



2017 AES International Conference on Semantic Audio

Saturday, June 24th

9.00 - 12.00	Registration	Hospitality Desk
9.30 - 11.00	Oral Session: Deep Learning <i>Rainer Kelz and Gerhard Widmer, An Experimental Analysis of the Entanglement Problem in Neural-Network-based Music Transcription Systems</i> <i>Jakob Abeßer, Stefan Balke, Klaus Frieler, Martin Pfeiderer and Meinard Müller, Deep Learning for Jazz Walking Bass Transcription</i> <i>Alice Cohen-Hadria and Geoffroy Peeters, Music Structure Boundaries Estimation Using Multiple Self-Similarity Matrices as Input Depth of Convolutional Neural Networks</i>	IIS Lecture Room
11.00 - 11.30	Coffee Break	IIS Foyer
11.30 - 12.30	Invited Talk: <i>Masataka Goto, Developing Web Services for Web-Native Music</i>	IIS Lecture Room
12.30 - 13.00	Closing Session and Award Ceremony	IIS Lecture Room
13.00 - 14.00	Small Lunch	IIS Cantina

June 22-24, 2017

Tutorial Day:

June 21, 2017

Fraunhofer IIS, Erlangen, Germany

Welcome to the 2017 AES International Conference on Semantic Audio.

Semantic Audio is concerned with the extraction of meaning from audio signals and with the development of applications that use this information to support the user in identifying, organizing, and exploring audio signals, and interacting with them. These applications include music information retrieval, semantic web technologies, audio production, sound reproduction, education, and gaming.

This conference will be the third AES international conference on the topic and will provide the opportunity to present and discuss the latest advancements in the field. The conference is jointly organized by the Fraunhofer Institute for Integrated Circuits IIS, the Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), and the International Audio Laboratories Erlangen (AudioLabs).

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2017 AES International Conference on Semantic Audio

PROGRAMME

Wednesday, June 21st

11.30 - 19.00	Registration	IIS Foyer
12.00 - 13.00	Lunch	IIS Cantina
13.00 - 14.15	Tutorial 1: <i>Alexander Lerch, Stefan Weinzierl</i> , Music Performance Analysis	IIS Lecture Room
14.15 - 15.45	Coffee Break	IIS Foyer
15.45 - 17.00	Tutorial 2: <i>Stefania Serafin</i> , Sonic Interactions for Virtual Reality Applications	IIS Lecture Room
17.00 - 17.30	Coffee Break	IIS Foyer
17.30 - 18.45	Tutorial 3: <i>Christian Dittmar</i> , Phase Reconstruction from Magnitude Spectrograms	IIS Lecture Room
19.00 - 21.00	Welcome Reception	IIS Foyer

Thursday, June 22nd

9.00 - 12.00	Registration	IIS Foyer
9.30 - 10.00	Welcome	IIS Lecture Room
10.00 - 11.00	Keynote 1: <i>Mark Plumbley</i> , Audio Event Detection and Scene Recognition	IIS Lecture Room
11.00 - 11.30	Coffee Break	IIS Foyer
11.30 - 12.30	Oral Session: Audio Source Separation <i>Diego Di Carlo, Ken Déguernel and Antoine Liutkus</i> , Gaussian Framework for Interference Reduction in live Recordings <i>Delia Fano Yela, Sebastian Ewert, Derry Fitzgerald and Mark Sandler</i> , On the Importance of Temporal Context in Proximity Kernels: A Vocal Separation Case Study	IIS Lecture Room
12.30 - 13.30	Lunch	IIS Cantina

