Dr.-Ing. Jakob Abeßer

Senior Scientist
Fraunhofer Institute for Digital Media Technologies (IDMT)
Ehrenbergstraße 31, 98693 Ilmenau, Germany
+49 3677 467288
jakob.abesser@idmt.fraunhofer.de

PUBLICATIONS

Publication Metrics

- Zitate: 1680
- h-index: 21
- i10-index: 48[1]

Theses

- Jakob Abeßer. *Automatic Transcription of Bass Guitar Tracks applied for Music Genre Classification and Sound Synthesis*. PhD thesis, Technische Universität Ilmenau, 2014

Books (edited)

- Martin Pfleiderer, Klaus Frieler, Jakob Abeßer, Wolf-Georg Zaddach, and Benjamin Burkhart, editors. *Inside the Jazzomat - New Perspectives for Jazz Research*. Schott Campus, 2017

Proceedings (edited)

- Christian Dittmar, Jakob Abeßer, and Meinard Müller, editors. *Proceedings of the AES International Conference on Semantic Audio*, 2017

Journal Articles

- Jakob Abeßer, Zhiwei Liang, and Bernhard Seeber. Sound recurrence analysis for acoustic scene classification. 2025
- Jakob Abeßer, Sascha Grollmisch, and Meinard Müller. How robust are audio embeddings for polyphonic sound event tagging? *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 31:2658–2667, 2023
- Jakob Abeßer, Asad Ullah, Sebastian Ziegler, and Sascha Grollmisch. Human and machine performance in counting sound classes in single-channel soundscapes. *Journal of the Audio Engineering Society (AES)*, 71(12):860–872, 2023
- Stefan Balke, Julian Reck, Christof Weiß, Jakob Abeßer, and Meinard Müller. JSD: A dataset for structure analysis in jazz music. *Transactions of the International Society for Music Information Retrieval (TISMIR)*, 5(1):156172, 2022
- Michael Taenzer, Stylianos I. Mimilakis, and Jakob Abeßer. Informing piano multi-pitch estimation with inferred local polyphony based on convolutional neural networks. *Electronics*, 10(7), 2021
- Jakob Abeßer and Meinard Müller. Jazz bass transcription using a U-Net architecture. *Electronics*, 10(6), 2021
- Jakob Abeßer. A review of deep learning based methods for acoustic scene classification. *Applied Sciences*, 10(6), 2020

[1] https://scholar.google.de/citations?user=15zM8xoAAAAJ&hl=de&oi=ao

- Stefan Balke, Christian Dittmar, Jakob Abeßer, Klaus Frieler, Martin Pfleiderer, and Meinard Müller. Bridging the gap: Enriching YouTube videos with jazz music annotations. *Frontiers in Digital Humanities*, 5:1, 2018
- Jakob Abeßer and Gerald Schuller. Instrument-centered music transcription of solo bass guitar recordings. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 25(9):1741–1750, Sep. 2017
- Jakob Abeßer, Klaus Frieler, Estefanía Cano, Martin Pfleiderer, and Wolf-Georg Zaddach. Score-informed analysis of tuning, intonation, pitch modulation, and dynamics in jazz solos. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 25(1):168–177, Jan 2017
- Klaus Frieler, Martin Pfleiderer, Jakob Abeßer, and Wolf-Georg Zaddach. Midlevel analysis of monophonic jazz solos. A new approach to the study of improvisation. *Musicae Scientiae*, 20(2):143–162, 2016
- Klaus Frieler, Martin Pfleiderer, Jakob Abeßer, and Wolf-Georg Zaddach. Chasing the difference. Computer-aided comparison of improvisation in post-bop, hard bop, and bebop. *Jazzforschung / Jazz Research*, 46:249–274, 2017
- Jakob Abeßer. Automatic string detection for bass guitar and electric guitar. In Mitsuko Aramaki, Mathieu Barthet, Richard Kronland-Martinet, and Sølvi Ystad, editors, *From Sounds to Music and Emotions*, volume 7900 of *Lecture Notes in Computer Science*, pages 333–352. Springer, London, UK, 2012
- Jakob Abeßer, Hanna Lukashevich, and Paul Bräuer. Classification of Music Genres based on Repetitive Basslines. *Journal of New Music Research*, 41(3):239–257, 2012

Conference Papers (peer-reviewed)

