

Paper Sessions and Times

Monday 12th September

10:00-10:40am - Session 1: MIR General

J. H. Lee, J. S. Downie & S. J. Cunningham
Challenges in Cross-Cultural/Multilingual Music Information Seeking

Cynthia M. Grund
Music Information Retrieval, Memory and Culture: Some Philosophical Remarks

11:00-12:40pm - Session 2: Music Classification

Noris Mohd Norowi, Shyamala C. Doraisamy & Rahmita Wirza O.K. Rahmat
Factors Affecting Automatic Genre Classification: An Investigation Incorporating Non-Western Musical Forms

Markus Schedl, Peter Knees & Gerhard Widmer
Discovering and Visualizing Prototypical Artists by Web-Based Co-Occurrence Analysis

Ian Knopke
Geospatial Location of Music and Sound Files for Music Information Retrieval

Thomas Lidy & Andreas Rauber
Evaluation of Feature Extractors and Psycho-Acoustic Transformations for Music Genre Classification

Cory McKay, Rebecca Fiebrink, Daniel McEnnis, Beinan Li & Ichiro Fujinaga
ACE: A Framework for Optimizing Music Classification

4:20-6:00pm - Session 3a: Annotation of Musical Data

Koen Tanghe, Micheline Lesaffre, Sven Degroeve, Marc Leman, Bernard De Baets & Jean-Pierre Martens
Collecting Ground Truth Annotations for Drum Detection in Polyphonic Music

Gavin Wood & Simon O'Keefe
On Techniques for Content-Based Visual Annotation to Aid Intra-Track Music Navigation

Christopher Harte, Mark Sandler, Samer Abdallah & Emilia Gomez
Symbolic Representation of Musical Chords: A Proposed Syntax for Text Annotations

Mika Kuuskankare & Mikael Laurson

Annotating Musical Scores in ENP

Perfecto Herrera, Oscar Celma, Jordi Massaguer, Pedro Cano, Emilia Gomez, Fabien Gouyon & Markus Koppenberger
MUCOSA: A Music Content Semantic Annotator

4:20-6:00pm - Session 3b: Audio to Score

Shoichiro Saito, Hirokazu Kameoka, Takuya Nishimoto & Shigeki Sagayama
Specmurt Analysis of Multi-Pitch Music Signals with Adaptive Estimation of Common Harmonic Structure

Olivier Gillet & Gael Richard
Drum Track Transcription of Polyphonic Music Using Noise Subspace Projection

Nick Collins
Using a Pitch Detector for Onset Detection

Parag Chordia
Segmentation and Recognition of Tabla Strokes

Hirokazu Kameoka, Takuya Nishimoto & Shigeki Sagayama
Harmonic-Temporal Clustering via Deterministic Annealing EM Algorithm for Audio Feature Extraction

Tuesday 13th September

9:00-10:40am - Session 1: MIR Systems

Jenn Riley

Exploiting Musical Connections: A Proposal for Support of Work Relationships in a Digital Music Library

Ajay Kapur, Richard I. McWalter & George Tzanetakis
New Music Interfaces for Rhythm-Based Retrieval

Ioannis Karydis, Alexandros Nanopoulos, Apostolos Papadopoulos, Dimitrios Katsaros & Yannis Manolopoulos
Content-Based Music Information Retrieval in Wireless Ad-Hoc Networks

Eric Isaacson

What You See Is What You Get: on Visualizing Music

Rainer Typke, Frans Wiering & Remco C. Veltkamp
A Survey of Music Information Retrieval Systems

11:00-12:40pm - Session 2: Motivic and Melodic Analysis and Retrieval

Graham E. Poliner & Daniel P. W. Ellis

A Classification Approach to Melody Transcription

Emilios Cambouropoulos, Maxime Crochemore, Costas S. Iliopoulos, Manal Mohamed & Marie-France Sagot

A Pattern Extraction Algorithm for Abstract Melodic Representations that Allow Partial Overlapping of Intervallic Categories

Rui Pedro Paiva

On the Detection of Melody Notes in Polyphonic Audio

Wei-Ho Tsai, Hung-Ming Yu & Hsin-Min Wang

A Query-By-Example Technique for Retrieving Cover Versions of Popular Songs with Similar Melodies

Olivier Lartillot

Efficient Extraction of Closed Motivic Patterns in Multi-Dimensional Symbolic Representations of Music

