzeit. In Pfannstiel, M., editor, *Künstliche Intelligenz im Gesundheitswesen*, chapter 26, pages 565–579. Springer, Wiesbaden, Germany. invited contribution, awarded "Buchtipp Gesundheitswirtschaftskongress 2022"
25) Nessiem, M. A. F., Coppock, H., Mohamed, M. M., and Schuller, B. W. (2022). Artificial Intelligence in COVID-19. In Barh, D. and de Carvalho Azevedo, V. A., editors, *Omics approaches and technologies in COVID-19*, chapter 16, pages 255–273. Elsevier, 1 edition. invited contribution
26) Zhao, S., Huang, Q., Tang, Y., Yao, X., Yang, J., Ding, G., and Schuller, B. W. (2022a). Computational Emotion Analysis From Images: Recent Advances and Future Directions. In Ionescu, B., Bainbridge, W., and Murray, N., editors, *Human Perception of Visual Information – Psychological and Computational*, pages 85–113. Springer
27) Milling, M., Pokorny, F. B., and und Björn W.Schuller, K. D. B.-P. (2021). Stimme, das neue Blut!? Künstliche Intelligenz auf dem Weg Erkrankungen zu "hören". In Manzei-Gorsky, A., Schubert, C., and von Hayek, J., editors, *Technik und Gesundheit*, volume 4 of *Gesundheitsforschung. Interdisziplinäre Perspektiven (G.IP)*, pages 113–136. Nomos, 1 edition
28) Nessiem, M. A., Amin, M., Coppock, H., and Schuller, B. (2021a). Artificial Intelligence for Diagnosis and Monitoring of COVID-19. In Barh, D., editor, *COVID-19*. Elsevier. invited contribution
29) Schuller, B. W. and McTear, M. F. (2021). Sociocognitive Language Processing for Special User Groups. In Miehle, J., Minker, W., André, E., and Yoshino, K., editors, *Multimodal Agents for Ageing and Multicultural Societies*, Communications of NII Shonan Meetings, chapter 5, pages 87–95. Springer
30) Karas, V. and Schuller, B. (2021a). Deep Learning for Sentiment Analysis: an Overview and Perspectives. In Pinarbasi, F. and Taskiran, M. N., editors, *Natural Language Processing for Global and Local Business*, chapter 5, pages 97–133. IGI Global
31) Morency, L.-P., Sakti, S., Schuller, B. W., and Ultes, S. (2021). Multimodal Machine Learning for Social Interaction with Ageing Individuals. In Miehle, J., Minker, W., André, E., and Yoshino, K., editors, *Multimodal Agents for Ageing and Multicultural Societies*, Communications of NII Shonan Meetings, chapter 3, pages 51–70. Springer
32) Amiriparian, S., Schmitt, M., Ottl, S., Gerczuk, M., and Schuller, B. (2020c). Deep Unsupervised Representation Learning for Audio-based Medical Applications. In Nanni, L., Brahnam, S., Brattin, R., Ghidoni, S., and Jain, L. C., editors, *Deep Learners and Deep Learner Descriptors for Medical Applications*, volume 186 of *Intelligent Systems Reference Library (ISRL)*, chapter 5, pages 137–164. Springer. invited contribution
33) Cummins, N., Ren, Z., Mallol-Ragolta, A., and Schuller, B. (2020c). Machine learning in digital health, recent trends, and ongoing challenges. In Barh, D., editor, *Artificial Intelligence in Precision Health*, chapter 5, pages 121–148. Academic Press/Elsevier. invited contribution
34) Cummins, N., Matcham, F., Klapper, J., and Schuller, B. (2020a). Artificial intelligence to aid the detection of mood disorders. In Barh, D., editor, *Artificial Intelligence in Precision Health*, chapter 10, pages 231–255. Academic Press/Elsevier. invited contribution
35) Pateraki, M., Fysarakis, K., Sakkalis, V., Spanoudakis, G., Varlamis, I., Ioannidis, S., Maniadakis, M., Lourakis, M., Cummins, N., Schuller, B., Loutsetis, E., and Koutsouris, D. (2020). Biosensors and Internet of Things in smart healthcare applications: challenges and opportunities. In Dey, N., Ashour, A., Fong, S. J., and Bhatt, C., editors, *Wearable and Implantable Medical Devices*, volume 7 of *Applications in ubiquitous sensing applications for healthcare*, chapter 2, pages 25–53. Elsevier / Academic Press, 1 edition
36) Schuller, D. and Schuller, B. (2020b). The Challenge of Automatic Eating Behaviour Analysis and Tracking. In Costin, H. N., Schuller, B. W., and Florea, A. M., editors, *Recent Advances in Intelligent Assistive Technologies: Paradigms and Applications*, Intelligent Systems Reference Library, pages 187–204. Springer
37) Amiriparian, S., Schmitt, M., Hantke, S., Pandit, V.,

and Schuller, B. (2019f). Humans Inside: Cooperative Big Multimedia Data Mining. In Esposito, A., Esposito, A. M., and Jain, L. C., editors, *Innovations in Big Data Mining and Embedded Knowledge: Domestic and Social Context Challenges*, volume 159 of *Intelligent Systems Reference Library (ISRL)*, pages 235–257. Springer. invited contribution

38) Pandit, V., Amiriparian, S., Schmitt, M., Qian, K., Guo, J., Matsuoka, S., and Schuller, B. (2019a). Big Data Multimedia Mining: Feature Extraction facing Volume, Velocity, and Variety. In Vrochidis, S., Huet, B., Chang, E. Y., and Kompatsiaris, I., editors, *Big Data Analytics for Large-Scale Multimedia Search*, chapter 3, pages 61–83. Wiley
39) Tzirakis, P., Zafeiriou, S., and Schuller, B. (2019c). Real-world automatic continuous affect recognition from audiovisual signals. In Alameda-Pineda, X., Ricci, E., and Sebe, N., editors, *Multi-modal Behavior Analysis in the Wild: Advances and Challenges*, Computer Vision and Pattern Recognition, chapter 18, pages 387–406. Elsevier
40) Cummins, N. and Schuller, B. (2019). Latest Advances in Computational Speech Analysis for Mobile Sensing. In Montag, C. and Baumeister, H., editors, *Digital Phenotyping and Mobile Sensing*, Studies in Neuroscience, Psychology and Behavioral Economics, pages 141–159. Springer, Berlin Heidelberg. invited contribution
41) Schmitt, M. and Schuller, B. (2019a). Machine-based decoding of paralinguistic vocal features. In Frühholz, S. and Belin, P., editors, *The Oxford Handbook of Voice Perception*, chapter 43, pages 719–742. Oxford University Press
42) Schuller, B. (2018c). Multimodal User State and Trait Recognition: An Overview. In Oviatt, S., Schuller, B., Cohen, P., Sonntag, D., Potamianos, G., and Krüger, A., editors, *The Handbook of Multimodal-Multisensor Interfaces Volume 2 – Signal Processing, Architectures, and Detection of Emotion and Cognition*, volume 21 of *ACM Books*, chapter 5, pages 131–165. ACM Books, Morgan & Claypool, 1 edition
43) Bengio, S., Deng, L., Morency, L.-P., and Schuller, B. (2018). Multidisciplinary Challenge Topic: Perspectives on Predictive Power of Multimodal Deep Learning: Surprises and Future Directions . In Oviatt, S., Schuller, B., Cohen, P., Sonntag, D., Potamianos, G., and Krüger, A., editors, *The Handbook of Multimodal-Multisensor Interfaces Volume 2 – Signal Processing, Architectures, and Detection of Emotion and Cognition*, volume 21, chapter 14, pages 457–472. ACM Books, Morgan & Claypool, 1 edition
44) Keren, G., Mousa, A. E.-D., Pietquin, O., Zafeiriou, S., and Schuller, B. (2018e). Deep Learning for Multisensorial and Multimodal Interaction. In Oviatt, S., Schuller, B., Cohen, P., Sonntag, D., Potamianos, G., and Krüger, A., editors, *The Handbook of Multimodal-Multisensor Interfaces Volume 2 – Signal Processing, Architectures, and Detection of Emotion and Cognition*, volume 21, chapter 4, pages 99–128. ACM Books, Morgan & Claypool
45) Marchi, E., Zhang, Y., Eyben, F., Ringeval, F., and Schuller, B. (2018). Autism and Speech, Language, and Emotion – a Survey. In Patil, H., Neustein, A., and Kulshreshtha, M., editors, *Signal and Acoustic Modeling for Speech and Communication Disorders*, volume 5 of *Speech Technology and Text Mining in Medicine and Healthcare*, chapter 6, pages 139–160. De Gruyter, Berlin. invited contribution
46) Schuller, B., Elkins, A., and Scherer, K. (2017a). Computational Analysis of Vocal Expression of Affect: Trends and Challenges. In Burgoon, J., Magnenat-Thalmann, N., Pantic, M., and Vinciarelli, A., editors, *Social Signal Processing*, chapter 6, pages 56–68. Cambridge University Press
47) Gunes, H. and Schuller, B. (2017a). Automatic Analysis of Aesthetics: Human Beauty, Attractiveness, and Likability. In Burgoon, J., Magnenat-Thalmann, N., Pantic, M., and Vinciarelli, A., editors, *Social Signal Processing*, chapter 14, pages 183–201. Cambridge University Press
48) Gunes, H. and Schuller, B. (2017b). Automatic Analysis of Social Emotions. In Burgoon, J., Magnenat-Thalmann, N., Pantic, M., and Vinciarelli, A., editors, *Social Signal Processing*, chapter 16, pages 213–224. Cambridge University Press
49) Schuller, B. (2016b). Acquisition of affect. In Tkalcic, M., De Carolis, B., de Gemmis, M., Odić, A., and Kosir, A., editors, *Emotions and Personality in Personalized Services*, Human-Computer Interaction Series, pages 57–80. Springer, 1 edition
50) Burkhardt, F., Pelachaud, C., Schuller, B., and Zovato, E. (2017a). EmotionML. In Dahl, D., editor, *Multimodal Interaction with W3C Standards: Towards Natural User Interfaces to Everything*, pages 65–80. Springer, Berlin/Heidelberg
51) Schuller, B. (2015b). Deep Learning our Everyday Emotions – A Short Overview. In Bassis, S., Esposito, A., and Morabito, F. C., editors, *Advances in Neural Networks: Computational and Theoretical Issues Emotional Expressions and Daily Cognitive Functions*, volume 37 of *Smart Innovation Systems and Technologies*, pages 339–346. Springer, Berlin Heidelberg. invited contribution
52) Schuller, B. and Weninger, F. (2015). Human Affect Recognition – Audio-Based Methods. In Webster, J. G., editor, *Wiley Encyclopedia of Electrical and Electronics Engineering*, pages 1–13. John Wiley & Sons, New York. invited contribution
53) Schuller, B. (2015g). Multimodal Affect Databases – Collection, Challenges & Chances. In Calvo, R. A., D'Mello, S., Gratch, J., and Kappas, A., editors, *Handbook of Affective Computing*, Oxford Library of Psychology, chapter 23, pages 323–333. Oxford University Press. invited contribution
54) Schuller, B. (2015d). Emotion Modeling via Speech Content and Prosody – in Computer Games and

Elsewhere. In Yannakakis, G. and Karpouzis, K., editors, *Emotion in Games – Theory and Practice*, volume 4 of *Socio-Affective Computing*, chapter 5, pages 85–102. Springer. invited contribution