13.30 - 15.30	Oral Session: Audio Descriptors / Features <i>Athanasios Lykartsis, Stefan Weinzierl and Volker Dellwo</i> , Speaker Identification for Swiss German with Spectral and Rhythm Features <i>Andy Pearce, Tim Brookes and Russell Mason</i> , Timbral Attributes for Sound Effect Library Searching <i>Patricio López-Serrano, Christian Dittmar and Meinard Müller</i> , Mid-Level Audio Features Based on Cascaded Harmonic-Residual-Percussive Separation	IIS Lecture Room
15.30 - 17.00	Coffee and Posters <i>Gerhard Hagerer, Vedhas Pandit, Florian Eyben and Björn Schuller</i> , Enhancing LSTM RNN-based Speech Overlap Detection by Artificially Mixed Data <i>Gökhan Sevkin, Alexandra Craciun and Tom Bäckström</i> , An Unsupervised Hybrid Approach for Online Detection of Sound Scene Changes in Broadcast Content <i>Adán L. Benito and Joshua D. Reiss</i> , Intelligent Multitrack Reverberation Based on Hinge-Loss Markov Random Fields <i>Zdenek Prusa</i> , The Phase Retrieval Toolbox <i>Joren Six and Marc Leman</i> , A Framework to provide fine-grained time-dependent Context for active listening Experiences <i>Jong Wook Kim, Spencer Russell and Juan Bello</i> , Fast Music and Audio Processing Using the Julia Language <i>Nicholas Jillings and Ryan Stables</i> , A Semantically Powered Digital Audio Workstation in the Browser	Room Watt
15.30 - 17.00	Demo Session	Demo Room
15.30 - 17.00	Audio & Media Technologies Demo Frame	Room Viterbi
19.00 - 21.00	Reception Dinner with Live Music	IIS Foyer

Friday, June 23rd

9.00 - 12.00	Registration	IIS Foyer
9.30 - 11.00	Oral Session: Pitch Tracking <i>Rachel M. Bittner, Justin Salamon, Juan J. Bosch and Juan P. Bello</i> , Pitch Contours as a Mid-Level Representation for Music Informatics	IIS Lecture Room

	<i>Rodrigo Schramm and Emmanouil Benetos</i> , Automatic Transcription of A Cappella Recordings from Multiple Singers <i>Amruta Vidwans, Siddharth Gururani, Chih-Wei Wu, Vinod Subramanian, Rupak Vignesh Swaminathan and Alexander Lerch</i> , Objective Descriptors for the Assessment of Student Music Performances	
11.00 - 11.30	Coffee Break	IIS Foyer
11.30 - 12.30	Keynote 2: <i>Udo Zölzer</i> , Pitch-based Audio Algorithms	IIS Lecture Room
12.30 - 13.30	Lunch	IIS Cantina
13.30 - 15.00	Oral Session: Automatic Music Transcription <i>Dasaem Jeong and Juhun Nam</i> , Note Intensity Estimation of Piano Recordings by Score-informed NMF <i>Emmanouil Benetos</i> , Polyphonic Note and Instrument Tracking using linear dynamical Systems	IIS Lecture Room
15.00 - 17.00	Coffee and Posters <i>Florian Scholz, Igor Vatolkin and Guenter Rudolph</i> , Singing Voice Detection across different Music Genres <i>Frank Zalkow, Christof Weiss, Thomas Praetlich, Vloria Arifi-Mueller and Meinard Müller</i> , A Multi-Version Approach for Transferring Measure Annotations Between Music Recordings <i>Kumar Ashis Pati and Alexander Lerch</i> , A Dataset and Method for Guitar Solo Detection in Rock Music <i>Jose J. Valero-Mas, Emmanouil Benetos and Jose M. Ñesta</i> , Assessing the Relevance of Onset Information for Note Tracking in Piano Music Transcription <i>Filip Korzeniowski and Gerhard Widmer</i> , On the Futility of Learning Complex Frame-Level Language Models for Chord Recognition <i>Meinard Müller, Sebastian Rosenzweig, Jonathan Driedger and Frank Scherbaum</i> , Interactive Fundamental Frequency Estimation with Applications to Ethnomusicological Research	Room Watt
15.00 - 17.00	Demo Session	Demo Room
19.00 - 23.00	Conference Banquet	Entla's Keller