

THE 2008 MUSIC INFORMATION RETRIEVAL EVALUATION EXCHANGE (MIREX 2008) RESULTS OVERVIEW

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MIREX Task Results

Audio Genre Classification (GenreMixed)		
Rank	Participant	Accuracy
1	Tzanetakis, G. (stereo)	66.41%
2	Tzanetakis, G. (parallel)	65.62%
3	Mandel & Ellis (1)	65.41%
4	Mandel & Ellis (2)	65.30%
5	Mandel & Ellis (3)	65.20%
6	Lidy, Rauber, Pertusa & Ponce de León, Iñesta (1)	65.06%
7	Tzanetakis, G. (mono)	64.71%
8	Peeters, G.	63.90%
9	Cao & Li (2)	63.39%
10	Lidy, Rauber, Pertusa & Ponce de León, Iñesta (2)	62.26%
11	Cao & Li (1)	62.04%
12	Lidy, Rauber, Pertusa & Ponce de León, Iñesta (3)	60.84%
13	Lidy, Rauber, Pertusa & Ponce de León, Iñesta (4)	60.46%

Audio Artist Identification		
Rank	Participant	Accuracy
1	Mandel & Ellis (1)	47.65%
2	Mandel & Ellis (3)	47.25%
3	Mandel & Ellis (2)	47.16%
4	Tzanetakis, G. (stereo)	43.47%
5	Lidy, Rauber, Pertusa & Iñesta (1)	35.42%
6	Tzanetakis, G. (parallel)	35.27%
7	Tzanetakis, G. (mono)	33.66%
8	Lidy, Rauber, Pertusa & Iñesta (2)	33.20%
9	Lidy, Rauber, Pertusa & Iñesta (4)	32.52%
10	Lidy, Rauber, Pertusa & Iñesta (3)	29.87%
11	Peeters, G.	1.11%

Multi F0 Estimation		
Rank	Participant	Accuracy
1	Yeh, Roebel & Chang (2)	0.665
2	Yeh, Roebel & Chang (1)	0.619
3	Pertusa & Iñesta (2)	0.618
4	Ryynänen & Klapuri	0.613
5	Pertusa & Iñesta (1)	0.596
6	Vincent, Bertin & Badeau	0.540
7	Durrieu, Richard & David	0.495
8	Cao & Li (2)	0.487
9	Egashira, Ono & Sagayama	0.467
10	Emiya, Badeau & David (2)	0.452
11	Emiya, Badeau & David (1)	0.447
12	Groble, M.	0.427
13	Cao & Li (1)	0.358
14	Reis, Fernandez & Ferreira (1)	0.211
15	Reis, Fernandez & Ferreira (2)	0.183

Audio Chord Detection (PreTrained)		
Rank	Participant	Overlap Score
1	Bello & Pickens	0.66
2	Mehnert, M.	0.65
3	Ryynänen & Klapuri	0.64
4	Papadopoulos & Peeters	0.63
	Khadkevich & Omologo	0.63
6	Lee, K. (pretrained 2)	0.59
	Pauwels, Varewyck & Martens	0.59
8	Lee, K. (pretrained 1)	0.56

Audio Classical Composer Identification		
Rank	Participant	Accuracy
1	Mandel & Ellis (1)	53.25%
2	Mandel & Ellis (2)	53.10%
3	Mandel & Ellis (3)	52.89%
4	Peeters, G.	48.99%
5	Tzanetakis, G. (stereo)	45.82%
6	Tzanetakis, G. (parallel)	43.81%
7	Lidy, Rauber, Pertusa & Iñesta (4)	39.54%
8	Tzanetakis, G. (mono)	39.47%
9	Lidy, Rauber, Pertusa & Iñesta (3)	37.48%
10	Lidy, Rauber, Pertusa & Iñesta (2)	39.43%
11	Lidy, Rauber, Pertusa & Iñesta (1)	34.13%

Multi F0 Note Tracking		
Rank	Participant	Avg. F-Measure
1	Ryynänen & Klapuri	0.614
2	Yeh, Roebel & Chang	0.552
3	Zhou & Reiss (3)	0.530
4	Vincent, Bertin & Badeau	0.521
5	Zhou & Reiss (2)	0.520
6	Zhou & Reiss (1)	0.518
7	Egashira, Ono & Sagayama	0.503
8	Pertusa & Iñesta (1)	0.470
9	Emiya, Badeau & David (1)	0.417
10	Pertusa & Iñesta (2)	0.396
11	Emiya, Badeau & David (2)	0.384
12	Reis, Fernandez & Ferreira (1)	0.140
13	Reis, Fernandez & Ferreira (2)	0.132

Audio Chord Detection (TrainTest)		
Rank	Participant	Overlap Score
1	Uchiyama, Miyamoto & Sagayama	0.72
2	Ellis, D.	0.66
3	Weil & Durrieu (2)	0.62
4	Weil, J. (1)	0.60
5	Lee, K. (withtrain)	0.58
6	Khadkevich & Omologo	0.55
7	Zhang & Lash	0.36