55) Brückner, R. and Schuller, B. (2015). Being at Odds? – Deep and Hierarchical Neural Networks for Classification and Regression of Conflict in Speech. In D'Errico, F., Poggi, I., Vinciarelli, A., and Vincze, L., editors, *Conflict and Multimodal Communication – Social research and machine intelligence*, Computational Social Sciences, pages 403–429. Springer, Berlin/Heidelberg. invited contribution
56) Castellano, G., Gunes, H., Peters, C., and Schuller, B. (2015). Multimodal Affect Detection for Naturalistic Human-Computer and Human-Robot Interactions. In Calvo, R. A., D'Mello, S., Gratch, J., and Kappas, A., editors, *Handbook of Affective Computing*, Oxford Library of Psychology, chapter 17, pages 246–260. Oxford University Press. invited contribution
57) Weninger, F., Wöllmer, M., and Schuller, B. (2015c). Emotion Recognition in Naturalistic Speech and Language – A Survey. In Konar, A. and Chakraborty, A., editors, *Emotion Recognition: A Pattern Analysis Approach*, chapter 10, pages 237–267. Wiley, 1 edition
58) Marchi, E., Ringeval, F., and Schuller, B. (2014c). Voice-enabled assistive robots for handling autism spectrum conditions: an examination of the role of prosody. In Neustein, A., editor, *Speech and Automata in Health Care (Speech Technology and Text Mining in Medicine and Healthcare)*, pages 207–236. De Gruyter, Boston/Berlin/Munich. invited contribution
59) Schuller, B. (2013d). Prosody and Phonemes: On the Influence of Speaking Style. In Hancil, S. and Hirst, D., editors, *Prosody and Iconicity*, chapter 13, pages 233–250. Benjamins
60) Schuller, B. and Weninger, F. (2012). Ten Recent Trends in Computational Paralinguistics. In Esposito, A., Vinciarelli, A., Hoffmann, R., and Müller, V. C., editors, *4. COST 2102 International Training School on Cognitive Behavioural Systems*, volume 7403/2012 of *Lecture Notes on Computer Science (LNCS) 7403*, pages 35–49. Springer, Berlin Heidelberg
61) Rotili, R., Principi, E., Wöllmer, M., Squartini, S., and Schuller, B. (2012c). Conversational Speech Recognition In Non-Stationary Reverberated Environments. In Esposito, A., Vinciarelli, A., Hoffmann, R., and Müller, V. C., editors, *4. COST 2102 International Training School on Cognitive Behavioural Systems*, volume 7403/2012 of *Lecture Notes on Computer Science (LNCS)*, pages 50–59. Springer, Berlin Heidelberg
62) Rotili, R., Principi, E., Squartini, S., and Schuller, B. (2012b). Real-Time Speech Recognition in a Multi-Talker Reverberated Acoustic Scenario. In *Advanced Intelligent Computing Theories and Applications. With Aspects of Artificial Intelligence. Proc. Seventh International Conference on Intelligent Computing (ICIC 2011)*, volume 6839 of *Lecture Notes on Computer Science (LNCS)*, pages 379–386. Springer
63) Schuller, B. (2011c). Voice and Speech Analysis in Search of States and Traits. In Salah, A. A. and Gevers, T., editors, *Computer Analysis of Human Behavior*, Advances in Pattern Recognition, chapter 9, pages 227–253. Springer
64) Schuller, B. and Knaup, T. (2011). Learning and Knowledge-based Sentiment Analysis in Movie Review Key Excerpts. In Esposito, A., Esposito, A. M., Martone, R., Müller, V., and Scarpetta, G., editors, *Toward Autonomous, Adaptive, and Context-Aware Multimodal Interfaces: Theoretical and Practical Issues: Third COST 2102 International Training School, Caserta, Italy, March 15-19, 2010, Revised Selected Papers*, volume 6456/2010 of *Lecture Notes on Computer Science (LNCS)*, pages 448–472. Springer, Heidelberg, 1 edition
65) Schuller, B., Wöllmer, M., Eyben, F., and Rigoll, G. (2011g). Retrieval of Paralinguistic Information in Broadcasts. In Maybury, M. T., editor, *Multimedia Information Extraction: Advances in video, audio, and imagery extraction for search, data mining, surveillance, and authoring*, chapter 17, pages 273–288. Wiley, IEEE Computer Society Press
66) Arsić, D. and Schuller, B. (2011). Real Time Person Tracking and Behavior Interpretation in Multi Camera Scenarios Applying Homography and Coupled HMMs. In Esposito, A., Vinciarelli, A., Vicsi, K., Pelachaud, C., and Nijholt, A., editors, *Analysis of Verbal and Nonverbal Communication and Enactment: The Processing Issues, COST 2102 International Conference, Budapest, Hungary, September 7-10, 2010, Revised Selected Papers*, volume 6800/2011 of *Lecture Notes on Computer Science (LNCS)*, pages 1–18. Springer, Heidelberg
67) Schuller, B., Dibiasi, F., Eyben, F., and Rigoll, G. (2010a). Music Thumbnailing Incorporating Harmony- and Rhythm Structure. In Detyniecki, M., Leiner, U., and Nürnberger, A., editors, *Adaptive Multimedia Retrieval: 6. International Workshop, AMR 2008, Berlin, Germany, June 26-27, 2008. Revised Selected Papers*, volume 5811/2010 of *Lecture Notes in Computer Science (LNCS)*, pages 78–88. Springer, Berlin/Heidelberg
68) Batliner, A., Schuller, B., Seppi, D., Steidl, S., Devillers, L., Vidrascu, L., Vogt, T., Aharonson, V., and Amir, N. (2010a). The Automatic Recognition of Emotions in Speech. In Cowie, R., Petta, P., and Pelachaud, C., editors, *Emotion-Oriented Systems: The HUMAINE Handbook*, Cognitive Technologies, pages 71–99. Springer, 1 edition
69) Wöllmer, M., Eyben, F., Graves, A., Schuller, B., and Rigoll, G. (2010b). Improving Keyword Spotting with a Tandem BLSTM-DBN Architecture. In Sole-Casals, J. and Zaiats, V., editors, *Advances in Non-Linear Speech Processing: International Conference on Nonlinear Speech Processing, NOLISP 2009, Vic, Spain, June 25-27, 2009, Revised Selected Papers*, vol-

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70) Schuller, B., Wöllmer, M., Eyben, F., and Rigoll, G. (2009k). Spectral or Voice Quality? Feature Type Relevance for the Discrimination of Emotion Pairs. In Hancil, S., editor, *The Role of Prosody in Affective Speech*, volume 97 of *Linguistic Insights, Studies in Language and Communication*, pages 285–307. Peter Lang Publishing Group
71) Schuller, B., Eyben, F., and Rigoll, G. (2008e). Static and Dynamic Modelling for the Recognition of Non-Verbal Vocalisations in Conversational Speech. In André, E., Dybkjaer, L., Neumann, H., Pieraccini, R., and Weber, M., editors, *Perception in Multimodal Dialogue Systems: 4. IEEE Tutorial and Research Workshop on Perception and Interactive Technologies for Speech-Based Systems, PIT 2008, Kloster Irsee, Germany, June 16-18, 2008, Proceedings*, volume 5078/2008 of *Lecture Notes on Computer Science (LNCS)*, pages 99–110. Springer, Berlin/Heidelberg
72) Schuller, B., Wöllmer, M., Moosmayr, T., Ruske, G., and Rigoll, G. (2008m). Switching Linear Dynamic Models for Noise Robust In-Car Speech Recognition. In Rigoll, G., editor, *Pattern Recognition: 30. DAGM Symposium Munich, Germany, June 10-13, 2008 Proceedings*, volume 5096 of *Lecture Notes on Computer Science (LNCS)*, pages 244–253. Springer, Berlin/Heidelberg. (acceptance rate: 39 %)
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74) Grimm, M., Kroschel, K., Harris, H., Nass, C., Schuller, B., Rigoll, G., and Moosmayr, T. (2007a). On the Necessity and Feasibility of Detecting a Driver's Emotional State While Driving. In Paiva, A., Picard, R. W., and Prada, R., editors, *Affective Computing and Intelligent Interaction: Second International Conference, ACII 2007, Lisbon, Portugal, September 12-14, 2007, Proceedings*, volume 4738/2007 of *Lecture Notes on Computer Science (LNCS)*, pages 126–138. Springer, Berlin/Heidelberg
75) Vlasenko, B., Schuller, B., Wendemuth, A., and Rigoll, G. (2007b). Frame vs. Turn-Level: Emotion Recognition from Speech Considering Static and Dynamic Processing. In Paiva, A., Picard, R. W., and Prada, R., editors, *Affective Computing and Intelligent Interaction: Second International Conference, ACII 2007, Lisbon, Portugal, September 12-14, 2007, Proceedings*, volume 4738/2007 of *Lecture Notes on Computer Science (LNCS)*, pages 139–147. Springer, Berlin/Heidelberg
76) Schröder, M., Devillers, L., Karpouzis, K., Martin, J.-C., Pelachaud, C., Peter, C., Pirker, H., Schuller, B., Tao, J., and Wilson, I. (2007). What should a generic emotion markup language be able to represent? In Paiva, A., Picard, R. W., and Prada, R., editors, *Affective Computing and Intelligent Interaction: Second International Conference, ACII 2007, Lisbon, Portugal, September 12-14, 2007, Proceedings*, volume 4738/2007 of *Lecture Notes on Computer Science (LNCS)*, pages 440–451. Springer, Berlin/Heidelberg
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b) Refereed Journal Papers (425)

78) Schuller, B., Mallol-Ragolta, A., Almansa, A. P., Tsangko, I., Amin, M. M., Semertzidou, A., Christ, L., and Amiriparian, S. (2026). Affective Computing Has Changed: The Foundation Model Disruption. *npj Artificial Intelligence*, 2(16):1–10
79) Funosas, D., Massol, E., Bas, Y., Schmidt, S., Arend, D., Gebhard, A., Barbaro, L., König, S., Font, R. C., Sannier, D., Deroussen, F., Sueur, J., Roesti, C., Trilar, T., Forstmeier, W., Roger, L., Matheu, E., Guzik, P., Barataud, J., Pelozuelo, L., Puissant, S., Mueller, S., Schuller, B., Montoya, J. M., Triantafyllopoulos, A., and Cauchoix, M. (2026). A finely annotated dataset for the automated acoustic identification of European Orthoptera and Cicadidae. *Nature Scientific Data*. 31 pages, to appear (IF: 6.9 (2024))
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851) Ringeval, F., Schuller, B., Valstar, M., Cummins, N., Cowie, R., Soleymani, M., Schmitt, M., Amiriparian, S., Messner, E.-M., Tavabi, L., Song, S., Alisamir, S., Lui, S., Zhao, Z., and Pantic, M. (2019b). AVEC 2019 Workshop and Challenge: State-of-Mind, Depression with AI, and Cross-Cultural Affect Recognition. In Ringeval, F., Schuller, B., Valstar, M., Cummins, N., Cowie, R., and Pantic, M., editors, *Proceedings of the 9. International Workshop on Audio/Visual Emotion Challenge, AVEC'19, co-located with the 27. ACM International Conference on Multimedia, MM 2019*, pages 3–12, Niece, France. ACM, ACM

852) Ringeval, F., Schuller, B., Valstar, M., Cummins, N., Cowie, R., and Pantic, M. (2019a). AVEC'19: Audio/Visual Emotion Challenge and Workshop. In *Proceedings of the 27. ACM International Conference on Multimedia, MM 2019*, pages 2718–2719, Niece, France. ACM, ACM

853) Rizos, G. and Schuller, B. (2019). Modelling Sample Informativeness for Deep Affective Computing. In *Proceedings 44. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019*, pages 3482–3486, Brighton, UK. IEEE, IEEE. (acceptance rate: 46.5 %)

854) Rudovic, O., Zhang, M., Schuller, B., and Picard, R. (2019b). Multi-modal Active Learning From Human Data: A Deep Reinforcement Learning Approach. In *Proceedings of the 21. ACM International Conference on Multimodal Interaction, ICMI*, pages 6–15, Suzhou, China. ACM, ACM. ICMI 2019 best paper runner-up (acceptance rate: 37 %)

855) Rudovic, O., Schuller, B., Breazeal, C., and Picard, R. (2019a). Personalized Estimation of Engagement from Videos Using Active Learning with Deep Reinforcement Learning. In *Proceedings 2019 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 9. IEEE International Workshop on Analysis and Modeling of Faces and Gestures (AMFG 2019) in conjunction with the IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2019*, pages 217–226, Long Beach, CA. IEEE/CVF, IEEE

856) Schiele, J., Rabe, F., Schmitt, M., Glaser, M., Häring, F., Brunner, J. O., Bauer, B., Schuller, B., Traidl-Hoffmann, C., and Damialis, A. (2019). Automated Classification of Airborne Pollen using Neural Networks. In *Proceedings of the 41. Annual International Conference of the IEEE Engineering in Medicine & Biology Society, EMBC 2019*, pages 4474–4478, Berlin, Germany. IEEE, IEEE

857) Schmid, J., Schneider, M., Höß, A., and Schuller, B. (2019a). A Comparison of AI-Based Throughput Prediction for Cellular Vehicle-To-Server Communication. In *Proceedings of the 15. International Wireless Communications and Mobile Computing Conference, IWCMC*, pages 471–476, Tangier, Morocco. IEEE, IEEE. (acceptance rate: 35 %)

858) Schmid, J., Schneider, M., Höß, A., and Schuller, B. (2019b). A Deep Learning Approach for Location Independent Throughput Prediction. In *Proceedings of the 8. International Conference on Connected Vehicles and Expo, ICCVE 2019*, Graz, Austria. IEEE, IEEE

859) Schmitt, M., Cummins, N., and Schuller, B. W. (2019). Continuous Emotion Recognition in Speech – Do We Need Recurrence? In *Proceedings INTERSPEECH 2019, 20. Annual Conference of the International Speech Communication Association*, pages 2808–2812, Graz, Austria. ISCA, ISCA. (acceptance rate: 49.3 %)

