

Music & the Internet

MUMT 301

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Plan

- Music Libraries
 - Presentation by Cathy Martin, Liaison Librarian, Marvin Duchow Music Library, McGill University
- Music Scores
- Music Information Retrieval
- CIRMMT Lab Visit (~3:30pm)
- Music Technology Area Labs Visit

Music Scores

- [IMSLP](#)
- [List of Online Digital Musical Document Libraries \(wikipedia\)](#)
- [Liber Usualis](#)
- [Salzинnes Manuscript](#)
- Guitar tabs
 - [Chordie](#)
 - [Ultimate Guitar](#)
 - [E-chords \(Firefox\)](#)

Online Music Editors

- Noteflight

Music Information Retrieval (i)

- Similarity
- Recognition / Analysis /Classification
- Transcription and annotations
- Query
- Knowledge representation
- Human-computer interaction and interfaces
- Corpora and databases
- Socio-cultural aspects
- Intellectual property issues
- Evaluation of MIR systems

Music Information Retrieval (ii)

- Similarity
 - Melody, timbre, rhythm, form, style, tempo, mood, etc.
- Recognition / Analysis /Classification
 - Instrument, timbre, singer identification
 - Structural analysis
 - Style analysis
 - recommendation system
 - playlist generation
 - Optical music recognition
- Knowledge Representation
 - Standards (metadata, audio file formats, symbolic, song / artist unique IDs)
 - Summarizations
 - Taxonomy (categorization: genre, tags, mood, etc.)
 - Indexing and metadata

Music Information Retrieval (iii)

- Human-computer interaction and interfaces
 - Usability
 - Multi-modal user interfaces
 - Visualization tools
 - <http://musicmachinery.com/2009/03/23/the-loudness-war/>
 - <http://rama.inescporto.pt/app/>
 - <http://www.mikemake.com/#72772/Charting-the-Beatles>
 - Mobile applications
- Corpora and databases
 - Digital music libraries and archives
 - Text and web mining
 - Web services and APIs

Music Information Retrieval (iv)

- Socio-cultural aspects
 - Business models
 - Music and cultural heritage valorization
 - Non-Western music
 - Personalization / privacy
- Intellectual property issues
 - Watermarking
 - Digital rights management
- Evaluations of MIR systems
 - User need and expectations
 - Building test collections (ground truth)
 - Experimental design
 - Metrics and benchmarks
 - MIREX: The Music Information Retrieval Evaluation eXchange
 - Annual evaluation campaign for MIR algorithm hosted by UIUC