



Session : Topics in Audio Processing

Time: 08:30 – 10:30



MAXMBROLA : A MAX/MSP MBROLA-BASED TOOL FOR REAL-TIME VOICE SYNTHESIS ([Abstract](#))

Nicolas D'Alessandro (Faculté Polytechnique de Mons, Belgium)
Raphael Sebbe (Faculté Polytechnique de Mons, Belgium)
Baris Bozkurt (Faculté Polytechnique de Mons, Belgium)
Thierry Dutoit (Faculté Polytechnique de Mons, Belgium)



A CENTRALIZED ACOUSTIC ECHO CANCELLER BASED ON PERCEPTUAL PROPERTIES ([Abstract](#))

Hela Gnaba-Daassi (Université René Descartes – Paris V, France)
Pascal Scalart (ENSSAT – LASTI, France)
Claude Marro (France Télécom, France)



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DRUM TRANSCRIPTION WITH NON-NEGATIVE SPECTROGRAM FACTORISATION ([Abstract](#))

Jouni Paulus (Tampere University of Technology, Finland)

Tuomas Virtanen (Tampere University of Technology, Finland)



MODELING MUSICAL SOUNDS WITH AN INTERPOLATING STATE MODEL ([Abstract](#))

Anssi Klapuri (Tampere University of Technology, Finland)

Tuomas Virtanen (Tampere University of Technology, Finland)

Marko Helén (Tampere University of Technology, Finland)



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PEAK TRACKING AND PARTIAL FORMATION OF MUSIC SIGNALS ([Abstract](#))

Hamid Satar–Boroujeni (Northeastern University, United States)

Bahram Shafai (Northeastern University, United States)



DETECTION OF EMPTY HAZELNUTS FROM FULLY DEVELOPED NUTS BY IMPACT ACOUSTICS ([Abstract](#))

A. Enis Cetin (Bilkent University, Turkey)

Ibrahim Onaran (Bilkent University, Turkey)

Tom Pearson (Grain Marketing And Production Research Center, United States)

Yasemin Yardimci (Middle East Technical University, Turkey)

Berkan Dulek (Bilkent University, Turkey)

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AN EFFICIENT FAST STEREO ECHO CANCELER BY PAIRWISE OPTIMAL WEIGHT REALIZATION TECHNIQUE ([Abstract](#))

Masahiro Yukawa (Tokyo Institute of Technology, Japan)

Noriaki Murakoshi (Tokyo Institute of Technology, Japan)

Isao Yamada (Tokyo Institute of Technology, Japan)



IMPROVING ROBUSTNESS OF BLIND ADAPTIVE MULTICHANNEL IDENTIFICATION ALGORITHMS USING CONSTRAINTS ([Abstract](#))

Md. Kamrul Hasan (Imperial College London, United Kingdom)

Jacob Benesty (INRS-EMT, University of Quebec, Canada)

Patrick A. Naylor (Imperial College London, United Kingdom)

Darren B. Ward (Imperial College London, United Kingdom)

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LOW-POWER IMPLEMENTATION OF A SUBBAND FAST AFFINE PROJECTION ALGORITHM FOR ACOUSTIC ECHO CANCELLATION ([Abstract](#))

David Hermann (AMI Semiconductor, Canada)

Etienne Cornu (AMI Semiconductor, Canada)

Tina Soltani (AMI Semiconductor, Canada)

Hamid Sheikhzadeh (AMI Semiconductor, Canada)

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USING A SINES + WAVELETS MIXED DICTIONARY FOR IMPROVING MATCHING PURSUIT-BASED PARAMETRIC AUDIO CODING (Abstract)

Pedro Vera Candéas (University of Jaen, Spain)
Nicolas Ruiz Reyes (University of Jaen, Spain)
Manuel Rosa-Zurera (University of Alcalá, Spain)
Juan Carlos Cuevas
Martínez (University of Jaen, Spain)
Jose Miguel Garcia
Rubia (Motorola, Spain)