860) Schmitt, M. and Schuller, B. W. (2019b). End-to-end Audio Classification with Small Datasets – Making It Work. In *Proceedings 27. European Signal Processing Conference (EUSIPCO)*, A Coruna, Spain. EURASIP, IEEE. 5 pages (acceptance rate: 58.8 %)

861) Song, M., Yang, Z., Baird, A., Parada-Cabaleiro, E., Zhang, Z., Zhao, Z., and Schuller, B. (2019). Audiovisual Analysis for Recognising Frustration during Game-Play: Introducing the Multimodal Game Frustration Database. In *Proceedings 8. biannual Conference on Affective Computing and Intelligent Interaction, ACII*, Cambridge, UK. AAAC, IEEE. (acceptance rate: 40.8 %)

862) Stappen, L., Cummins, N., Rathner, E.-M., Baumeister, H., Dineley, J., and Schuller, B. (2019b). Context Modelling Using Hierarchical Attention Networks for Sentiment and Self-Assessed Emotion Detection in Spoken Narratives. In *Proceedings 44. IEEE In-*

ternational Conference on Acoustics, Speech, and Signal Processing, ICASSP 2019, pages 6680–6684, Brighton, UK. IEEE, IEEE. (acceptance rate: 46.5 %)

863) Stappen, L., Karas, V., Cummins, N., Ringeval, F., Scherer, K., and Schuller, B. (2019c). From Speech to Facial Activity: Towards Cross-modal Sequence-to-Sequence Attention Networks. In *Proceedings IEEE 21. International Workshop on Multimedia Signal Processing, MMSP 2019*, Kuala Lumpur, Malaysia. IEEE, IEEE. 6 pages

864) Triantafyllopoulos, A., Keren, G., Wagner, J., Steiner, I., and Schuller, B. W. (2019). Towards Robust Speech Emotion Recognition using Deep Residual Networks for Speech Enhancement. In *Proceedings INTERSPEECH 2019, 20. Annual Conference of the International Speech Communication Association*, pages 1691–1695, Graz, Austria. ISCA, ISCA. (acceptance rate: 49.3 %)

865) Tzirakis, P., Nicolaou, M., Schuller, B., and Zafeiriou, S. (2019a). Time-series Clustering with Jointly Learning Deep Representations, Clusters and Temporal Boundaries. In *Proceedings 14. IEEE International Conference on Automatic Face & Gesture Recognition, FG 2019*, Lille, France. IEEE, IEEE

866) Xu, X., Deng, J., Cummins, N., Zhang, Z., Zhao, L., and Schuller, B. W. (2019b). Autonomous emotion learning in speech: A view of zero-shot speech emotion recognition. In *Proceedings INTERSPEECH 2019, 20. Annual Conference of the International Speech Communication Association*, pages 949–953, Graz, Austria. ISCA, ISCA. (acceptance rate: 49.3 %)

867) Yang, Z., Qian, K., Ren, Z., Baird, A., Zhang, Z., and Schuller, B. (2019). Acoustic Scene Classification via Wavelet PacketTransformation. In *Proceedings 7. China Conference on Sound and Music Technology, CSMT 2019*, pages 133–143, Harbin, China. Shanghai Computer Music Association, Springer

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869) Zhao, Z., Bao, Z., Zhang, Z., Cummins, N., Wang, H., and Schuller, B. W. (2019a). Attention-enhanced Connectionist Temporal Classification for Discrete Speech Emotion Recognition. In *Proceedings INTERSPEECH 2019, 20. Annual Conference of the International Speech Communication Association*, pages 206–210, Graz, Austria. ISCA, ISCA. (acceptance rate: 49.3 %)

870) Schuller, B. (2018d). Reading the Author and Speaker: Towards a Holistic Approach on Automatic Assessment of What is in One's Words. In Gelbukh, A., editor, *Computational Linguistics and Intelligent Text Processing. Proceedings 18. International Conference on Intelligent Text Processing and Computational Linguistics, CICLing 2017, Budapest, Hungary, 17.-23.04.2017*, volume 10762 of *Lecture Notes in Computer Science (LNCS)*, pages 275–288. Springer, Berlin/Heidelberg

871) Schuller, B. W., Steidl, S., Batliner, A., Marschik, P. B., Baumeister, H., Dong, F., Hantke, S., Pokorny, F., Rathner, E.-M., Bartl-Pokorny, K. D., Einspieler, C., Zhang, D., Baird, A., Amiriparian, S., Qian, K., Ren, Z., Schmitt, M., Tzirakis, P., and Zafeiriou, S. (2018b). The INTERSPEECH 2018 Computational Paralinguistics Challenge: Atypical & Self-Assessed Affect, Crying & Heart Beats. In *Proceedings INTERSPEECH 2018, 19. Annual Conference of the International Speech Communication Association*, pages 122–126, Hyderabad, India. ISCA, ISCA. (acceptance rate: 54 %)

872) Amiriparian, S., Freitag, M., Cummins, N., Gerczuk, M., Pugachevskiy, S., and Schuller, B. W. (2018b). A Fusion of Deep Convolutional Generative Adversarial Networks and Sequence to Sequence Autoencoders for Acoustic Scene Classification. In *Proceedings 26. European Signal Processing Conference (EUSIPCO)*, pages 977–981, Rome, Italy. EURASIP, IEEE

873) Amiriparian, S., Gerczuk, M., Ottl, S., Cummins, N., Pugachevskiy, S., and Schuller, B. (2018c). Bag-of-Deep-Features: Noise-Robust Deep Feature Representations for Audio Analysis. In *Proceedings 31. International Joint Conference on Neural Networks (IJCNN)*, pages 1–7, Rio de Janeiro, Brazil. INNS/IEEE, IEEE

874) Amiriparian, S., Schmitt, M., Cummins, N., Qian, K., Dong, F., and Schuller, B. (2018e). Deep Unsupervised Representation Learning for Abnormal Heart Sound Classification. In *Proceedings of the 40. Annual International Conference of the IEEE Engineering in Medicine & Biology Society, EMBC 2018*, pages 4776–4779, Honolulu, HI. IEEE, IEEE

875) Amiriparian, S., Baird, A., Julka, S., Alcorn, A., Ottl, S., Petrović, S., Ainger, E., Cummins, N., and Schuller, B. (2018a). Recognition of Echolalic Autistic Child Vocalisations Utilising Convolutional Recurrent Neural Networks. In *Proceedings INTERSPEECH 2018, 19. Annual Conference of the International Speech Communication Association*, pages 2334–2338, Hyderabad, India. ISCA, ISCA. (acceptance rate: 54 %)

876) Baird, A., Hantke, S., and Schuller, B. (2018b). Responsible and Representative Multimodal Data Acquisition and Analysis: On Auditability, Benchmarking, Confidence, Data-Reliance & Explainability. In *Proceedings of Legal and Ethical Issues Workshop, satellite of the 11th Language Resources and Evaluation Conference (LREC 2018)*, Miyazaki, Japan. ELRA, ELRA. 8 pages, to appear

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Speech. In *Proceedings INTERSPEECH 2018, 19. Annual Conference of the International Speech Communication Association*, pages 2863–2867, Hyderabad, India. ISCA, ISCA. (acceptance rate: 54 %)

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879) Cummins, N., Amiriparian, S., Ottl, S., Gerczuk, M., Schmitt, M., and Schuller, B. (2018a). Multimodal Bag-of-Words for Cross Domains Sentiment Analysis. In *Proceedings 43. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018*, pages 4954–4958, Calgary, Canada. IEEE, IEEE. (acceptance rate: 49.7 %)

880) Demir, F., Sengur, A., Cummins, N., Amiriparian, S., and Schuller, B. (2018). Low Level Texture Features for Snore Sound Discrimination. In *Proceedings of the 40. Annual International Conference of the IEEE Engineering in Medicine & Biology Society, EMBC 2018*, pages 413–416, Honolulu, HI. IEEE, IEEE

881) Guo, Y., Han, J., Zhang, Z., Schuller, B., and Ma, Y. (2018). Exploring a New Method for Food Likability Rating Based on DT-CWT Theory. In *Proceedings of the 20. ACM International Conference on Multimodal Interaction, ICMI*, pages 569–573, Boulder, CO. ACM, ACM

882) Hagerer, G., Cummins, N., Eyben, F., and Schuller, B. (2018). Robust Laughter Detection for Mobile Wellbeing Sensing on Wearable Devices . In *Proceedings of the 8. International Conference on Digital Health, DH 2018*, pages 156–157, Lyon, France. ACM, ACM

883) Han, J., Zhang, Z., Schmitt, M., Ren, Z., Ringeval, F., and Schuller, B. (2018e). Bags in Bag: Generating Context-Aware Bags for Tracking Emotions from Speech. In *Proceedings INTERSPEECH 2018, 19. Annual Conference of the International Speech Communication Association*, pages 3082–3086, Hyderabad, India. ISCA, ISCA. awarded a student travel grant (acceptance rate: 54 %)

884) Han, J., Zhang, Z., Ren, Z., Ringeval, F., and Schuller, B. (2018d). Towards Conditional Adversarial Training for Prediciting Emotions from Speech. In *Proceedings 43. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018*, pages 6822–6826, Calgary, Canada. IEEE, IEEE. awarded a student travel grant (acceptance rate: 49.7 %)

885) Han, W., Ruan, H., Chen, X., Wang, Z., Li, H., and Schuller, B. (2018f). Towards Temporal Modelling of Categorical Speech Emotion Recognition. In *Proceedings INTERSPEECH 2018, 19. Annual Conference of the International Speech Communication Association*, pages 932–936, Hyderabad, India. ISCA, ISCA. (acceptance rate: 54 %)

886) Han, J., Schmitt, M., and Schuller, B. (2018a). You Sound Like Your Counterpart: Interpersonal Speech Analysis. In Karpov, A., Jokisch, O., and Potapova, R., editors, *Proceedings 20. International Conference on Speech and Computer, SPECOM 2018*, volume 11096 of *LNCS*, pages 188–197, Leipzig, Germany. ISCA, Springer

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888) Hantke, S., Cohrs, C., Schmitt, M., Tannert, B., Lütkebohmert, F., Detmers, M., Schelhowe, H., and Schuller, B. (2018c). Introducing an Emotion-Driven Assistance System for Cognitively Impaired Individuals. In Miesenberger, K. and Kouroupetroglou, G., editors, *Computers Helping People with Special Needs. Proceedings 16. International Conference on Computers Helping People with Special Needs, ICCHP*, LNCS, pages 486–494, Linz, Austria. Springer

889) Hantke, S., Schmitt, M., Tzirakis, P., and Schuller, B. (2018g). EAT – The ICMI 2018 Eating Analysis and Tracking Challenge. In *Proceedings of the 20. ACM International Conference on Multimodal Interaction, ICMI*, pages 559–563, Boulder, CO. ACM, ACM

890) Hantke, S., Appel, T., and Schuller, B. (2018b). The Inclusion of Gamification Solutions to Enhance User Enjoyment on Crowdsourcing Platforms. In *Proceedings of the first Asian Conference on Affective Computing and Intelligent Interaction (ACII Asia 2018)*, Beijing, China. AAAC, IEEE. 6 pages

891) Hantke, S., Olenyi, T., Hausner, C., and Schuller, B. (2018f). VoiLA: An Online Intelligent Speech Analysis and Collection Platform. In *Proceedings of the first Asian Conference on Affective Computing and Intelligent Interaction (ACII Asia 2018)*, Beijing, China. AAAC, IEEE. 5 pages (invited as one of 8 % best papers for the International Journal of Automation and Computing, Springer, oral acceptance rate: 29 %)

892) Hantke, S., Cummins, N., and Schuller, B. (2018d). What is my dog trying to tell me? The automatic recognition of the context and perceived emotion of dog barks. In *Proceedings 43. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018*, pages 5134–5138, Calgary, Canada. IEEE, IEEE. (acceptance rate: 49.7 %)

893) Huang, D.-Y., Zhao, S., Schuller, B. W., Yao, H., Tao, J., Xu, M., Xie, L., Huang, Q., and Yang, J. (2018b). ASMMC-MMAC 2018: The Joint Workshop of 4. the Workshop on Affective Social Multimedia Computing and first Multi-Modal Affective Computing of Large-Scale Multimedia Data Workshop. In *Proceedings of the 26. ACM International Conference on Multimedia, MM 2018*, pages 2120–2121, Seoul, South Korea. ACM, ACM

894) Jomrich, F., Schmid, J., Knapp, S., Höß, A., Steinmetz, R., and Schuller, B. (2018). Analysing communication requirements for crowdsourced backend generation of HD Maps used in automated driving. In *Proceedings 2018 IEEE Vehicular Networking Conference (VNC 2018)*, Taipei, Taiwan. IEEE, IEEE. 8 pages

