

NEWSLETTER 2021

RESEARCH ACTIVITIES

International project “Analysis, Creation, and Teaching Orchestration – ACTOR”

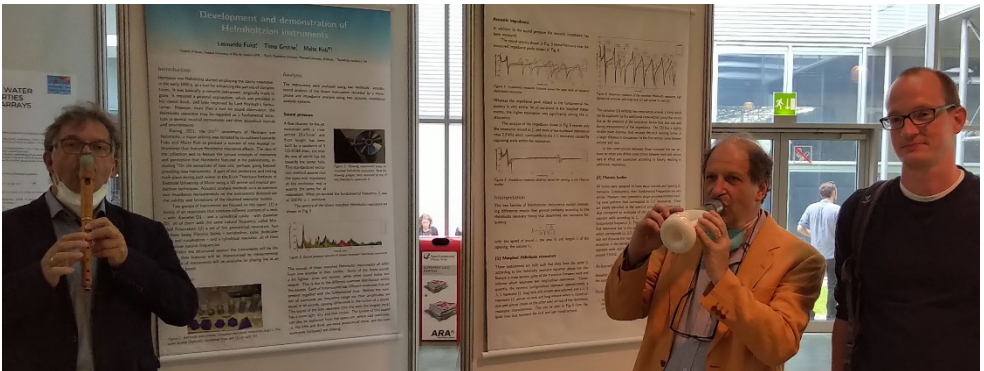
The ACTOR Partnership proposes to enhance attention to timbre and orchestration by bringing its musical use to the forefront of scholarship, practice, and public awareness with world-class artists, humanists, and scientists. This partnership links North American and European orchestration practice and pedagogy, stimulates the development of new creativity-enhancing digital tools for learning, creating, and studying orchestration practice and sensitizes young audiences to the wonders and

complexities of high-quality music. Current work at ETI includes recording, analysis & synthesis of blending of orchestral instrument groups as well as research on the interaction between musicians and performance spaces.



Information at <https://www.actorproject.org>

Construction and analysis and of musical instruments



DAGA 2021 in Vienna: Demonstration of self-made Helmholtzian musical instruments created during the research visit of Prof. Leonardo Fuks in 2020/21.

ITN project “Virtual Reality Audio for Cyber Environments – VRACE”

In the frame of this EU funded collaborative project 17 partners from universities and companies of 8 countries support research and education of 15 young scientists in the domain of virtual reality in joint research projects. The project part at ETI focusses on the investigation of ensemble sound generation and perception from e.g. string ensembles and choirs. Methods such as 3D measurement of radiation of musical instruments as well as the synthesis of virtual instruments and rooms are employed.



Information at <https://vrace-etn.eu>

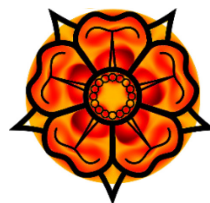
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RECENT PUBLICATIONS

- Malte Kob & Tobias A. Weege, "How to interpret early recordings? Artefacts and resonances in recording and reproduction of singing voices", In: Computational Phonogram Archiving; 335350, Rolf Bader (Ed.), Springer International Publishing (2019)
- Malte Kob, "The human mouth as a sound space", In: Sound Worlds from the Body to the City: Listen!, Ariane Wilson (Ed.), Cambridge Scholars Publishing (2019)
- Peter Pabon, David M. Howard, Sten Ternström, Malte Kob & Gerhard Eckel, "Future perspectives", In: The Oxford Handbook of Singing; Welch, Graham F. and Howard, David M. and Nix, John (Ed.), Oxford University Press (2019)
- Malte Kob (Ed.), Proceedings of the International Symposium on Music Acoustics 2019, DEGA (2019)
- Timo Grothe & Sebastià V. Amengual Garí, "Measurement of "Reed to Room" Transfer Functions", Acta Acustica United with Acustica 105 (2019)
- Karin Martensen, „The phonograph is not an opera house', Quellen und Analysen zu Ästhetik und Geschichte der frühen Tonaufnahme am Beispiel von Edison und Victor“, In: Technologien des Singens; Band 1, Rebecca Grotjahn, Malte Kob & Karin Martensen (Hrsg.), Allitera (2019)
- Malte Kob, „Wirkung des Raumklangs bei der Produktion und Wiedergabe von Radioaufnahmen“, In: Musiktheorie; Band 2/2020: „Komponieren für das Radio“, Camilla Bork & Antje Tumat (Hrsg.), Laaber (2020)
- Malte Kob, Sebastià V. Amengual Garí & Zora Schärer Kalkandjiev, "Room effect on musicians' performance", In: The Technology of Binaural Understanding; Jens Blauert & Jonas Braasch (Ed.), Springer (2020)
- Gerhard Aumüller & Malte Kob, "Vox Humana forms: Comparison of two historical sound concepts", Vox Humana (2020)
- Dieter Leckschat, Christian Epe, Malte Kob, Bernhard Seeber, Sascha Spors, Stefan Weinzierl & Franz Zotter, „DEGA-Memorandum Nr. VA 1201 zur Durchführung und Dokumentation von Audio-Produktionen für wissenschaftliche Anwendungen in der Akustik“, DEGA, Zenodo (2020)
- Isabel Schiller, Dominique Morsomme, Malte Kob & Angélique Remacle, "Noise and a speaker's impaired voice quality disrupt spoken language processing in school-aged children: Evidence from performance and response time measures", Journal of Speech Language and Hearing Research 63 (7) (2020)
- Sebastià V. Amengual Garí, Banu Sahin, Dustin Eddy & Malte Kob, "Open database of spatial room impulse responses at Detmold University of Music", Convention e-Brief 617, AES 149th Convention, Zenodo (2020)
- Timo Grothe & Johannes Baumgart, „Vorrichtung und Verfahren zur Impedanzmessung bei Blasinstrumenten“, Patent DE102019008203B3 (2021)
- Tilo Hähnel, „Wie Körper Schule macht. Eine Studie zur Gesangstechnik im Körperdiskurs an ausgewählten Gesangsschulen um 1900“, In: Technologien des Singens; Band 2, Rebecca Grotjahn, Malte Kob & Karin Martensen (Hrsg.), Allitera (2021)
- Isabel Schiller, Dominique Morsomme, Malte Kob & Angélique Remacle, "Listening to a dysphonic speaker in noise may impede children's spoken language processing in a realistic classroom setting", Language Speech and Hearing Services in Schools 52 (1) (2021)
- Otavio Colella Gomes, Winfried Lachenmayr, Jithin Thilakan & Malte Kob, "Anechoic multi-channel recordings of individual string quartet musicians", i3dA, Zenodo (2021)

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International Symposium on Music Acoustics
Organised by ETI & DEGA – <http://isma2019.de>

More publications and up-to-date information are available at
<http://www.hfm-detmold.de/die-hochschule/forschung>
<https://www.eti.hfm-detmold.de/en/science-and-research>