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ACOUSTIC FEEDBACK CANCELLATION FOR LONG ACOUSTIC PATHS USING A NONSTATIONARY SOURCE MODEL ([Abstract](#))

Geert Rombouts (KULeuven/ESAT–SCD, Belgium)
Toon Van Waterschoot (KULeuven/ESAT–SCD, Belgium)
Kris Struyve (Televic NV, Belgium)
Marc Moonen (KULeuven/ESAT–SCD, Belgium)



A SIMPLE ADAPTIVE MATRIXING SCHEME FOR EFFICIENT CODING OF STEREO SOUND ([Abstract](#))

Maciej Bartkowiak (Poznan University of Technology, Poland)
Tomasz Zernicki (Poznan University of Technology, Poland)

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NEW INSIGHTS INTO THE STATISTICAL SIGNAL MODEL AND THE PERFORMANCE BOUNDS OF ACOUSTIC ECHO CONTROL ([Abstract](#))

Gerald Enzner (Aachen University (RWTH), Germany)

Peter Vary (Aachen University (RWTH), Germany)



OPTIMIZATION OF CROSSOVER FREQUENCY AND CROSSOVER REGION RESPONSE FOR MULTICHANNEL ACOUSTIC APPLICATIONS ([Abstract](#))

Sunil Bharitkar (Audyssey Laboratories, Inc., United States)

Chris Kyriakakis (Audyssey Laboratories, Inc., United States)

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DOUBLE-TALK ROBUST ACOUSTIC ECHO CANCELLATION WITH CONTINUOUS NEAR-END ACTIVITY (Abstract)

Toon Van Waterschoot (ESAT-SCD, Katholieke Universiteit Leuven, Belgium)

Marc Moonen (ESAT-SCD, Katholieke Universiteit Leuven, Belgium)



A TALKER TRACKING METHOD USING TWO MICROPHONES BASED ON THE SOUND SOURCE LOCALIZATION (Abstract)

Kenji Suyama (Tokyo DENKI University, Japan)

Kota Takahashi (The University of Electro-Communication, Japan)

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MULTIPLE-DESCRIPTION CODING OF LOGARITHMIC PCM ([Abstract](#))

Kai Clüver (Technical University of Berlin, Germany)

Thomas Sikora (Technical University of Berlin, Germany)



COMPARATIVE STUDY OF TWO INFORMED EMBEDDING STRATEGIES FOR AUDIO SPREAD-SPECTRUM DATA HIDING SYSTEMS ([Abstract](#))

Cléo Baras (GET – ENST, TSI Department, France)

Nicolas Moreau (GET – ENST, TSI Department, France)

Przemysław Dymarski (Technical University of Warsaw, Poland)



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ROBUST AUDIO WATERMARK DECODING BY NONLINEAR CLASSIFICATION ([Abstract](#))

Serap Kirbiz (Istanbul Technical University, Turkey)

Yusuf Yaslan (Istanbul Technical University, Turkey)

Bilge Gonsel (Istanbul Technical University, Turkey)



SPEECH STEGANALYSIS USING CHAOTIC-TYPE FEATURES ([Abstract](#))

Osman Hilmi Kocal (Uludag University, Turkey)

Emrah Yuruklu (Uludag University, Turkey)

Ismail Avcibas (Uludag University, Turkey)

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A NEW STABLE ADAPTIVE IIR FILTER FOR ACTIVE NOISE CONTROL SYSTEMS ([Abstract](#))

Allahyar Montazeri (Iran University of Science and Technology, Iran)

Mohammad Hossein Kahaei (Iran University of Science and Technology, Iran)

Javad Poshtan (Iran University of Science and Technology, Iran)



ENVIRONMENT SIMULATOR FOR AUDIO SIGNALS ([Abstract](#))

Antonio Satue-Villar (Escola Universit ria Polit cnica de Matar , Spain)

Juan A. Fern ndez Rubio (Universitat Polit cnica de Catalunya, Spain)