895) Keren, G., Sabato, S., and Schuller, B. (2018f). Fast Single-Class Classification and the Principle of Logit Separation. In *Proceedings International Conference on Data Mining, ICDM 2018*, pages 227–236, Singapore, Singapore. IEEE, IEEE. (best student paper award, full paper acceptance rate: 8.86 %)

896) Keren, G., Han, J., and Schuller, B. (2018c). Scaling Speech Enhancement in Unseen Environments with Noise Embeddings. In *Proceedings The 5. International Workshop on Speech Processing in Everyday Environments, CHiME 2018, held in conjunction with Interspeech 2018*, pages 25–29, Hyderabad, India. ISCA, ISCA

897) Kohlschein, C., Klischies, D., Meisen, T., Schuller, B. W., and Werner, C. J. (2018). Automatic Processing of Clinical Aphasia Data collected during Diagnosis Sessions: Challenges and Prospects. In Kokkinakis, D., editor, *Proceedings of Resources and Processing of linguistic, para-linguistic and extra-linguistic Data from people with various forms of cognitive/psychiatric impairments (RaPID-2 2018), satellite of the 11th Language Resources and Evaluation Conference (LREC 2018)*, pages 11–18, Miyazaki, Japan. ELRA, ELRA

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899) Pandit, V., Schmitt, M., Cummins, N., Graf, F., Paletta, L., and Schuller, B. (2018b). How Good Is Your Model 'Really'? On 'Wildness' of the In-the-wild Speech-based Affect Recognisers. In Karpov, A., Jokisch, O., and Potapova, R., editors, *Proceedings 20. International Conference on Speech and Computer, SPECOM 2018*, volume 11096 of *LNCS*, pages 490–500, Leipzig, Germany. ISCA, Springer

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901) Parada-Cabaleiro, E., Costantini, G., Batliner, A., Baird, A., and Schuller, B. (2018a). Categorical vs Dimensional Perception of Italian Emotional Speech. In *Proceedings INTERSPEECH 2018, 19. Annual Conference of the International Speech Communication Association*, pages 3638–3642, Hyderabad, India. ISCA, ISCA. (acceptance rate: 54 %)

902) Parada-Cabaleiro, E., Schmitt, M., Batliner, A., and Schuller, B. (2018c). Musical-Linguistic Annotations of Il Lauro Secco. In *Proceedings 19. International Society for Music Information Retrieval Conference, ISMIR 2018*, pages 461–467, Paris, France. ISMIR, ISMIR

903) Parada-Cabaleiro, E., Schmitt, M., Batliner, A., Hantke, S., Costantini, G., Scherer, K., and Schuller, B. (2018b). Identifying Emotions in Opera Singing: Implications of Adverse Acoustic Conditions. In *Proceedings 19. International Society for Music Information Retrieval Conference, ISMIR 2018*, pages 376–382, Paris, France. ISMIR, ISMIR

904) Rathner, E.-M., Djamali, J., Terhorst, Y., Schuller, B., Cummins, N., Salamon, G., Hunger-Schoppe, C., and Baumeister, H. (2018a). How did you like 2017? Detection of language markers of depression and narcissism in personal narratives. In *Proceedings INTERSPEECH 2018, 19. Annual Conference of the International Speech Communication Association*, pages 3388–3392, Hyderabad, India. ISCA, ISCA. (acceptance rate: 54 %)

905) Rathner, E.-M., Terhorst, Y., Cummins, N., Schuller, B., and Baumeister, H. (2018b). State of mind: Classification through self-reported affect and word use in speech. In *Proceedings INTERSPEECH 2018, 19. Annual Conference of the International Speech Communication Association*, pages 267–271, Hyderabad, India. ISCA, ISCA. (acceptance rate: 54 %)

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907) Ren, Z., Cummins, N., Han, J., Schnieder, S., Krajewski, J., and Schuller, B. (2018a). Evaluation of the Pain Level from Speech: Introducing a Novel Pain Database and Benchmarks. In *Proceedings 13th ITG Conference on Speech Communication*, volume 282 of *ITG-Fachbericht*, pages 56–60, Oldenburg, Germany. ITG/VDE, IEEE/VDE

908) Ren, Z., Cummins, N., Pandit, V., Han, J., Qian, K., and Schuller, B. (2018b). Learning Image-based Representations for Heart Sound Classification. In *Proceedings of the 8. International Conference on Digital Health, DH 2018*, pages 143–147, Lyon, France. ACM, ACM

909) Ringeval, F., Schuller, B., Valstar, M., Cowie, R., Kaya, H., Schmitt, M., Amiriparian, S., Cummins, N., Lalanne, D., Michaud, A., Ciftci, E., Gülec, H., Salah, A. A., and Pantic, M. (2018a). AVEC 2018 Workshop and Challenge: Bipolar Disorder and Cross-Cultural Affect Recognition. In Ringeval, F., Schuller, B., Valstar, M., Cowie, R., and Pantic, M., editors, *Proceedings of the 8. International Workshop on Audio/Visual*

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913) Sengur, A., Demir, F., Lu, H., Amiriparian, S., Cummins, N., and Schuller, B. (2018). Compact Bilinear Deep Features for Environmental Sound Recognition. In *Proceedings International Conference on Artificial Intelligence and Data Mining, IDAP 2018*, Malatya, Turkey. IEEE, IEEE. 5 pages

914) Sertolli, B., Cummins, N., Sengur, A., and Schuller, B. (2018). Deep End-to-End Representation Learning for Food Type Recognition from Speech. In *Proceedings of the 20. ACM International Conference on Multimodal Interaction, ICMI*, pages 574–578, Boulder, CO. ACM, ACM

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916) Tzirakis, P., Zhang, J., and Schuller, B. (2018b). End-to-End Speech Emotion Recognition using Deep Neural Networks. In *Proceedings 43. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2018*, pages 5089–5093, Calgary, Canada. IEEE, IEEE. awarded a student travel grant (acceptance rate: 49.7 %)

917) Vögel, H.-J., Süß, C., Ghaderi, V., Chadowitz, R., André, E., Cummins, N., Schuller, B., Härri, J., Troncy, R., Huet, B., Önen, M., Ksentini, A., Conradt, J., Adi, A., Zadorojniy, A., Terken, J., Beskow, J., Morrison, A., Eng, K., Eyben, F., Moubayed, S. A., and Müller, S. (2018). Emotion-awareness for intelligent Vehicle Assistants: a research agenda. In Stolle, R., Broy, M., and Scholz, S., editors, *Proceedings First Workshop on Software Engineering for AI in Autonomous Systems, SEFAIAS, co-located with the 40. International Conference on Software Engineering, ICSE*, pages 11–15, Gothenburg, Sweden. ACM, ACM

918) Wagner, J., Baur, T., Schiller, D., Zhang, Y., Schuller, B., Valstar, M., and André[1], E. (2018a). Show Me What You've Learned: Applying Cooperative Machine Learning for the Semi-Automated Annotation of Social Signals. In *Proceedings of the 2. Workshop on Explainable Artificial Intelligence (XAI 2018) as part of the Fairness, Interpretability, and Explainability Federation of Workshops of the 27. International Joint Conference on Artificial Intelligence and the 23. European Conference on Artificial Intelligence, IJCAI-ECAI 2018*, Stockholm, Sweden. IJCAI/AAAI. 7 pages

919) Wang, J., Strömfelt, H., and Schuller, B. W. (2018). A CNN-GRU Approach to Capture Time-Frequency Pattern Interdependence for Snore Sound Classification. In *Proceedings 26. European Signal Processing Conference (EUSIPCO)*, pages 997–1001, Rome, Italy. EURASIP, IEEE

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921) Zhang, Z., Han, J., Qian, K., and Schuller, B. (2018f). Evolving Learning for Analysing Mood-Related Infant Vocalisation. In *Proceedings INTERSPEECH 2018, 19. Annual Conference of the International Speech Communication Association*, pages 142–146, Hyderabad, India. ISCA, ISCA. (acceptance rate: 54 %)

922) Zhao, S., Ding, G., Huang, Q., Chua, T.-S., Schuller, B. W., and Keutzer, K. (2018). Affective Image Content Analysis: A Comprehensive Survey. In *Proceedings of the 27. International Joint Conference on Artificial Intelligence, IJCAI 2018*, pages 5534–5541, Stockholm, Sweden. IJCAI/AAAI. (acceptance rate survey track: 35 %)

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1000) Marchi, E., Tonelli, D., Xu, X., Ringeval, F., Deng, J., Squartini, S., and Schuller, B. (2016d). The UP System for the 2016 DCASE Challenge using Deep Recurrent Neural Network and Multiscale Kernel Subspace Learning. In *Proceedings of the Detection and Classification of Acoustic Scenes and Events 2016 IEEE AASP Challenge Workshop (DCASE 2016), satellite to EUSIPCO 2016*, Budapest, Hungary. EUSIPCO, IEEE. 1 page

1001) Mousa, A. E.-D. and Schuller, B. (2016). Deep Bidirectional Long Short-Term Memory Recurrent Neural Networks for Grapheme-to-Phoneme Conversion utilizing Complex Many-to-Many Alignments. In *Proceedings INTERSPEECH 2016, 17. Annual Conference of the International Speech Communication Association*, pages 2836–2840, San Francisco, CA. ISCA, ISCA. (acceptance rate: 50 %)

1002) Pokorny, F. B., Marschik, P. B., Einspieler, C., and Schuller, B. W. (2016a). Does She Speak RTT? Towards an Earlier Identification of Rett Syndrome Through Intelligent Pre-linguistic Vocalisation Analysis. In *Proceedings INTERSPEECH 2016, 17. Annual Conference of the International Speech Communication Association*, pages 1953–1957, San Francisco, CA. ISCA, ISCA. (acceptance rate: 50 %)

1003) Pokorny, F. B., Peharz, R., Roth, W., Zohrer, M., Pernkopf, F., Marschik, P. B., and Schuller, B. W. (2016b). Manual Versus Automated: The Challenging Routine of Infant Vocalisation Segmentation in Home Videos to Study Neuro(mal)development. In *Proceedings INTERSPEECH 2016, 17. Annual Conference of the International Speech Communication Association*, pages 2997–3001, San Francisco, CA. ISCA, ISCA.

(acceptance rate: 50 %)

1004) Qian, K., Janott, C., Zhang, Z., Heiser, C., and Schuller, B. (2016). Wavelet Features for Classification of VOTE Snore Sounds. In *Proceedings 41. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2016*, pages 221–225, Shanghai, China. IEEE, IEEE. (acceptance rate: 45 %)

1005) Pantic, M., Evers, V., Deisenroth, M., Merino, L., and Schuller, B. (2016). Social and Affective Robotics Tutorial. In *Proceedings of the 24. ACM International Conference on Multimedia, MM 2016*, pages 1477–1478, Amsterdam, The Netherlands. ACM, ACM. (acceptance rate short paper: 30 %)

1006) Pohjalainen, J., Ringeval, F., Zhang, Z., and Schuller, B. (2016). Spectral and Cepstral Audio Noise Reduction Techniques in Speech Emotion Recognition. In *Proceedings of the 24. ACM International Conference on Multimedia, MM 2016*, pages 670–674, Amsterdam, The Netherlands. ACM, ACM. (acceptance rate short paper: 30 %)

1007) Ringeval, F., Marchi, E., Grossard, C., Xavier, J., Chetouani, M., Cohen, D., and Schuller, B. (2016). Automatic Analysis of Typical and Atypical Encoding of Spontaneous Emotion in the Voice of Children. In *Proceedings INTERSPEECH 2016, 17. Annual Conference of the International Speech Communication Association*, pages 1210–1214, San Francisco, CA. ISCA, ISCA. (acceptance rate: 50 %)

1008) Rynkiewicz, A., Schuller, B., Marchi, E., Piana, S., Camurri, A., Lassalle, A., and Baron-Cohen, S. (2016b). An Investigation of the ?Female Camouflage Effect' in Autism Using a New Computerized Test Showing Sex/Gender Differences during ADOS-2. In *Proceedings 15. Annual International Meeting For Autism Research (IMFAR 2016)*, Baltimore, MD. International Society for Autism Research (INSAR), INSAR. 1 page

1009) Sagha, H., Deng, J., Gavryukova, M., Han, J., and Schuller, B. (2016a). Cross Lingual Speech Emotion Recognition using Canonical Correlation Analysis on Principal Component Subspace. In *Proceedings 41. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2016*, pages 5800–5804, Shanghai, China. IEEE, IEEE. (acceptance rate: 45 %)

