

MIRtoolbox demo

Olivier Lartillot, Petri Toiviainen, Tuomas Eerola
Finnish Centre of Excellence in Interdisciplinary Music Research
University of Jyväskylä, Finland
http://www.jyu.fi/music/coe/materials/mirtoolbox

Content

This demo gives a broad introduction to *MIRtoolbox*, explaining the general motivation and philosophy, and showing an overview of the capabilities offered by the toolbox. The presentation will be adapted to the particular needs and interests of the audience. This might also be the occasion for more advanced users to ask specific questions, give feedback, and discover the recently added features.

Brief description of MIRtoolbox

MIRtoolbox is a Matlab toolbox dedicated to the extraction of musical features from audio files, including routines for statistical analysis, statistical mapping, segmentation and clustering. MIRtoolbox integrates a user-friendly syntax that enables to easily combine low and high-level operators into complex flowcharts. The modular design of MIRtoolbox is guided by a philosophy of expertise capitalization: techniques developed for certain domains of music analysis are turned into general operators that could be used for different analytical purposes. Memory management mechanisms allow the analysis of large-scale corpus, through the integration of automated chunk decomposition mechanisms and of distinctive processes for flowchart design and evaluation. The new version 1.2 includes tools for statistical mapping between extracted features for a given musical database, and a set of numerical ratings related to the same database.