Audio Genre Classification (GenreLatin)		
Rank	Participant	Accuracy
1	Cao & Li (1)	65.17%
2	Cao & Li (2)	64.04%
3	Peeters, G.	62.72%
4	Lidy, Rauber, Pertusa & Ponce de León, Iñesta (2)	62.23%
5	Lidy, Rauber, Pertusa & Ponce de León, Iñesta (3)	59.55%
6	Lidy, Rauber, Pertusa & Ponce de León, Iñesta (4)	59.00%
7	Lidy, Rauber, Pertusa & Ponce de León, Iñesta (1)	58.64%
8	Mandel & Ellis (3)	54.99%
9	Mandel & Ellis (2)	54.70%
10	Mandel & Ellis (1)	54.15%
11	Tzanetakis, G. (stereo)	53.79%
12	Tzanetakis, G. (parallel)	53.67%
13	Tzanetakis, G. (mono)	53.65%

Audio Cover Song Identification		
Rank	Participant	Precision
1	Serrà, Gómez & Herrera (1)	0.75
2	Serrà, Gómez & Herrera (2)	0.66
3	Egorov & Linetsky (2)	0.56
	Egorov & Linetsky (3)	0.56
5	Egorov & Linetsky (1)	0.55
6	Cao & Li (1)	0.34
	Cao & Li (2)	0.34
8	Jensen, Christensen & Jensen	0.23

Query by Singing/Humming (Jang's Collection)		
Rank	Participant	MRR
1	Ryynänen & Klapuri	0.93
	Wang, L. (1)	0.93
3	Wu & Li (1)	0.92
4	Wu & Li (2)	0.91
5	Jang & Lee (3)	0.82
6	Jang & Lee (1)	0.81
7	Jang & Lee (4)	0.72
8	Jang & Lee (2)	0.69

Audio Melody Extraction (MIREX 2008 Dataset)		
Rank	Participant	Accuracy
1	Durrieu, Richard & David (gmm)	76.0%
2	Ryynänen & Klapuri	75.3%
3	Durrieu, Richard & David (imm)	75.0%
4	Cancela, P.	73.3%
5	Rao & Rao	66.7%
6	Cao, Li, Liu & Yan (1)	51.4%
7	Cao, Li, Liu & Yan (2)	49.7%

Audio Mood Classification		
Rank	Participant	Accuracy
1	Peeters, G.	63.67%
2	Tzanetakis, G. (parallel)	58.20%
3	Lidy, Rauber, Pertusa & Iñesta (1)	56.00%
4	Lidy, Rauber, Pertusa & Iñesta (2)	55.50%
	Lidy, Rauber, Pertusa & Iñesta (4)	55.50%
6	Tzanetakis, G. (mono)	55.00%
7	Lidy, Rauber, Pertusa & Iñesta (3)	54.50%
8	Tzanetakis, G. (stereo)	52.50%
9	Mandel & Ellis (1)	50.33%
10	Mandel & Ellis (2)	50.00%
11	Lee, K.	49.83%
12	Mandel & Ellis (3)	49.67%
13	Wang, H.	30.33%

Audio Tag Classification		
Rank	Participant	Avg. F-Measure
1	Barrington, Turnbull & Lanckriet	0.28
2	Mandel & Ellis (2)	0.26
	Mandel & Ellis (3)	0.26
4	Mandel & Ellis (1)	0.24
5	Bertin-Mahieux, Eck, Bengio & Lamere (T/L boosting)	0.19
6	Bertin-Mahieux (dumb/smurf)	0.15
	Bertin-Mahieux, Bengio & Eck (nnet)	0.15
8	Bertin-Mahieux, Bengio & Eck (knn)	0.06
9	Trohidis, Tsoumakas, Kalliris & Vlahavas	0.04
10	Peeters, G. (1)	0.03
11	Peeters, G. (2)	0.02

Query by Singing/Humming (ThinkIT Collection)		
Rank	Participant	MRR
1	Wang, L. (3)	0.94
	Wu & Li (1)	0.94
3	Wang, L. (2)	0.92
	Wu & Li (2)	0.92
5	Ryynänen & Klapuri	0.89
6	Jang & Lee (4)	0.59
7	Jang & Lee (2)	0.53
8	Jang & Lee (1)	0.32
	Jang & Lee (3)	0.32

Audio Melody Extraction (MIREX 2005 Dataset)		
Rank	Participant	Accuracy
1	Cancela, P.	69.8%
2	Durrieu, Richard & David (imm)	66.0%
3	Rao & Rao	64.9%
4	Ryynänen & Klapuri	63.5%
5	Cao, Li, Liu & Yan (2)	61.4%
6	Durrieu, Richard & David (gmm)	52.2%
7	Cao, Li, Liu & Yan (1)	48.9%

Audio Melody Extraction (ADC 2004 Dataset)		
Rank	Participant	Accuracy
1	Cancela, P.	85.1%
2	Durrieu, Richard & David (imm)	81.5%
3	Ryynänen & Klapuri	78.8%
4	Rao & Rao	70.1%
5	Cao, Li, Liu & Yan (2)	68.0%
6	Durrieu, Richard & David (gmm)	59.6%
7	Cao, Li, Liu & Yan (1)	50.2%

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Score Following		
Rank	Participant	Precision
1	Montecchio & Orio (1)	TBA
2	Montecchio & Orio (2)	TBA
3	Macrae, R.	TBA

Query by Tapping		
Rank	Participant	MRR
1	Typke, R.	0.52
2	Hsiao, S-J. (2)	0.51
3	Lee, H-R. (1)	0.30
4	Hsiao, S-J. (1)	0.18
5	Lee, H-R. (2)	0.05