1010) Sagha, H., Matejka, P., Gavryukova, M., Povolny, F., Marchi, E., and Schuller, B. (2016c). Enhancing multilingual recognition of emotion in speech by language identification. In *Proceedings INTERSPEECH 2016, 17. Annual Conference of the International Speech Communication Association*, pages 2949–2953, San Francisco, CA. ISCA, ISCA. (acceptance rate: 50 %)

1011) Sánchez-Rada, J. F., Schuller, B., Patti, V., Buitelaar, P., Vulcu, G., Burkhardt, F., Clavel, C., Petychakis, M., and Iglesias, C. A. (2016). Towards a Common Linked Data Model for Sentiment and Emotion Analysis. In Sánchez-Rada, J. F. and Schuller, B., editors, *Proceedings 6. International Workshop on Emotion and Sentiment Analysis (ESA 2016), satellite of the 10. Language Resources and Evaluation Conference (LREC 2016)*, pages 48–54, Portoroz, Slovenia. ELRA, ELRA. (acceptance rate: 42 % for long papers)

1012) Schmitt, M., Janott, C., Pandit, V., Qian, K., Heiser, C., Hemmert, W., and Schuller, B. (2016a). A Bag-of-Audio-Words Approach for Snore Sounds' Excitation Localisation. In *Proceedings 12th ITG Conference on Speech Communication*, volume 267 of *ITG-Fachbericht*, pages 230–234, Paderborn, Germany. ITG/VDE, IEEE/VDE. nominated for best student paper award (4 nominations for 2 awards)

1013) Schmitt, M., Ringeval, F., and Schuller, B. (2016c). At the Border of Acoustics and Linguistics: Bag-of-Audio-Words for the Recognition of Emotions in Speech. In *Proceedings INTERSPEECH 2016, 17. Annual Conference of the International Speech Communication Association*, pages 495–499, San Francisco, CA. ISCA, ISCA. (acceptance rate: 50 %)

1014) Schmitt, M., Marchi, E., Ringeval, F., and Schuller, B. (2016b). Towards Cross-lingual Automatic Diagnosis of Autism Spectrum Condition in Children's Voices. In *Proceedings 12th ITG Conference on Speech Communication*, volume 267 of *ITG-Fachbericht*, pages 264–268, Paderborn, Germany. ITG/VDE, IEEE/VDE

1015) Telespan, M. and Schuller, B. (2016). Audio Watermarking Based on Empirical Mode Decomposition and Beat Detection. In *Proceedings 41. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2016*, pages 2124–2128, Shanghai, China. IEEE, IEEE. (acceptance rate: 45 %)

1016) Trigeorgis, G., Ringeval, F., Brückner, R., Marchi, E., Nicolaou, M., Schuller, B., and Zafeiriou, S. (2016b). Adieu Features? End-to-End Speech Emotion Recognition using a Deep Convolutional Recurrent Network. In *Proceedings 41. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2016*, pages 5200–5204, Shanghai, China. IEEE, IEEE. winner of the IEEE Spoken Language Processing Student Travel Grant 2016 (acceptance rate: 45 %)

1017) Trigeorgis, G., Nicolaou, M. A., Schuller, B., and Zafeiriou, S. (2016a). Deep Canonical Time Warping. In *Proceedings IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2016*, pages 5110–5118, Las Vegas, NV. IEEE, IEEE. (acceptance rate: ~25 %)

1018) Valstar, M., Gratch, J., Schuller, B., Ringeval, F., Lalanne, D., Torres Torres, M., Scherer, S., Stratou, G., Cowie, R., and Pantic, M. (2016d). AVEC 2016: Depression, Mood, and Emotion Recognition Workshop and Challenge. In Valstar, M., Gratch, J., Schuller, B., Ringeval, F., Cowie, R., and Pantic, M., editors, *Proceedings of the 6. International Workshop on Audio/Visual Emotion Challenge, AVEC'16, co-*

located with the 24. ACM International Conference on Multimedia, MM 2016, pages 3–10, Amsterdam, The Netherlands. ACM, ACM

1019) Valstar, M., Pelachaud, C., Heylen, D., Cafaro, A., Dermouche, S., Ghitulescu, A., André, E., Baur, T., Wagner, J., Durieu, L., Aylett, M., Blaise, P., Coutinho, E., Schuller, B., Zhang, Y., Theune, M., and van Waterschoot, J. (2016e). Ask Alice; an Artificial Retrieval of Information Agent. In Morency, L.-P., Busso, C., and Pelachaud, C., editors, *Proceedings of the 18. ACM International Conference on Multimodal Interaction, ICMI*, pages 419–420, Tokyo, Japan. ACM, ACM

1020) Valstar, M., Gratch, J., Schuller, B., Ringeval, F., Cowie, R., and Pantic, M. (2016b). Summary for AVEC 2016: Depression, Mood, and Emotion Recognition Workshop and Challenge. In *Proceedings of the 24. ACM International Conference on Multimedia, MM 2016*, pages 1483–1484, Amsterdam, The Netherlands. ACM, ACM. (acceptance rate short paper: 30 %)

1021) Vlasenko, B., Schuller, B., and Wendemuth, A. (2016). Tendencies Regarding the Effect of Emotional Intensity in Inter Corpus Phoneme-Level Speech Emotion Modelling. In *Proceedings 2016 IEEE International Workshop on Machine Learning for Signal Processing, MLSP*, pages 1–6, Salerno, Italy. IEEE, IEEE

1022) Wegener, R., Kohlschein, C., Jeschke, S., and Schuller, B. (2016). Automatic Detection of Textual Triggers of Reader Emotion in Short Stories. In Sánchez-Rada, J. F. and Schuller, B., editors, *Proceedings 6. International Workshop on Emotion and Sentiment Analysis (ESA 2016), satellite of the 10. Language Resources and Evaluation Conference (LREC 2016)*, pages 80–84, Portoroz, Slovenia. ELRA, ELRA. (acceptance rate: 74 %)

1023) Weninger, F., Ringeval, F., Marchi, E., and Schuller, B. (2016a). Discriminatively trained recurrent neural networks for continuous dimensional emotion recognition from audio. In *Proceedings of the 25. International Joint Conference on Artificial Intelligence, IJCAI 2016*, pages 2196–2202, New York City, NY. IJCAI/AAAI. (acceptance rate: 25 %)

1024) Weninger, F., Ringeval, F., Marchi, E., and Schuller, B. (2016b). Discriminatively Trained Recurrent Neural Networks for Continuous Dimensional Emotion Recognition from Audio (Extended Abstract). In Friedrich, G., Helmert, M., and Wotawa, F., editors, *KI 2016: Advances in Artificial Intelligence 39. Annual German Conference on AI*, volume LNCS Volume 9904/2016, pages 310–315, Klagenfurt, Austria. GfI / ÖGAI, Springer. (acceptance rate: 45 %)

1025) Xu, X., Deng, J., Gavryukova, M., Zhang, Z., Zhao, L., and Schuller, B. (2016). Multiscale Kernel Locally Penalised Discriminant Analysis Exemplified by Emotion Recognition in Speech. In Morency, L.-P., Busso, C., and Pelachaud, C., editors, *Proceedings of the 18. ACM International Conference on Multimodal Interaction, ICMI*, pages 233–237, Tokyo, Japan. ACM, ACM

1026) Zhang, Z., Ringeval, F., Dong, B., Coutinho, E., Marchi, E., and Schuller, B. (2016d). Enhanced Semi-Supervised Learning for Multimodal Emotion Recognition. In *Proceedings 41. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2016*, pages 5185–5189, Shanghai, China. IEEE, IEEE. (acceptance rate: 45 %)

1027) Zhang, Z., Ringeval, F., Han, J., Deng, J., Marchi, E., and Schuller, B. (2016e). Facing Realism in Spontaneous Emotion Recognition from Speech: Feature Enhancement by Autoencoder with LSTM Neural Networks. In *Proceedings INTERSPEECH 2016, 17. Annual Conference of the International Speech Communication Association*, pages 3593–3597, San Francisco, CA. ISCA, ISCA. (acceptance rate: 50 %)

1028) Zhang, Y., Weninger, F., Batliner, A., Hönig, F., and Schuller, B. (2016a). Language Proficiency Assessment of English L2 Speakers Based on Joint Analysis of Prosody and Native Language. In Morency, L.-P., Busso, C., and Pelachaud, C., editors, *Proceedings of the 18. ACM International Conference on Multimodal Interaction, ICMI*, pages 274–278, Tokyo, Japan. ACM, ACM

1029) Zhang, Y., Weninger, F., Ren, Z., and Schuller, B. (2016b). Sincerity and Deception in Speech: Two Sides of the Same Coin? A Transfer- and Multi-Task Learning Perspective. In *Proceedings INTERSPEECH 2016, 17. Annual Conference of the International Speech Communication Association*, pages 2041–2045, San Francisco, CA. ISCA, ISCA. (acceptance rate: 50 %)

1030) Zhang, Y., Zhou, Y., Shen, J., and Schuller, B. (2016c). Semi-autonomous Data Enrichment Based on Cross-task Labelling of Missing Targets for Holistic Speech Analysis. In *Proceedings 41. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2016*, pages 6090–6094, Shanghai, China. IEEE, IEEE. (acceptance rate: 45 %)

1031) Zhang, Y. and Schuller, B. (2016). Towards Human-Like Holisitc Machine Perception of Speaker States and Traits. In *Proceedings of the Human-Like Computing Machine Intelligence Workshop, MI20-HLC*, Windsor, U. K. Springer. 3 pages

1032) Deng, J., Xu, X., Zhang, Z., Frühholz, S., Grandjean, D., and Schuller, B. (2016b). Fisher Kernels on Phase-based Features for Speech Emotion Recognition. In *Proceedings of the Seventh International Workshop on Spoken Dialogue Systems (IWSDS)*, Saariselkä, Finland. Springer. 6 pages

1033) Schuller, B., Vlasenko, B., Eyben, F., Wöllmer, M., Stuhlsatz, A., Wendemuth, A., and Rigoll, G. (2015f). Cross-Corpus Acoustic Emotion Recognition: Variances and Strategies (Extended Abstract). In *Proceedings 6. biannual Conference on Affective Computing and Intelligent Interaction (ACII 2015)*, pages

470–476, Xi'an, China. AAAC, IEEE. invited for the Special Session on Most Influential Articles in IEEE Transactions on Affective Computing

1034) Schuller, B., Marchi, E., Baron-Cohen, S., Lassalle, A., O'Reilly, H., Pigat, D., Robinson, P., Davies, I., Baltrusaitis, T., Mahmoud, M., Golan, O., Friedenson, S., Tal, S., Newman, S., Meir, N., Shillo, R., Camurri, A., Piana, S., Staglianò, A., Bölte, S., Lundqvist, D., Berggren, S., Baranger, A., Sullings, N., Sezgin, M., Alyuz, N., Rynkiewicz, A., Ptaszek, K., and Ligmann, K. (2015a). Recent developments and results of ASC-Inclusion: An Integrated Internet-Based Environment for Social Inclusion of Children with Autism Spectrum Conditions. In Paletta, L., Schuller, B., Robinson, P., and Sabouret, N., editors, *Proceedings of the of the 3. International Workshop on Intelligent Digital Games for Empowerment and Inclusion (IDGEI 2015) as part of the 20. ACM International Conference on Intelligent User Interfaces, IUI 2015*, Atlanta, GA. ACM, ACM. 9 pages, best paper award (long talk acceptance rate: 36 %)

1035) Schuller, B. (2015h). Speech Analysis in the Big Data Era. In *Text, Speech, and Dialogue – Proceedings of the 18. International Conference on Text, Speech and Dialogue, TSD 2015*, volume 9302 of *Lecture Notes in Computer Science (LNCS)*, pages 3–11. Springer. satellite event of INTERSPEECH 2015, invited contribution (acceptance rate: 50 %)

1036) Schuller, B., Steidl, S., Batliner, A., Hantke, S., Hönig, F., Orozco-Arroyave, J. R., Nöth, E., Zhang, Y., and Weninger, F. (2015c). The INTERSPEECH 2015 Computational Paralinguistics Challenge: Degree of Nativeness, Parkinson's & Eating Condition. In *Proceedings INTERSPEECH 2015, 16. Annual Conference of the International Speech Communication Association*, pages 478–482, Dresden, Germany. ISCA, ISCA. (acceptance rate: 51 %)

1037) Azaïs, L., Payan, A., Sun, T., Vidal, G., Zhang, T., Coutinho, E., Eyben, F., and Schuller, B. (2015). Does my Speech Rock? Automatic Assessment of Public Speaking Skills. In *Proceedings INTERSPEECH 2015, 16. Annual Conference of the International Speech Communication Association*, pages 2519–2523, Dresden, Germany. ISCA, ISCA. (acceptance rate: 51 %)

