

c4dm.eecs.qmul.ac.uk/multitrack/MixEvaluation/

1 Motivation

- Mixing multitrack music is multidimensional and subjective
- Severe lack of data for research on best practices
 - Copyright
 - Reluctance to share unpolished work
 - Limited access to parameter settings
- Many studies resort to lab-based mix creation

2 Dataset

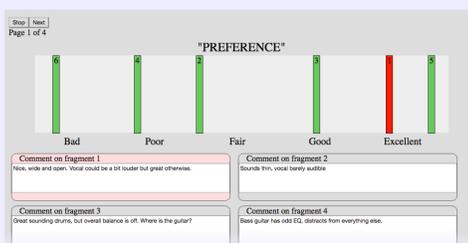
Mix creation

- 180 mixes from sound engineering students in four different countries
- Ecological relevance: preferred environment/tools
- Access to
 - High resolution mixes
 - Raw tracks
 - DAW session files (parameter settings)
 - Processed stems
 - Metadata including instrument labels

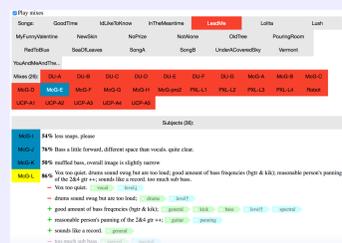
Perceptual evaluation

- 5000 mix evaluations from five different countries
- Hedonic preference ratings and comments
- Detailed annotation of comments
- Subject demographics and surveys

	McG	MG	QM	SMC	DU	PXL	UCP	TOTAL
Country	Canada		United Kingdom		Sweden	Belgium	Portugal	
#subjects	33	8	21	26	39	13	10	150
#songs	10	4	13	14	3	4	7	18
#mixes	98	40	111	116	21	23	42	181
#evaluations	1444	310	1129	639	805	236	310	4873
#statements	4227	585	2403	1190	2331	909	1051	12696
#words/comment	13.39	11.76	11.32	12.39	18.95	31.94	25.21	15.25
Male/female	28/5	7/1	18/3	14/12	33/6	13/0	9/1	122/28
Loudspeakers/headphones	LS	HP	LS	HP	LS	LS	LS	



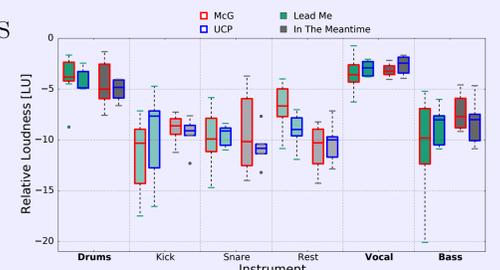
Example listening test interface
(Web Audio Evaluation Tool)



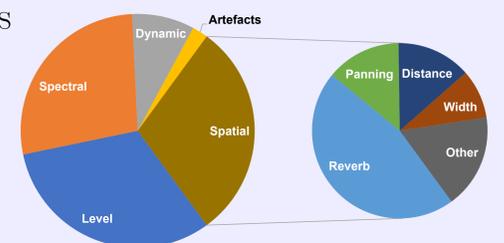
The Mix Evaluation Dataset
browser interface

3 Applications

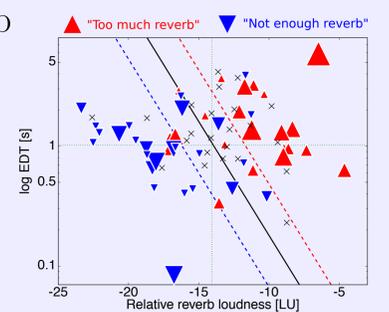
- Audio feature analysis
(De Man 2014)



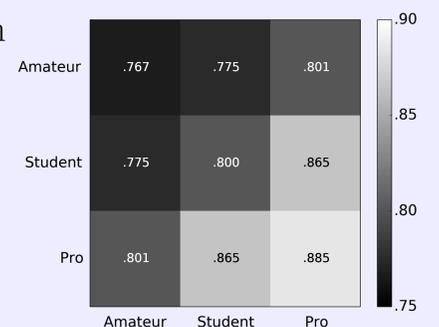
- Impact of features on preference (De Man 2015)
- Comment analysis
(De Man 2015)



- Subgrouping practices (Ronan 2015)
- Use and perception of reverb
(De Man 2017)



- Impact of expertise on agreement of statements



- Peer reviews relevant to educators and students
- ...?

4 Contribute

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- Donate multitrack audio
- Create mixes
- Participate in listening tests