- Ravi Kumar, Sascha Grollmisch, and Jakob Abeßer. Improvement and cross domain evaluation of slow-fast-networks. In *Proceedings of the AES Intarnational Conference on Artificial Intelligence and Machine Learning for Audio (AIMLA)*, 2025
- Yuxuan He, Alireza Molla Ali Hosseini, Jakob Abeßer, Lina Jaurigue, Alexander Raake, and Kathy Lüdge. From cnn to reservoir computing: A new perspective on acoustic scene classification. In *Proceedings of the AES Intarnational Conference on Artificial Intelligence and Machine Learning for Audio (AIMLA)*, 2025
- Pitchapa Ngamthipwatthana, András Kátai Marco Götze, and Jakob Abeßer. Towards Measuring and Forecasting Noise Exposure at the VELTINS-Arena in Gelsenkirchen, Germany. In *Proceedings of the 5th IEEE International Symposium on the Internet of Sounds*, Erlangen, Germany, 2024
- Amir Latifi Bidarouni and Jakob Abeßer. Towards domain shift in location-mismatch scenarios for bird activity detection. In *Proceedings of the Euopean Signal Processing Conference (EUSIPCO)*, Lyon, France, 2024
- Konstantinos Apostolidis, Jakob Abeßer, Luca Cuccovillo, and Vasileios Mezaris. Visual and audio scene classification for detecting discrepancies in video: a baseline method and experimental protocol. In *Proceedings of the ACM International Workshop on Multimedia AI against Disinformation (MAD)*, Thessaloniki, Greece, 2024
- Amir Latifi Bidarouni and Jakob Abeßer. Unsupervised feature-space domain adaptation applied for audio classification. In *Proceedings of the 4th International Symposium on the Internet of Sounds*, 2023

- Sascha Grollmisch, Estefanía Cano, Hanna Lukashevich, and Jakob Abeßer. Uncertainty in semi-supervised audio classification - a novel extension for fixmatch. In *Proceedings of the European Signal Processing Conference (EUSIPCO)*, Helsinki, Finland, 2023
- Hanna Lukashevich, Sascha Grollmisch, and Jakob Abeßer. Temperature scaling for reliable uncertainty estimation: Application to automatic music genre classification. In *Proceedings of the Uncertainty meets Explainability Workshop at the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD)*, 2023
- Hanna Lukashevich, Sascha Grollmisch, Jakob Abeßer, Sebastian Stober, and Joachim Bös. How reliable are posterior class probabilties in automatic music classification? In *Proceedings of the Audio Mostly conference*, 2023
- Franca Bittner and Jakob Abeßer. An introduction to unsupervised domain adaptation in sound and music processing. In *Proceedings of the 49. Jahrestagung für Akustik (DAGA)*, 2023
- Sebastian Ribecky, Hanna Lukashevich, and Jakob Abeßer. Multi-input architecture and disentangled representation learning for multi-dimensional modeling of music similarity. In *Proceedings of the 152nd AES Convention*, 2022
- Jakob Abeßer. Classifying Sounds in Polyphonic Urban Sound Scenes. In *Proceedings of the 152nd Audio Engineering Society (AES) Convention*, Online, 2022
- Christon R. Nadar, Michael Taenzer, and Jakob Abeßer. Towards Interpreting and Improving the Latent Space for Musical Chord Recognition. In *Proceedings of the International Computer Music Conference (ICMC)*, Limerick, Ireland, 2022
- Jakob Abeßer, Jaydeep Chauhan, Prateek Pradeep Pillai, Michael Taenzer, and Stylianos I. Mimilakis. Predominant jazz instrument recognition: Empirical studies on neural network architectures. In *Proceedings of the European Signal Processing Conference (EUSIPCO)*, 2021
- Jakob Abeßer, Saichand Gourishetti, András Kátai, Tobias Clauß, Prachi Sharma, and Judith Liebetrau. IDMT-Traffic: An open benchmark dataset for acoustic traffic monitoring research. In *Proceedings of the European Signal Processing Conference (EUSIPCO)*, 2021
- Alexandra Draghici, Jakob Abeßer, and Hanna Lukashevich. A study on spoken language identification using deep neural networks. In *Proceedings of the 15th International Conference on Audio Mostly*, pages 253–256, 2020
- David S. Johnson, Wolfgang Lorenz, Michael Taenzer, Stylianos Mimilakis, Sascha Grollmisch, Jakob Abeßer, and Hanna Lukashevich. DESED-FL and URBAN-FL: Federated learning datasets for sound event detection. In *Proceedings of the European Signal Processing Conference (EUSIPCO)*, 2021
- Matthias Nowakowsi, Christof Weiß, and Jakob Abeßer. Towards deep learning strategies for transcribing electroacoustic music. In *Proceedings of the 15th International Symposium on Computer Music Multidisciplinary Research (CMMR)*, 2020
- Tobias Clauß and Jakob Abeßer. Identifikation urbaner Geräuschquellen mittels maschineller Lernverfahren. *Lärmbekämpfung*, (3), 2020
- Michael Taenzer, Jakob Abeßer, Stylianos Ioannis Mimilakis, Christof Weiß, Meinard Müller, and Hanna Lukashevich. Investigating CNN-based instrument family recording for western classical music recordings. In *Proceedings*