1038) Coutinho, E., Trigeorgis, G., Zafeiriou, S., and Schuller, B. (2015). Automatically Estimating Emotion in Music with Deep Long-Short Term Memory Recurrent Neural Networks. In Larson, M., Ionescu, B., Sj?berg, M., Anguera, X., Poignant, J., Riegler, M., Eskevich, M., Hauff, C., Sutcliffe, R., Jones, G. J., Yang, Y.-H., Soleymani, M., and Papadopoulos, S., editors, *Proceedings MediaEval 2015 Multimedia Benchmark Workshop, satellite of Interspeech 2015*, volume 1436, Wurzen, Germany. CEUR. 3 pages

1039) Deng, J., Zhang, Z., Eyben, F., and Schuller, B. (2015). Autoencoder-based Unsupervised Domain Adaptation for Speech Emotion Recognition. In *Proceedings 40. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2015*, pages 1068–1072, Brisbane, Australia. IEEE, IEEE

1040) Eyben, F., Huber, B., Marchi, E., Schuller, D., and Schuller, B. (2015a). Robust Real-time Affect Analysis and Speaker Characterisation on Mobile Devices. In *Proceedings 6. biannual Conference on Affective Computing and Intelligent Interaction (ACII 2015)*, pages 778–780, Xi'an, China. AAAC, IEEE. (acceptance rate: 55 %))

1041) Feraru, S., Schuller, D., and Schuller, B. (2015). Cross-Language Acoustic Emotion Recognition: An Overview and Some Tendencies. In *Proceedings 6. biannual Conference on Affective Computing and Intelligent Interaction (ACII 2015)*, pages 125–131, Xi'an, China. AAAC, IEEE. (acceptance rate oral: 28 %))

1042) Gentsch, K., Coutinho, E., Eyben, F., Schuller, B., and Scherer, K. R. (2015). Classifying Emotion-Antecedent Appraisal in Brain Activity using Machine Learning Methods. In *Proceedings of the International Society for Research on Emotions Conference (ISRE 2015)*, Geneva, Switzerland. ISRE, ISRE. 1 page

1043) Hantke, S., Eyben, F., Appel, T., and Schuller, B. (2015). iHEARu-PLAY: Introducing a game for crowdsourced data collection for affective computing. In *Proceedings 1. International Workshop on Automatic Sentiment Analysis in the Wild (WASA 2015) held in conjunction with the 6. biannual Conference on Affective Computing and Intelligent Interaction (ACII 2015)*, pages 891–897, Xi'an, China. AAAC, IEEE. (acceptance rate: 60 %)

1044) Marchi, E., Vesperini, F., Eyben, F., Squartini, S., and Schuller, B. (2015c). A Novel Approach for Automatic Acoustic Novelty Detection Using a Denoising Autoencoder with Bidirectional LSTM Neural Networks. In *Proceedings 40. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2015*, pages 1996–2000, Brisbane, Australia. IEEE, IEEE

1045) Marchi, E., Vesperini, F., Weninger, F., Eyben, F., Squartini, S., and Schuller, B. (2015d). Non-Linear Prediction with LSTM Recurrent Neural Networks for Acoustic Novelty Detection. In *Proceedings 2015 International Joint Conference on Neural Networks (IJCNN)*, Killarney, Ireland. INNS/IEEE, IEEE

1046) Marchi, E., Schuller, B., Baron-Cohen, S., Golan, O., Bölte, S., Arora, P., and Häb-Umbach, R. (2015a). Typicality and Emotion in the Voice of Children with Autism Spectrum Condition: Evidence Across Three Languages. In *Proceedings INTERSPEECH 2015, 16. Annual Conference of the International Speech Communication Association*, pages 115–119, Dresden, Germany. ISCA, ISCA. (acceptance rate: 51 %)

1047) Marchi, E., Schuller, B., Baron-Cohen, S., Lassalle, A., O'Reilly, H., Pigat, D., Golan, O., Friedenson,

S., Tal, S., Bölte, S., Berggren, S., Lundqvist, D., and Elfström, M. S. (2015b). Voice Emotion Games: Language and Emotion in the Voice of Children with Autism Spectrum Condition. In Paletta, L., Schuller, B., Robinson, P., and Sabouret, N., editors, *Proceedings of the 3. International Workshop on Intelligent Digital Games for Empowerment and Inclusion (IDGEI 2015) as part of the 20. ACM International Conference on Intelligent User Interfaces, IUI 2015*, Atlanta, GA. ACM, ACM. 9 pages (long talk acceptance rate: 36 %)

1048) Metallinou, A., Wöllmer, M., Katsamanis, A., Eyben, F., Schuller, B., and Narayanan, S. (2015). Context-Sensitive Learning for Enhanced Audiovisual Emotion Classification (Extended Abstract). In *Proceedings 6. biannual Conference on Affective Computing and Intelligent Interaction (ACII 2015)*, pages 463–469, Xi'an, China. AAAC, IEEE. invited for the Special Session on Most Influential Articles in IEEE Transactions on Affective Computing

1049) Newman, S., Golan, O., Baron-Cohen, S., Bölte, S., Rynkiewicz, A., Baranger, A., Schuller, B., Robinson, P., Camurri, A., Sezgin, M., Meir-Goren, N., Tal, S., Fridenson-Hayo, S., Lassalle, A., Berggren, S., Sullings, N., Pigat, D., Ptaszek, K., Marchi, E., Piana, S., and Baltrusaitis, T. (2015). ASC-Inclusion – a Virtual World Teaching Children with ASC about Emotions. In *Proceedings 14. Annual International Meeting For Autism Research (IMFAR 2015)*, Salt Lake City, UT. International Society for Autism Research (INSAR), INSAR. 1 page

1050) Pohl, P. and Schuller, B. (2015). Digital Analysis of Vocal Operants. In *Proceedings 2015 Meeting of the Experimental Analysis of Behaviour Group (EABG)*, London, UK. EABG, EABG. 1 pager

1051) Pokorny, F., Graf, F., Pernkopf, F., and Schuller, B. (2015). Detection of Negative Emotions in Speech Signals Using Bags-of-Audio-Words. In *Proceedings 1. International Workshop on Automatic Sentiment Analysis in the Wild (WASA 2015) held in conjunction with the 6. biannual Conference on Affective Computing and Intelligent Interaction (ACII 2015)*, pages 879–884, Xi'an, China. AAAC, IEEE. (acceptance rate: 60 %)

1052) Qian, K., Zhang, Z., Ringeval, F., and Schuller, B. (2015). Bird Sounds Classification by Large Scale Acoustic Features and Extreme Learning Machine. In *Proceedings 3. IEEE Global Conference on Signal and Information Processing, GlobalSIP, Machine Learning Applications in Speech Processing Symposium*, pages 1317–1321, Orlando, FL. IEEE, IEEE. (acceptance rate: 45 %)

1053) Ringeval, F., Marchi, E., Méhu, M., Scherer, K., and Schuller, B. (2015b). Face Reading from Speech – Predicting Facial Action Units from Audio Cues. In *Proceedings INTERSPEECH 2015, 16. Annual Conference of the International Speech Communication Association*, pages 1977–1981, Dresden, Germany. ISCA, ISCA. (acceptance rate: 51 %)

1054) Ringeval, F., Schuller, B., Valstar, M., Cowie, R., and Pantic, M. (2015d). AVEC 2015: The 5. International Audio/Visual Emotion Challenge and Workshop. In *Proceedings of the 23. ACM International Conference on Multimedia, MM 2015*, pages 1335–1336, Brisbane, Australia. ACM, ACM. (acceptance rate: 25 %)

1055) Ringeval, F., Schuller, B., Valstar, M., Jaiswal, S., Marchi, E., Lalanne, D., Cowie, R., and Pantic, M. (2015f). AV+EC 2015 – The First Affect Recognition Challenge Bridging Across Audio, Video, and Physiological Data. In Ringeval, F., Schuller, B., Valstar, M., Cowie, R., and Pantic, M., editors, *Proceedings of the 5. International Workshop on Audio/Visual Emotion Challenge, AVEC'15, co-located with the 23. ACM International Conference on Multimedia, MM 2015*, pages 3–8, Brisbane, Australia. ACM, ACM

1056) Sabouret, N., Schuller, B., Paletta, L., Marchi, E., Jones, H., and Youssef, A. B. (2015). Intelligent User Interfaces in Digital Games for Empowerment and Inclusion. In *Proceedings of the 12th International Conference on Advancement in Computer Entertainment Technology, ACE 2015*, Iskandar, Malaysia. ACM, ACM. 8 pages, Gold Paper Award

1057) Sagha, H., Coutinho, E., and Schuller, B. (2015). The importance of individual differences in the prediction of emotions induced by music. In Ringeval, F., Schuller, B., Valstar, M., Cowie, R., and Pantic, M., editors, *Proceedings of the 5. International Workshop on Audio/Visual Emotion Challenge, AVEC'15, co-located with the 23. ACM International Conference on Multimedia, MM 2015*, pages 57–63, Brisbane, Australia. ACM, ACM. (acceptance rate: 60 %)

1058) Schröder, M., Bevacqua, E., Cowie, R., Eyben, F., Gunes, H., Heylen, D., ter Maat, M., McKeown, G., Pammi, S., Pantic, M., Pelachaud, C., Schuller, B., de Sevin, E., Valstar, M., and Wöllmer, M. (2015). Building Autonomous Sensitive Artificial Listeners (Extended Abstract). In *Proceedings 6. biannual Conference on Affective Computing and Intelligent Interaction (ACII 2015)*, pages 456–462, Xi'an, China. AAAC, IEEE. invited for the Special Session on Most Influential Articles in IEEE Transactions on Affective Computing

1059) Trigeorgis, G., Coutinho, E., Ringeval, F., Marchi, E., Zafeiriou, S., and Schuller, B. (2015b). The ICL-TUM-PASSAU approach for the MediaEval 2015 "Affective Impact of Movies" Task. In Larson, M., Ionescu, B., Sj?berg, M., Anguera, X., Poignant, J., Riegler, M., Eskevich, M., Hauff, C., Sutcliffe, R., Jones, G. J., Yang, Y.-H., Soleymani, M., and Papadopoulos, S., editors, *Proceedings MediaEval 2015 Multimedia Benchmark Workshop, satellite of Interspeech 2015*, volume 1436, Wurzen, Germany. CEUR. 3 pages, best result

1060) Trigeorgis, G., Nicolaou, M. A., Zafeiriou, S., and Schuller, B. (2015c). Towards Deep Alignment of Multimodal Data. In *Proceedings 2015 Multimodal*

Machine Learning Workshop held in conjunction with NIPS 2015 (MMML@NIPS), Montréal, QC. NIPS, NIPS. 4 pages

1061) Weninger, F., Erdogan, H., Watanabe, S., Vincent, E., Le Roux, J., Hershey, J. R., and Schuller, B. (2015b). Speech Enhancement with LSTM Recurrent Neural Networks and its Application to Noise-Robust ASR. In Vincent, E., Yeredor, A., Koldovsk?, Z., and Tichavsk?, P., editors, *Latent Variable Analysis and Signal Separation – Proceedings 12th International Conference on Latent Variable Analysis and Signal Separation, LVA/ICA 2015*, volume 9237 of *Lecture Notes in Computer Science*, pages 91–99, Liberec, Czech Republic. Springer

1062) Xu, X., Deng, J., Zheng, W., Zhao, L., and Schuller, B. (2015). Dimensionality Reduction for Speech Emotion Features by Multiscale Kernels. In *Proceedings INTERSPEECH 2015, 16. Annual Conference of the International Speech Communication Association*, pages 1532–1536, Dresden, Germany. ISCA, ISCA. (acceptance rate: 51 %)

1063) Zhang, Y., Coutinho, E., Zhang, Z., Quan, C., and Schuller, B. (2015b). Agreement-based Dynamic Active Learning with Least and Medium Certainty Query Strategy. In Krishnamurthy, A., Ramdas, A., Balcan, N., and Singh, A., editors, *Proceedings Advances in Active Learning : Bridging Theory and Practice Workshop held in conjunction with the 32. International Conference on Machine Learning, ICML 2015*, Lille, France. International Machine Learning Society, IMLS. 5 pages

1064) Zhang, Y., Coutinho, E., Zhang, Z., Adam, M., and Schuller, B. (2015a). On Rater Reliability and Agreement Based Dynamic Active Learning. In *Proceedings 6. biannual Conference on Affective Computing and Intelligent Interaction (ACII 2015)*, pages 70–76, Xi'an, China. AAAC, IEEE. (acceptance rate oral: 28 %)

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1456) Schuller, B. (2018b). Emotion Sensing at Your Wrist. In *2. 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. 1 page, to appear

