Anechoic Recordings

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Introduction

In autumn 2012 we recorded some basic anechoic samples for auralization purposes in VAEs[1]. We recorded two flamenco pieces played by Michio Woirgard[2] and two blues/pop pieces each with two acoustic guitars played by Philipp Stade and vocals by Jeffrey Amankwor. The recordings were performed in the anechoic chamber at the Cologne University of Applied Sciences, Institute of Communication Engineering. The engineering was done by Benjamin Bernschütz and Johannes Arend.

Source

The samples can be downloaded at http://www.audiogroup.web.fh-koeln.de.

Reference

If you use the recordings in public presentations or for any kind of distribution, please state the authorship: *"Cologne University of Applied Sciences - Anechoic Recordings,"* Michio Woirgard, Philipp Stade, Jeffrey Amankwor, Benjamin Bernschütz and Johannes Arend, 2012

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[1] VAE - Virtual Acoustic Environment
[2] Michio Woigard: http://de.wikipedia.org/wiki/Michio

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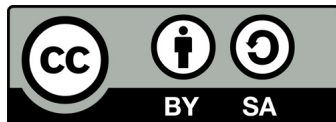
Mircrophones and Preamps

Different microphones have been used for each track (e.g. Neumann U89, Microtech Gefell M296S, AKG C414). All microphones were positioned at certain distance to the source to avoid any proximity effect, plop-noises or ess-harshness. We uploaded only the final choice of tracks that to us seemed to sound most neutral and natural for the purpose of auralization in VAEs. If you urgently need different microphone signals for any reason, contact us. We used a RME UCX Interface including the on-board preamps and an additional RME QuadMic preamp. The recording was done in Ableton Live 8.

Files

The recordings are stored in wave files at a sampling rate of 48000Hz. Some of the tracks are truncated (incl. dithering) to 16Bit. Besides cutting and normalizing the tracks, no further post processing like equalizing or compression has been applied. For the use in VAE playback we wanted to maintain the original dynamics and a neutral sound color. This indeed is very different to typical music production.

Contents

Flamenco

- /Flamenco_1: Flamenco1_U89.wav

- /Flamenco_2: Flemenco2_U89.wav

Each one single file 24Bit/48000Hz recorded with a Neumann U89.

Blues/Pop

- /BluesA: BluesA_GitL.wav, BluesA_GitR.wav, BluesA_Voc.wav

- /HellOfAGuy: HellOfAGuy_GitL.wav, HellOfAGuy_GitR.wav, HellOfAGuy_Voc.wav

Each three files 16Bit/48000Hz recorded with a Microtech Gefell M296S.

Pictures

Michio Woirgard (Flamenco Guitars)

Philipp Stade (Guitars)

Jeffrey Amankwor (Vocals)