

Desktop Acousmonium & Live Coding Performance

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Abstract:

We are exploring new ways to enjoy music. As part of this, we work on enjoying music of various genres in a unique 3D sound in this study. Specifically, we aim to realize a multi-dimensional sound system called Acousmonium in a simple and flexible way and control it by live coding. Acousmonium is a performance tool equivalent to an instrument in electroacoustic music, but it is a simple device that operates many speakers with faders and can only adjust the speaker volume. In addition, electroacoustic music is a unique type of music that does not have a clear melody and is generally unfamiliar to most people. In this study, we will realize such an Acousmonium on a PC in a simple manner (Desktop Acousmonium), and make it a performance tool that allows us to flexibly enjoy music of various genres in 3D sound. Specifically, we will change the physical fader operation to a live coding operation, and make it possible to flexibly change the output speaker for each tone and soundtrack. Through this study, Acousmonium will become a live coding tool that allows you to enjoy the music of various genres in a unique 3D sound.

Keywords:

Acousmonium, Live Coding, 3D Sound, Acousmatic Music.