1457) Schuller, B. (2018f). State of Mind Sensing from Speech: State of Matters and What Matters. In *Speech, Music and Mind 2018 (SMM18): Detecting and Influencing Mental States with Audio, satellite workshop of Interspeech 2018*, Hyderabad, India. ISCA, ISCA. 1 page

1458) Baird, A., Amiriparian, S., Rynkiewicz, A., and Schuller, B. (2018a). Echolalic Autism Spectrum Condition Vocalisations: Brute-Force and Deep Spectrum Features. In *Proceedings International Paediatric Conference (IPC 2018)*, Rzeszów, Poland. Polish Society of Social Medicine and Public Health. 2 pages

1459) Shen, J., Ainger, E., Alcorn, A. M., Babović Dimitrijevic, S., Baird, A., Chevalier, P., Cummins, N., Li, J. J., Marchi, E., Marinoiu, E., Olaru, V., Pantic, M., Pellicano, E., Petrović, S., Petrović, V., Schadenberg, B. R., Schuller, B., Skendzić, S., Sminchisescu, C., Tavassoli, T., Tran, L., Vlasenko, B., Zanfir, M., Evers, V., and De-Enigma, C. (2018). Autism Data Goes Big: A Publicly-Accessible Multi-Modal Database of Child Interactions for Behavioural and Machine Learning Research. In *Proceedings 17. Annual International Meeting For Autism Research (IMFAR 2018)*, pages 288–289, Rotterdam, The Netherlands. International Society for Autism Research (INSAR), INSAR

1460) Zhang, Z., Warlaumont, A., Schuller, B., Yetish, G., Scaff, C., Colleran, H., Stieglitz, J., and Cristia, A. (2018g). Developing computational measures of vocal maturity from daylong recordings. In *16èmes Rencontres du Réseau Francais de Phonologie (RFP 2018)*, Paris, France. RFP, RFP. 1 page

1461) Schuller, B. (2017e). Mental health monitoring in the pocket as a life changer? The AI view. In *Proceedings 9. Scientific Meeting of the International Society for Research on Internet Interventions, ISRII 2017*, Berlin, Germany. Society for Research on Internet Interventions (SRII), Elsevier. 1 page

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1463) Cummins, N., Hantke, S., Schnieder, S., Krajewski, J., and Schuller, B. (2017b). Classifying the Context and Emotion of Dog Barks: A Comparison of Acoustic Feature Representations. In *Proceedings Pre-Conference on Affective Computing 2017 SAS Annual Conference*, pages 14–15, Boston, MA. Society for Affective Science (SAS)

1464) Guo, J., Qian, K., Schuller, B., and Matsuoka, S. (2017a). GPU Processing Accelerates Training Autoencoders for Bird Sounds Data. In *Proceedings 2017 GPU Technology Conference (GTC)*, San Jose, CA. NVIDIA. 1 page

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1467) Schuller, B. (2016e). Engage to Empower: Emotionally Intelligent Computer Games & Robots for Autistic Children. In Rynkiewicz, A. and Grabowski, K., editors, *Proceedings "The world innovations combining medicine, engineering and technology in autism diagnosis and therapy"*, pages 65–67, Rzeszów, Poland. SOLIS RADIUS

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1469) Pokorny, F. B., Schuller, B. W., Bartl-Pokorny, K. D., Einspieler, C., and Marschik, P. B. (2016c). Contributing to the early identification of Rett syndrome: Automated analysis of vocalisations from the pre-regression period. In *Proceedings Symposium of the Austrian Physiological Society 2016*, Graz, Austria.

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1470) Pokorny, F. B., Schuller, B. W., Peharz, R., Pernkopf, F., Bartl-Pokorny, K. D., Einspieler, C., and Marschik, P. B. (2016d). Contributing to the early identification of neurodevelopmental disorders: The retrospective analysis of pre-linguistic vocalisations in home video material. In *Proceedings IX Congreso Internacional y XIV Nacional de Psicología Clínica*, Santander, Spain. 1 page

1471) Pokorny, F. B., Schuller, B. W., Peharz, R., Pernkopf, F., Bartl-Pokorny, K. D., Einspieler, C., and Marschik, P. B. (2016e). Retrospektive Analyse frühkindlicher Lautäußerungen in „Home-Videos": Ein signalanalytischer Ansatz zur Früherkennung von Entwicklungsstörungen. In *Proceedings 42. Österreichische Linguistiktagung, ÖLT*, Graz, Austria. 1 page

1472) Rudovic, O., Evers, V., Pantic, M., Schuller, B., and Petrović, S. (2016a). DE-ENIGMA Robots: Playfully Empowering Children with Autism. In *Proceedings XI Autism-Europe International Congress*, Edinburgh, Scotland. Autism Europe, The National Autistic Society. 1 page

1473) Rudovic, O., Lee, J., Schuller, B., and Picard, R. (2016b). Automated Measurement of Engagement of Children with Autism Spectrum Conditions during Human-Robot Interaction (HRI). In *Proceedings XI Autism-Europe International Congress*, Edinburgh, Scotland. Autism Europe, The National Autistic Society. 1 page

1474) Schuller, B. (2015f). Modelling User Affect and Sentiment in Intelligent User Interfaces: a Tutorial Overview. In *Proceedings of the 20. ACM International Conference on Intelligent User Interfaces, IUI 2015*, pages 443–446, Atlanta, GA. ACM, ACM

1475) Pokorny, F. B., Einspieler, C., Zhang, D., Kimmerle, A., Bartl-Pokorny, K. D., Schuller, B. W., and Bölte, S. (2014). The Voice of Autism: An Acoustic Analysis of Early Vocalisations. In *COST ESSEA Conference 2014 Book of Abstracts*, Toulouse, France. 1 page

1476) Schuller, B. (2013c). 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. invited contribution, 1 page

1477) Ferroni, G., Marchi, E., Eyben, F., Squartini, S., and Schuller, B. (2013b). Onset Detection Exploiting Wavelet Transform with Bidirectional Long Short-Term Memory Neural Networks. In *Proceedings Annual Meeting of the MIREX 2013 community as part of the 14. International Conference on Music Information Retrieval*, Curitiba, Brazil. ISMIR, ISMIR. 3 pages

1478) Ferroni, G., Marchi, E., Eyben, F., Gabrielli, L., Squartini, S., and Schuller, B. (2013a). Onset Detection Exploiting Adaptive Linear Prediction Filtering in DWT Domain with Bidirectional Long Short-Term Memory Neural Networks. In *Proceedings Annual Meeting of the MIREX 2013 community as part of the 14. International Conference on Music Information Retrieval*, Curitiba, Brazil. ISMIR, ISMIR. 4 pages

1479) Gunes, H. and Schuller, B. (2012). Dimensional and Continuous Analysis of Emotions for Multimedia Applications: a Tutorial Overview. In *Proceedings of the 20. ACM International Conference on Multimedia, MM 2012*, Nara, Japan. ACM, ACM. 2 pages

1480) Schröder, M., Pammi, S., Gunes, H., Pantic, M., Valstar, M., Cowie, R., McKeown, G., Heylen, D., ter Maat, M., Eyben, F., Schuller, B., Wöllmer, M., Bevacqua, E., Pelachaud, C., and de Sevin, E. (2011). Come and Have an Emotional Workout with Sensitive Artificial Listeners! In *Proceedings 9. IEEE International Conference on Automatic Face & Gesture Recognition and Workshops, FG 2011*, pages 646–646, Santa Barbara, CA. IEEE, IEEE

1481) Eyben, F. and Schuller, B. (2010a). 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, The Netherlands. ISMIR, ISMIR. 2 pages (acceptance rate: 61 %)

1482) Eyben, F. and Schuller, B. (2010b). 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, The Netherlands. ISMIR, ISMIR. 1 page (acceptance rate: 61 %)

1483) Böck, S., Eyben, F., and Schuller, B. (2010a). 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, The Netherlands. ISMIR, ISMIR. 2 pages (acceptance rate: 61 %)

1484) Böck, S., Eyben, F., and Schuller, B. (2010b). Onset 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, The Netherlands. ISMIR, ISMIR. 2 pages (acceptance rate: 61 %)

1485) Böck, S., Eyben, F., and Schuller, B. (2010c). 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, The Netherlands. ISMIR, ISMIR. 3 pages (acceptance rate: 61 %)

Invited Papers (32):

1486) Schuller, B. (2023). Empathische Maschinen – KI zwischen Angst und Hoffnung. *MedienConcret*, pages 54–57

1487) Amiriparian, S., Julka, S., Cummins, N., and Schuller, B. (2018d). Deep Convolutional Recurrent Neural

Networks for Rare Sound Event Detection. In *Proceedings 44. Jahrestagung für Akustik, DAGA 2018*, Munich, Germany. DEGA, DEGA. 4 pages, invited contribution, Structured Session Deep Learning for Audio

1488) Schmitt, M. and Schuller, B. (2018). Deep Recurrent Neural Networks for Emotion Recognition in Speech. In *Proceedings 44. Jahrestagung für Akustik, DAGA 2018*, Munich, Germany. DEGA, DEGA. 4 pages, invited contribution, Structured Session Deep Learning for Audio

1489) Schuller, B., Wöllmer, M., Eyben, F., Rigoll, G., and Arsić, D. (2011h). Semantic Speech Tagging: Towards Combined Analysis of Speaker Traits. In Brandenburg, K. and Sandler, M., editors, *Proceedings AES 42. International Conference*, pages 89–97, Ilmenau, Germany. AES, Audio Engineering Society. invited contribution

1490) Schuller, B., Can, S., and Feussner, H. (2009b). Robust Key-Word Spotting in Field Noise for Open-Microphone Surgeon-Robot Interaction. In *Proceedings 5. Russian-Bavarian Conference on Bio-Medical Engineering, RBC-BME 2009*, pages 121–123, Munich, Germany. invited contribution

1491) Schuller, B., Lehmann, A., Weninger, F., Eyben, F., and Rigoll, G. (2009e). Blind Enhancement of the Rhythmic and Harmonic Sections by NMF: Does it help? In *Proceedings International Conference on Acoustics including the 35. German Annual Conference on Acoustics, NAG/DAGA 2009*, pages 361–364, Rotterdam, The Netherlands. Acoustical Society of the Netherlands, DEGA, DEGA. invited contribution

1492) Schuller, B. (2008). Speaker, Noise, and Acoustic Space Adaptation for Emotion Recognition in the Automotive Environment. In *Proceedings 8. ITG Conference on Speech Communication*, volume 211 of *ITG-Fachbericht*, Aachen, Germany. ITG, VDE-Verlag. invited contribution, 4 pages

1493) Schuller, B., Wöllmer, M., Moosmayr, T., and Rigoll, G. (2008k). Robust Spelling and Digit Recognition in the Car: Switching Models and Their Like. In *Proceedings 34. Jahrestagung für Akustik, DAGA 2008*, pages 847–848, Dresden, Germany. DEGA, DEGA. invited contribution, Structured Session Sprachakustik im Kraftfahrzeug

1494) Schuller, B., Eyben, F., and Rigoll, G. (2008d). Beat-Synchronous Data-driven Automatic Chord Labeling. In *Proceedings 34. Jahrestagung für Akustik, DAGA 2008*, pages 555–556, Dresden, Germany. DEGA, DEGA. invited contribution, Structured Session Music Processing

1495) Schuller, B., Can, S., Scheuermann, C., Feussner, H., and Rigoll, G. (2008b). Robust Speech Recognition for Human-Robot Interaction in Minimal Invasive Surgery. In *Proceedings 4. Russian-Bavarian Conference on Bio-Medical Engineering, RBC-BME 2008*, pages 197–201, Zelenograd, Russia. invited contribution

1496) Schuller, B., Müller, R., Hörnler, B., Höthker, A., Konosu, H., and Rigoll, G. (2007c). Audiovisual Recognition of Spontaneous Interest within Conversations. In *Proceedings 9. ACM International Conference on Multimodal Interfaces, ICMI 2007*, pages 30–37, Nagoya, Japan. ACM, ACM. invited contribution, Special Session on Multimodal Analysis of Human Spontaneous Behaviour (acceptance rate: 56 %)

1497) Schuller, B., Rigoll, G., Grimm, M., Kroschel, K., Moosmayr, T., and Ruske, G. (2007d). Effects of In-Car Noise-Conditions on the Recognition of Emotion within Speech. In *Proceedings 33. Jahrestagung für Akustik, DAGA 2007*, pages 305–306, Stuttgart, Germany. DEGA, DEGA. invited contribution, Structured Session Sprachakustik im Kraftfahrzeug

1498) Schuller, B., Stadermann, J., and Rigoll, G. (2006f). Affect-Robust Speech Recognition by Dynamic Emotional Adaptation. In *Proceedings 3. International Conference on Speech Prosody, SP 2006*, Dresden, Germany. ISCA, ISCA. invited contribution, Special Session Prosody in Automatic Speech Recognition, 4 pages