of the 20th International Society for Music Information Retrieval Conference (ISMIR), Delft, Netherlands, 2019

- Christon-Ragavan Nadar, Jakob Abeßer, and Sascha Grollmisch. Towards CNN-based acoustic modeling of seventh chords for recognition chord recognition. In *Proceedings of the 16th Sound & Music Computing Conference (SMC)*, Malaga, Spain, 2019
- Stylianos Ioannis Mimilakis, Christof Weiß, Vlora Arifi-Müller, Jakob Abeßer, and Meinard Müller. Cross-version singing voice detection in opera recordings: Challenges for supervised learning. In *Proceedings of the 12th International Workshop on Machine Learning and Music (MML)*, Würzburg, Germany, 2019
- Sascha Grollmisch, Jakob Abeßer, Judith Liebetrau, and Hanna Lukashevich. Sounding industry: Challenges and datasets for industrial sound analysis. In *Proceedings of the 27th European Signal Processing Conference (EUSIPCO)*, A Coruña, Spain, 2019
- Jakob Abeßer and Meinard Müller. Fundamental frequency contour classification: A comparison between hand-crafted and CNN-based features. In *Proceedings of the 44th IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Brighton, UK, 2019
- Jakob Abeßer and Sara Kepplinger. Smart solutions to cope with urban noise pollution. *ERCIM*, 2019
- Jakob Abeßer, Marco Götze, Tobias Clauß, Dominik Zapf, Christian Kühn, Hanna Lukashevich, Stephanie Kühnlenz, and Stylianos Ioannis Mimilakis. Urban noise monitoring in the Stadtlärm project - A field report. In *Proceedings of the Detection and Classification of Acoustic Scenes and Events (DCASE) Workshop*, New York, NY, USA, 2019
- Christof Weiß, Stefan Balke, Jakob Abeßer, and Meinard Müller. Computational corpus analysis: A case study on jazz solos. In *Proceedings of the 19th International Society for Music Information Retrieval Conference (ISMIR)*, pages 416–423, Paris, France, 2018
- Juan S. Gómez, Jakob Abeßer, and Estefanía Cano. Jazz solo instrument classification with convolutional neural networks, source separation, and transfer learning. In *Proceedings of the 19th International Society for Music Information Retrieval Conference (ISMIR)*, pages 577–584, Paris, France, 2018
- Tobias Clauß, Jakob Abeßer, Hanna Lukashevich, Robert Gräfe, Franz Häuser, Christian Kühn, and Thomas Sporer. Stadtlärm - a distributed system for noise level measurement and noise source identification in a smart city environment. In *Proceedings of the Deutsche Jahrestagung für Akustik (DAGA)*, pages 285–288, Munich, Germany, 2018
- Jakob Abeßer, Robert Gräfe, Christian Kühn, Tobias Clauß, Hanna Lukashevich, Marco Götze, and Stephanie Kühnlenz. A distributed sensor network for monitoring noise level and noise sources in urban environments. In *Proceedings of the 6th IEEE International Conference on Future Internet of Things and Cloud (FiCloud)*, pages 318–324, Barcelona, Spain, 2018
- Jakob Abeßer, Stefan Balke, and Meinard Müller. Improving bass saliency estimation using label propagation and transfer learning. In *Proceedings of the 19th International Society for Music Information Retrieval Conference (ISMIR)*, pages 306–312, Paris, France, 2018
- Jakob Abeßer, Stylianos Ioannis Mimilakis, Robert Gräfe, and Hanna Lukashevich. Acoustic scene classification by combining autoencoder-based dimensionality reduction and convolutional neural networks. In *Proceedings of the*

2nd DCASE Workshop on Detection and Classification of Acoustic Scenes and Events, Munich, Germany, 16-17 November 2017