4:20-5:40pm - Session 3a: Alignment and Retrieval

Norman Adams, Daniela Marquez & Gregory Wakefield

Iterative Deepening for Melody Alignment and Retrieval

Jeremy Pickens & Costas Iliopoulos
Markov Random Fields and Maximum Entropy Modeling for Music Information
Retrieval

Bryan Pardo & Manan Sanghi
Polyphonic Musical Sequence Alignment for Database Search

Ning Hu & Roger B. Dannenberg
A Bootstrap Method for Training an Accurate Audio Segmenter

4:20-5:40pm - Session 3b: Optimised and Efficient Methods

Pierre Roy, Jean-Julien Aucouturier, Francois Pachet & Anthony Beurive
Exploiting the Tradeoff Between Precision and Cpu-Time to Speed Up Nearest Neighbor
Search

Nancy Bertin, Alain de Cheveigne
Scalable Metadata and Quick Retrieval of Audio Signals

Charles Parker
Applications of Binary Classification and Adaptive Boosting to the Query-By-Humming
Problem

Ming Li & Ronan Sleep
Genre Classification via an LZ78-Based String Kernel

Wednesday 14th September

9:40-10:40am - Session 1: Music Similarity

Arthur Flexer, Elias Pampalk & Gerhard Widmer
Novelty Detection Based on Spectral Similarity of Songs

Richard Stenzel & Thomas Kamps
Improving Content-Based Similarity Measures by Training a Collaborative Model

Fabio Vignoli & Steffen Pauws
A Music Retrieval System Based on User Driven Similarity and Its Evaluation

11:00-12:40pm - Session 2: Harmonic-based Analysis and Retrieval

David Meredith & Geraint Wiggins
Comparing Pitch Spelling Algorithms

Meinard Mueller, Frank Kurth & Michael Clausen
Audio Matching via Chroma-Based Statistical Features

Ching-Hua Chuan & Elaine Chew
Fuzzy Analysis in Pitch-Class Determination for Polyphonic Audio Key Finding

Juan P. Bello & Jeremy Pickens
A Robust Mid-Level Representation for Harmonic Content in Music Signals

Jean-Francois Paiement, Douglas Eck & Samy Bengio
A Probabilistic Model for Chord Progressions

4:20-5:40pm - Session 3: Voice/Instrument Analysis, Classification and Segregation

Slim ESSID, Gael Richard & Bertrand David
Inferring Efficient Hierarchical Taxonomies for MIR Tasks: Application to Musical Instruments

Hiromasa Fujihara, Tetsuro Kitahara, Masataka Goto, Kazunori Komatani, Tetsuya Ogata & Hiroshi G. Okuno
Singer Identification Based on Accompaniment Sound Reduction and Reliable Frame Selection

Shankar Vembu & Stephan Baumann
Separation of Vocals from Polyphonic Audio Recordings

Norman Casagrande, Douglas Eck & Balazs Kegl
Frame-Level Audio Feature Extraction Using AdaBoost

Thursday 15th September

9:20 – 10:40am - Session 1: Rhythmic and Structural Analysis

Petri Toiviainen & Tuomas Eerola

Classification of Musical Metre with Autocorrelation and Discriminant Functions

Masatoshi Hamanaka, Keiji Hirata & Satoshi Tojo

ATTA: Automatic Time-Span Tree Analyzer Based on Extended GTTM

Roger B. Dannenberg

Toward Automated Holistic Beat Tracking, Music Analysis and Understanding

Kristoffer Jensen, Jieping Xu & Martin Zachariassen

Rhythm-Based Segmentation of Popular Chinese Music

11:00-12:40pm - Session 2: User Interfaces, Visualisation and Interaction

Frank Kurth, Meinard Mueller, David Damm, Christian Fremerey, Andreas Ribbrock & Michael Clausen

Synclayer - An Advanced System for Multimodal Music Access

Richard Lobb, Tim Bell & David Bainbridge

Fast Capture of Sheet Music for an Agile Digital Music Library

Fabian Morchen, Alfred Ultsch, Mario Nocker & Christian Stamm

Databionic Visualization of Music Collections According to Perceptual Distance

Masataka Goto & Takayuki Goto

Musicream: New Music Playback Interface for Streaming, Sticking, Sorting, and Recalling Musical Pieces

Jean-Julien Aucouturier & Francois Pachet

Ringomatic: A Real-Time Interactive Drummer Using Constraint-Satisfaction and Drum Sound Descriptors