Preisverleihung 2024
5. FAIRest Dataset Wettbewerb

FAIRest Dataset Wettbewerb

Bewertung

1. Schritt: unabhängige Bewertung mit dem FAIR self-assessment tool (ARDC) durch je 2 Mitgliedern des TKFDM

2. Scholl: Bewertung durch das Automated FAIR Data Assessment Tool: F-UJI

3. Schritt: Vergleich und Verifizierung der Ergebnisse der Schritte 1 und 2

4. Schritt: Auswahl der besten Datensätze und Identifizierung der Gewinner

And the winner is ...

FAIRest Dataset Wettbewerb

Gewinner 2024:

***Georg Stolz**, Georg Götz, Lukas Treybig, Stephan Werner, Florian Klein*

Technische Universität Ilmenau
Fachgebiet Elektronische Medientechnik

FAIRest Dataset Wettbewerb

zenodo

Search records...   Communities   My dashboard   Log in   Sign up

DEGA Audio Signal Database for Testing in Virtual Acoustics (german/english)

Published February 26, 2024 | Version v1

Dataset   Open

Spatial Room Impulse Response Dataset: A Robot's Journey Through Coupled Rooms of a Reverberant University Building

Stolz, Georg[1]; Götz, Georg[2]; Treybig, Lukas[1]; Werner, Stephan[1]; Klein, Florian[1]

Show affiliations

This is a dataset of Spatial Room Impulse Responses obtained by a robot equipped with a microphone array.

The measurements were conducted in a reverberant university building, the *Helmholtz* building at *Technische Universität Ilmenau* (coordinates: N50.6815788133375°, E10.939294371903342°). All the floors in the building are covered with bare stone tiles, the walls are not acoustically treated. Only the hallway has a suspended acoustic ceiling. The file "Pictures Overview.jpg" shows some impressions of the building. Note that the floorplan only shows parts of the building that were connected to the measurement area by open doors.

The area covered by the robot is in a hallway on the top floor (2nd floor starting with ground floor) with two stairwells at both ends. To specifically study the behavior of coupled rooms and occluded sources, the sound sources were placed in adjacent sections of the building and on multiple floors. See the file "Measurement Overview.jpg" for an overview of the source positions and the receiver areas covered. Areas 2 and 3 were captured with a higher spatial resolution than area 1 to analyze the transition between the hallway and the staircases. The receiver positions form a uniform grid, the pitch between positions is shown in the following table. Due to time and technical constraints, only a maximum of 3 sources were used per run, so there are not all combinations of sources and receiver areas. Refer to the following table to see which source was active for which area and which zip file contains the according data:

Filename	Sources	Receiver Area	Receiver Positions [ct]	Pitch [cm]
Helmholtzbau_OG2_HM_HS.zip	HM, HS	Area 1	143	50

Versions

Version v1   Feb 26, 2024
10.5281/zenodo.10708306

Cite all versions? You can cite all versions by using the DOI 10.5281/zenodo.10708305. This DOI represents all versions, and will always resolve to the latest one. Read more.

External resources

Indexed in

OpenAIRE

FDM THÜRINGEN