- Jakob Abeßer, Stefan Balke, Klaus Frieler, Martin Pfleiderer, and Meinard Müller. Deep learning for jazz walking bass transcription. In *Proceedings of the AES International Conference on Semantic Audio*, Erlangen, Germany, 2017
- Stylianos Ioannis Mimilakis, Estefanía Cano, Jakob Abeßer, and Gerald Schuller. New sonorities for jazz recordings: separation and mixing using deep neural networks. In *Proceedings of the 2nd AES Workshop on Intelligent Music Production*, London, UK, 2016
- Stefan Balke, Jonathan Driedger, Jakob Abeßer, and Meinard Müller. Towards evaluating multiple predominant melody annotations in jazz recordings. In *Proceedings of the 17th International Society for Music Information Retrieval Conference (ISMIR)*, pages 246–252, New York, USA, 2016
- Carsten Bönsel, Jakob Abeßer, Sascha Grollmisch, and Stylianos Ioannis Mimilakis. Automatic best take detection for electric guitar and vocal studio recordings. In *Proceedings of the 2nd AES Workshop on Intelligent Music Production*, London, UK, 2016
- Daniel Matz, Estefanía Cano, and Jakob Abeßer. New sonorities for early jazz recordings using sound source separation and automatic mixing tools. In *Proceedings of the International Society for Music Information Retrieval Conference (ISMIR)*, pages 749–755, Málaga, Spain, 2015
- Jakob Abeßer, Estefanía Cano, Klaus Frieler, Martin Pfleiderer, and Wolf-Georg Zaddach. Score-informed analysis of intonation and pitch modulation in jazz solos. In *Proceedings of the International Society for Music Information Retrieval Conference (ISMIR)*, pages 823–829, Málaga, Spain, 2015
- Anna M. Kruspe, Jakob Abeßer, and Christian Dittmar. A GMM approach to singing language identification. In *Proceedings of the AES International Conference on Semantic Audio*, pages 140–148, London, UK, 2014
- Christian Kehling, Jakob Abeßer, Christian Dittmar, and Gerald Schuller. Automatic tablature transcription of electric guitar recordings by estimation of score- and instrument-related parameters. In *Proceedings of the International Conference on Digital Audio Effects (DAFx)*, Erlangen, Germany, 2014
- Arndt Eppler, Andreas Männchen, Jakob Abeßer, Christof Weiß, and Klaus Frieler. Automatic style classification of jazz records with respect to rhythm, tempo, and tonality. In *Proceedings of the Conference on Interdisciplinary Musicology (CIM)*, pages 162–167, Berlin, Germany, 2014
- Jakob Abeßer, Martin Pfleiderer, Klaus Frieler, and Wolf-Georg Zaddach. Score-informed tracking and contextual analysis of fundamental frequency contours in trumpet and saxophone jazz solos. In *Proceedings of the International Conference on Digital Audio Effects (DAFx)*, pages 181–186, Erlangen, Germany, 2014
- Jakob Abeßer, Estefanía Cano, Klaus Frieler, and Martin Pfleiderer. Dynamics in jazz improvisation - Score-informed estimation and contextual analysis of tone intensities in trumpet and saxophone solos. In *Proceedings of the Conference on Interdisciplinary Musicology (CIM)*, pages 156–161, Berlin, Germany, 2014
- Anna Marie Kruspe, Jakob Abeßer, and Christian Dittmar. Towards coarse-scale event detection in music. In *Proceedings of the Audio Mostly Conference on Interaction with Sound*, Piteå, Sweden, 2013

