



SysSon - A Framework for Systematic Sonification Design

Katharina Vogt, Visda Goudarzi, and Hanns Holger Rutz

University of Music and Performing Arts Graz, Institute for Electronic Music and Acoustics, Graz, Austria (vogt@iem.at)

SysSon is a research approach on introducing sonification systematically to a scientific community where it is not yet commonly used - e.g., in climate science. Thereby, both technical and socio-cultural barriers have to be met. The approach was further developed with climate scientists, who participated in contextual inquiries, usability tests and a workshop of collaborative design.

Following from these extensive user tests resulted our final software framework. As frontend, a graphical user interface allows climate scientists to parametrize standard sonifications with their own data sets. Additionally, an interactive shell allows to code new sonifications for users competent in sound design. The framework is a standalone desktop application, available as open source (for details see <http://sysson.kug.ac.at/>) and works with data in NetCDF format.