1499) Schuller, B., Lang, M., and Rigoll, G. (2006d). Recognition of Spontaneous Emotions by Speech within Automotive Environment. In *Proceedings 32. Jahrestagung für Akustik, DAGA 2006*, pages 57–58, Braunschweig, Germany. DEGA, DEGA. invited contribution, Structured Session Sprachakustik im Kraftfahrzeug

1500) Schuller, B. and Rigoll, G. (2006a). Self-learning Acoustic Feature Generation and Selection for the Discrimination of Musical Signals. In *Proceedings 32. Jahrestagung für Akustik, DAGA 2006*, pages 285–286, Braunschweig, Germany. DEGA, DEGA. invited contribution, Structured Session Music Processing

1501) Schuller, B., Müller, R., Lang, M., and Rigoll, G. (2005c). Speaker Independent Emotion Recognition by Early Fusion of Acoustic and Linguistic Features within Ensembles. In *Proceedings Interspeech 2005, Eurospeech*, pages 805–809, Lisbon, Portugal. ISCA, ISCA. invited contribution, Special Session Emotional Speech Analysis and Synthesis: Towards a Multimodal Approach (acceptance rate: 61 %)

1502) Schuller, B., Lang, M., and Rigoll, G. (2005b). Robust Acoustic Speech Emotion Recognition by Ensembles of Classifiers. In *Proceedings 31. Jahrestagung für Akustik, DAGA 2005*, pages 329–330, Munich, Germany. DEGA, DEGA. invited contribution, Structured Session Automatische Spracherkennung in gestörter Umgebung

1503) Schuller, B., Rigoll, G., and Lang, M. (2005e). Matching Monophonic Audio Clips to Polyphonic Recordings. In *Proceedings 31. Jahrestagung für Akustik, DAGA 2005*, pages 299–300, Munich, Germany. DEGA, DEGA. invited contribution, Structured Session Music Processing

1504) Zhang, Z., Weninger, F., and Schuller, B. (2012). Towards Automatic Intoxication Detection from Speech

in Real-Life Acoustic Environments. In Fingscheidt, T. and Kellermann, W., editors, *Proceedings of Speech Communication; 10. ITG Symposium*, pages 1–4, Braunschweig, Germany. ITG, IEEE. invited contribution

1505) Joder, C. and Schuller, B. (2012a). Exploring Non-negative Matrix Factorisation for Audio Classification: Application to Speaker Recognition. In Fingscheidt, T. and Kellermann, W., editors, *Proceedings of Speech Communication; 10. ITG Symposium*, pages 1–4, Braunschweig, Germany. ITG, IEEE. invited contribution

1506) Deng, J., Han, W., and Schuller, B. (2012). Confidence Measures for Speech Emotion Recognition: a Start. In Fingscheidt, T. and Kellermann, W., editors, *Proceedings of Speech Communication; 10. ITG Symposium*, pages 1–4, Braunschweig, Germany. ITG, IEEE. invited contribution

1507) Wöllmer, M., Kaiser, M., Eyben, F., Weninger, F., Schuller, B., and Rigoll, G. (2012b). Fully Automatic Audiovisual Emotion Recognition – Voice, Words, and the Face. In Fingscheidt, T. and Kellermann, W., editors, *Proceedings of Speech Communication; 10. ITG Symposium*, pages 1–4, Braunschweig, Germany. ITG, IEEE. invited contribution

1508) Weninger, F., Wöllmer, M., and Schuller, B. (2012h). Sparse, Hierarchical and Semi-Supervised Base Learning for Monaural Enhancement of Conversational Speech. In Fingscheidt, T. and Kellermann, W., editors, *Proceedings 10. ITG Conference on Speech Communication*, pages 1–4, Braunschweig, Germany. ITG, IEEE. invited contribution

1509) Han, W., Zhang, Z., Deng, J., Wöllmer, M., Weninger, F., and Schuller, B. (2012c). Towards Distributed Recognition of Emotion in Speech. In *Proceedings 5. International Symposium on Communications, Control, and Signal Processing, ISCCSP 2012*, pages 1–4, Rome, Italy. IEEE, IEEE. invited contribution, Special Session Interactive Behaviour Analysis

1510) Weninger, F. and Schuller, B. (2011b). 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 Multimodal Interaction, ICMI 2011*, Alicante, Spain. ACM, ACM. invited contribution, 2 pages (acceptance rate: 39 %)

1511) Weninger, F., Schuller, B., Liem, C., Kurth, F., and Hanjalic, A. (2012e). Music Information Retrieval: An Inspirational Guide to Transfer from Related Disciplines. In Müller, M. and Goto, M., editors, *Multimodal Music Processing*, volume Seminar 11041 of *Dagstuhl Follow-Ups*, pages 195–215, Schloss Dagstuhl, Germany. invited contribution

1512) Wöllmer, M., Klebert, N., and Schuller, B. (2010e). Switching Linear Dynamic Models for Recognition of Emotionally Colored and Noisy Speech. In *Proceedings 9. ITG Conference on Speech Communication*, volume 225 of *ITG-Fachbericht*, Bochum, Germany. ITG, VDE-Verlag. invited contribution, Special Session Bayesian Methods for Speech Enhancement and Recognition, 4 pages

1513) Devillers, L. and Schuller, B. (2010). The Essential Role of Language Resources for the Future of Affective Computing Systems: A Recognition Perspective. In *Proceedings 2. European Language Resources and Technologies Forum: Language Resources of the future – the future of Language Resources*, Barcelona, Spain. FLaReNet. invited contribution, 2 pages

1514) Steidl, S., Schuller, B., Seppi, D., and Batliner, A. (2009). The Hinterland of Emotions: Facing the Open-Microphone Challenge. In *Proceedings 3. International Conference on Affective Computing and Intelligent Interaction and Workshops, ACII 2009*, volume I, pages 690–697, Amsterdam, The Netherlands. HUMAINE Association, IEEE. invited contribution, Special Session Recognition of Non-Prototypical Emotion from Speech – The final frontier?

1515) Baggia, P., Burkhardt, F., Pelachaud, C., Peter, C., Schuller, B., Wilson, I., and Zovato, E. (2008). Elements of an EmotionML 1.0. Technical report, W3C

1516) Batliner, A., Seppi, D., Schuller, B., Steidl, S., Vogt, T., Wagner, J., Devillers, L., Vidrascu, L., Amir, N., and Aharonson, V. (2008b). Patterns, Prototypes, Performance. In Hornegger, J., Höller, K., Ritt, P., Borsdorf, A., and Niedermeier, H.-P., editors, *Pattern Recognition in Medical and Health Engineering, Proceedings HSS-Cooperation Seminar Ingenieurwissenschaftliche Beiträge für ein leistungsfähigeres Gesundheitssystem*, pages 85–86, Wildbad Kreuth, Germany. invited contribution

1517) Grimm, M., Kroschel, K., Schuller, B., Rigoll, G., and Moosmayr, T. (2007b). Acoustic Emotion Recognition in Car Environment Using a 3D Emotion Space Approach. In *Proceedings 33. Jahrestagung für Akustik, DAGA 2007*, pages 313–314, Stuttgart, Germany. DEGA, DEGA. invited contribution, Structured Session Session Sprachakustik im Kraftfahrzeug

1518) Rigoll, G., Müller, R., and Schuller, B. (2005). Speech Emotion Recognition Exploiting Acoustic and Linguistic Information Sources. In Kokkinakis, G., editor, *Proceedings 10. International Conference Speech and Computer, SPECOM 2005*, volume 1, pages 61–67, Patras, Greece. invited contribution

Forewords (7):

1519) Schuller, B. (2021a). Preface. In Shao, X., Qian, K., Zhou, L., Wang, X., and Zhao, Z., editors, *Proceedings of the 8. China Conference on Sound and Music Technology, Selected Papers from CSMT*, volume 761 of *Lecture Notes in Electrical Engineering*, pages V–VI, Taiyuan, China. Shanghai Computer Music Association, Springer

1520) Schuller, B. (2020). Computers Hearing Children's Cries and Pathologies – A Foreword. In Neustein,

A. and Patil, H. A., editors, *Acoustic Analysis of Pathologies From Infancy to Young Adulthood*, volume 7 of *De Gruyter Series in Speech Technology and Text Analytics in Medicine and Healthcare*, pages VII–X. DeGruyter

1521) Tao, J., Schuller, B., and Campbell, N. (2018). ACII Asia 2018 – AAAC Asian Conference on Affective Computing and Intelligent Interaction in Beijing. In *Proceedings first Asian Conference on Affective Computing and Intelligent Interaction (ACII Asia 2018)*, Beijing, China. AAAC, IEEE. 1 page

1522) Schuller, B. (2015a). A decade of encouraging speech processing "outside of the box" – a Foreword. In Esposito, A., Faundez-Zanuy, M., Esposito, A. M., Cordasco, G., Drugman, T., Solé-Casals, J., and Morabito, C. F., editors, *Recent Advances in Nonlinear Speech Processing – 7. International Conference, NOLISP 2015, Vietri sul Mare, Italy, May 18–19, 2015, Proceedings*, volume 48, Smart Innovation, Systems and Technologies of *Smart Innovation Systems and Technologies*, pages 3–4. Springer. invited

1523) Cowie, R., Ji, Q., Tao, J., Gratch, J., and Schuller, B. (2015). Foreword ACII 2015 – Affective Computing and Intelligent Interaction at Xi'an. In *Proceedings 6. biannual Conference on Affective Computing and Intelligent Interaction (ACII 2015)*, Xi'an, China. AAAC, IEEE. 2 pages

1524) Schuller, B. (2015e). Foreword. In Cambria, E. and Hussain, A., editors, *Sentic Computing – A Common-Sense-Based Framework for Concept-Level Sentiment Analysis*, pages v–vi. Springer, 2 edition. invited foreword

1525) Schuller, B. (2015i). Supervisor's Foreword. In Eyben, F., editor, *Real-time Speech and Music Classification by Large Audio Feature Space Extraction*. Springer. invited foreword, 2 pages

Reviewed Technical Newsletter Contributions (5):

1526) Eyben, F. and Schuller, B. (2014). openSMILE:) The Munich Open-Source Large-Scale Multimedia Feature Extractor. *ACM SIGMM Records*, 6(4)

1527) Schuller, B., Steidl, S., and Batliner, A. (2013g). The INTERSPEECH 2013 Computational Paralinguistics Challenge – A Brief Review. *Speech and Language Processing Technical Committee (SLTC) Newsletter*

1528) Schuller, B., Steidl, S., Batliner, A., Schiel, F., and Krajewski, J. (2012e). The INTERSPEECH 2011 Speaker State Challenge – A review. *Speech and Language Processing Technical Committee (SLTC) Newsletter*

1529) Schuller, B. and Devillers, L. (2010a). Emotion 2010 – On Recent Corpora for Research on Emotion and Affect. *ELRA Newsletter, LREC 2010 Special Issue*, 15(1–2):18–18

1530) Schuller, B., Steidl, S., Batliner, A., and Jurcicek, F. (2009i). The INTERSPEECH 2009 Emotion Challenge – Results and Lessons Learnt. *Speech and Language Processing Technical Committee (SLTC) Newsletter*

Technical Reports and Preprints (310):

1531) Gebhard, A., Triantafyllopoulos, A., Arend, D., Müller, S., Schmidt, S., Scherer-Lorenzen, M., and Schuller, B. W. (2026). CoarseSoundNet: Building a reliable model for ecological soundscape analysis. *arxiv.org*, (2605.21143). 47 pages

1532) Hu, H., Weng, T., Cheng, Z., Wang, Y., Luo, J., Schuller, B., Lian, Z., and Cui, L. (2026). EmoTrans: A Benchmark for Understanding, Reasoning, and Predicting Emotion Transitions in Multimodal LLMs. *arxiv.org*, (2604.23348). 12 pages

1533) Jing, X., Triantafyllopoulos, A., Wang, J., Amiriparian, S., Luo, J., and Schuller, B. (2026a). EmoSURA: Towards Accurate Evaluation of Detailed and Long-Context Emotional Speech Captions. In *Proceedings INTERSPEECH 2026, 27. Annual Conference of the International Speech Communication Association*, Sydney, Australia. ISCA, ISCA. 6 pages, to appear

1534) Jing, X., Wang, J., Triantafyllopoulos, A., Gerczuk, M., Amiriparian, S., Luo, J., and Schuller, B. (2026c). SmoothCLAP: Soft-Target Enhanced Contrastive Language-Audio Pretraining for Affective Computing. *arxiv.org*, (2601.12591). 5 pages

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