- Mikus Grasis, Jakob Abeßer, Christian Dittmar, and Hanna Lukashevich. A Multiple-Expert Framework for Instrument Recognition. In *Proceedings of the International Symposium on Computer Music Multidisciplinary Research (CMMR)*, Marseilles, France, 2013
- Klaus Frieler, Jakob Abeßer, Wolf-Georg Zaddach, and Martin Pfleiderer. Introducing the Jazzomat Project and the Melo(S)py Library. In *Proceedings of the International Workshop on Folk Music Analysis (FMA)*, pages 76–78, Utrecht, Netherlands, 2013
- Christian Dittmar, Andreas Männchen, and Jakob Abeßer. Real-time guitar string detection for music education software. In *Proceedings of the nternational Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS)*, Paris, France, 2013
- Jakob Abeßer, Patrick Kramer, Christian Dittmar, and Gerald Schuller. Parametric Audio Coding of Bass Guitar Recordings using a Tuned Physical Modeling Algorithm. In *Proceedings of the International Conference on Digital Audio Effects (DAFx)*, Maynooth, Ireland, 2013
- Jakob Abeßer, Johannes Hasselhorn, Christian Dittmar, Andreas Lehmann, and Sascha Grollmisch. Automatic Quality Assessment of Vocal and Instrumental Performances of Ninth-grade and Tenth-grade Pupils. In *Proceedings of the International Symposium on Computer Music Multidisciplinary Research (CMMR)*, Marseilles, France, 2013
- Jakob Abeßer, Klaus Frieler, Martin Pfleiderer, and Wolf-Georg Zaddach. Introducing the Jazzomat project - Jazz solo analysis using Music Information Retrieval methods. In *Proceedings of the International Symposium on Computer Music Multidisciplinary Research (CMMR)*, Marseilles, France, 2013
- Johannes Krasser, Jakob Abeßer, Holger Großmann, Christian Dittmar, and Estefanía Cano. Improved Music Similarity Computation based on Tone Objects. In *Proceedings of the Audio Mostly Conference on Interaction with Sound*, Corfu, Greece, 2012
- Christian Dittmar, Jakob Abeßer, Sascha Grollmisch, Johannes Hasselhorn, and Andreas Lehmann. Automatic singing assessment of pupil performances. In *Proceedings of the International Conference on Music Perception and Cognition and the 8th Triennial conference of the European Society for the Cognitive Sciences of Music (ICMPC-ESCOM)*, pages 263–264, Thessaloniki, Greece, 2012
- Vedant Dhandhania, Jakob Abeßer, Anna Kruspe, and Holger Großmann. Automatic and manual annotation of time-varying perceptual properties in movie soundtracks. In *Proceedings of the Sound and Music Computing Conference (SMC)*, pages 461–466, Copenhagen, Denmark, 2012
- Anna Kruspe, Hanna Lukashevich, Jakob Abeßer, Holger Großmann, and Christian Dittmar. Automatic classification of music pieces into global cultural areas. In *Proceedings of the AES International Conference on Semantic Audio*, pages 44–53, Ilmenau, Germany, 2011
- Anna Kruspe, Hanna Lukashevich, and Jakob Abeßer. Artist Filtering for Non-western Music Classification. In *Proceedings of the Audio Mostly Conference: A Conference on Interaction with Sound*, pages 82–87, Coimbra, Portugal, 2011
- Jakob Abeßer, Olivier Lartillot, Christian Dittmar, Tuomas Eerola, and Gerald Schuller. Modeling Musical Attributes to Characterize Ensemble Recordings using Rhythmic Audio Features. In *Proceedings of the IEEE Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 189–192, Praha, Czech Republic, 2011

- Jakob Abeßer, Christian Dittmar, and Gerald Schuller. Automatic Recognition and Parametrization of Frequency Modulation Techniques in Bass Guitar Recordings. In *Proceedings of the Audio Engineering Society (AES) International Conference on Semantic Audio*, pages 1–8, Ilmenau, Germany, 2011
- Thomas Völkel, Jakob Abeßer, Christian Dittmar, and Holger Großmann. Automatic Genre Classification of Latin American Music using Characteristic Rhythmic Patterns. In *Proceedings of the Audio Mostly Conference on Interaction with Sound*, Piteå, Sweden, 2010
- Michael Stein, Jakob Abeßer, Christian Dittmar, and Gerald Schuller. Automatic Detection of Audio Effects in Guitar and Bass Recordings. In *Proceedings of the Audio Engineering Society (AES) Convention*, pages 522–533, London, UK, 2010
- Christian Dittmar, Sascha Grollmisch, Hanna Lukashevich, Holger Großmann, Estefanía Cano, and Jakob Abeßer. Songs2See and GlobalMusic2One: Two Ongoing Projects in Music Information Retrieval Research at Fraunhofer IDMT. In *Proceeding of the International Symposium on Computer Music Modeling and Retrieval (CMMR)*, pages 259–272, Málaga, Spain, 2010. Springer-Verlag
- Jakob Abeßer, Paul Bräuer, Hanna Lukashevich, and Gerald Schuller. Bass Playing Style Detection Based on High-level Features and Pattern Similarity. In *Proceedings of the International Society for Music Information Retrieval Conference (ISMIR)*, pages 93–98, Utrecht, Netherlands, 2010
- Jakob Abeßer, Hanna Lukashevich, and Gerald Schuller. Feature-based Extraction of Plucking and Expression Styles of the Electric Bass Guitar. In *Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pages 2290–2293, Dallas, USA, 2010
- Jakob Abeßer, Hanna Lukashevich, Christian Dittmar, Paul Bräuer, and Fabienne Krause. Rule-based classification of musical genres from a global cultural background. In *Proceedings of the International Symposium on Computer Music Modeling and Retrieval (CMMR)*, Málaga, Spain, 2010
- Jakob Abeßer, Hanna Lukashevich, Christian Dittmar, and Gerald Schuller. Genre Classification using Bass-Related High-Level Features and Playing Styles. In *Proceedings of the International Society for Music Information Retrieval Conference (ISMIR)*, pages 453–458, Kobe, Japan, 2009
- Jakob Abeßer, Christian Dittmar, and Holger Großmann. Automatic Genre and Artist Classification by Analyzing Improvised Solo Parts from Musical Recordings. In *Proceedings of the Audio Mostly Conference on Interaction with Sound*, pages 127–131, Piteå, Sweden, 2008

Conference Papers (non peer-reviewed)

- Yuxuan He, Alexander Raake, and Jakob Abeßer. Integrating multiscale representation and re-evaluating channel shuffling in efficient time-frequency separate networks for acoustic scene classification. In *Proceedings of the DAS/DAGA 2025 - 51st Annual Meeting on Acoustics*, 2025
- Claudia Lenk, Yuxuang He, Alirheza Hosseini, Fang Zheng, Aayushmi Mukherjee, Jakob Abeßer, Lina Jaurigue, Kathy Lüdge, Alexander Raake, Tzvetan Ivanov, Iko Pieper, Paul Fritzsche, Jan Küller, Daniel Beer, Stefan Schöneich, Manuela Nowotny, Sebastian Uziel, Tino Hutschenreuther, and Martin Ziegler. Neurosensear: Neuromorphic acoustic sensing for the high-performance hearing aids of tomorrow. In *Proceedings of the DAS/DAGA 2025 - 51st Annual Meeting on Acoustics*, 2025

- Sascha Grollmisch, Ravi Kumar, and Jakob Abeßer. Semi-supervised learning for acoustic scene classification using fixmatch. In *Proceedings of the 51st Annual Meeting on Acoustics (DAS/DAGA)*, 2025
- Sascha Grollmisch, Jakob Abeßer, and Joachim Bös. Selbstüberwachtes vortraining zur verbesserung automatischer audioklassifikationsalgorithmen. In *Proceedings of the 50. Jahrestagung für Akustik (DAGA)*, 2024
- Jakob Abeßer, Sascha Grollmisch, and Joachim Bös. Aktuelle forschungsschwerpunkte in der akustischen ereignisdetektion. In *Proceedings of the 50. Jahrestagung für Akustik (DAGA)*, 2024
- Juan Manuel Rodríguez Mejía, Jakob Abeßer, Luca Cuccovillo, and Patrick Aichroth. Siren sounds as acoustic landmarks for content verification. In *Proceedings of the 50. Jahrestagung für Akustik (DAGA)*, 2024
- Hanna Lukashevich, Sascha Grollmisch, and Jakob Abeßer. Quantifying uncertainty in music genre classification. In *Proceedings of the 49. Jahrestagung für Akustik (DAGA)*, 2023
- Franca Bittner and Jakob Abeßer. An introduction to unsupervised domain adaptation in sound and music processing. In *Proceedings of the 49. Jahrestagung für Akustik (DAGA)*, 2023
- Sascha Grollmisch, Estefanía Cano, and Jakob Abeßer. Audio augmentations for semi-supervised learning with fixmatch. In *Late-Breaking Demo of the International Society for Music Information Retrieval Conference (ISMIR)*, 2022
- Jakob Abeßer, Xiaoyi Wang, Svenja Bänsch, Christoph Scherber, and Hanna Lukashevich. Analyzing Bird and Bat Activity in Agricultural Environments using AI-driven Audio Monitoring. In *Proceedings of the 48th Annual Conference on Acoustics (DAGA)*, Stuttgart, Germany, 2022
- Jakob Abeßer, Alexander Loos, and Prachi Sharpi. Construction-sAIt: Multimodal AI-driven technologies for construction site monitoring. In *Proceedings of the 48th Annual Conference on Acoustics (DAGA)*, Stuttgart, Germany, 2022