

Social events

Wednesday ^{25th}

17:00 – 19:00 Welcome Drink

Thursday ^{26th}

18:20 – open end Concert Le Spin Ovale
<http://www.lespinovale.de>

Friday ^{27th}

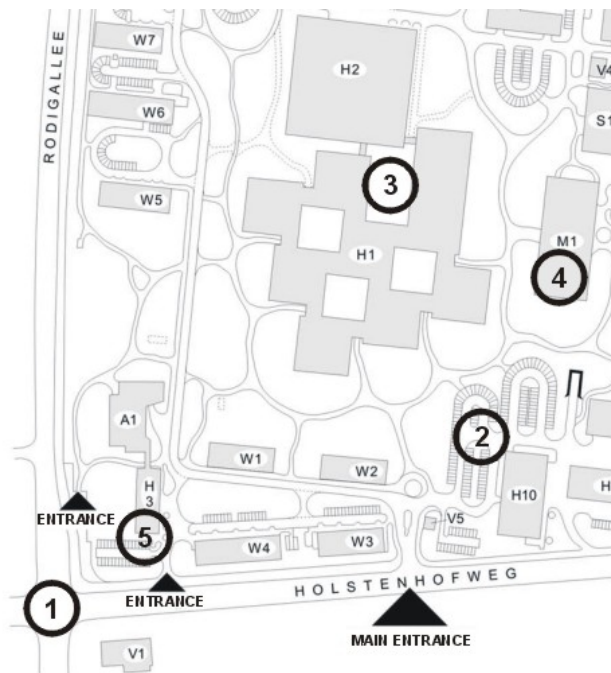
19:00 – open end Harbour trip & buffet

Important contact numbers

Hospital Wandsbek	0 40 - 65 76-0	tel
Taxi	0 40 – 44 10 11 0 40 – 66 66 66 0 40 – 21 12 11	tel tel tel
HVV travel agency	0 40 – 1 94 49	tel
Airport	0 40 – 50 75 – 0 0 40 – 50 75 – 12 34	tel fax
Conference Secretariat	0 40 – 65 41 23 31 0 40 – 65 41 28 22	tel fax
Department of Signal Processing and Communications	0 40 – 65 41 23 29	tel
Ahlvers	+49-173-9 91 45 96	tel
Keiler	+49-179-6 76 29 49	tel

Map of venue

Campus of the University of the Federal Armed Forces



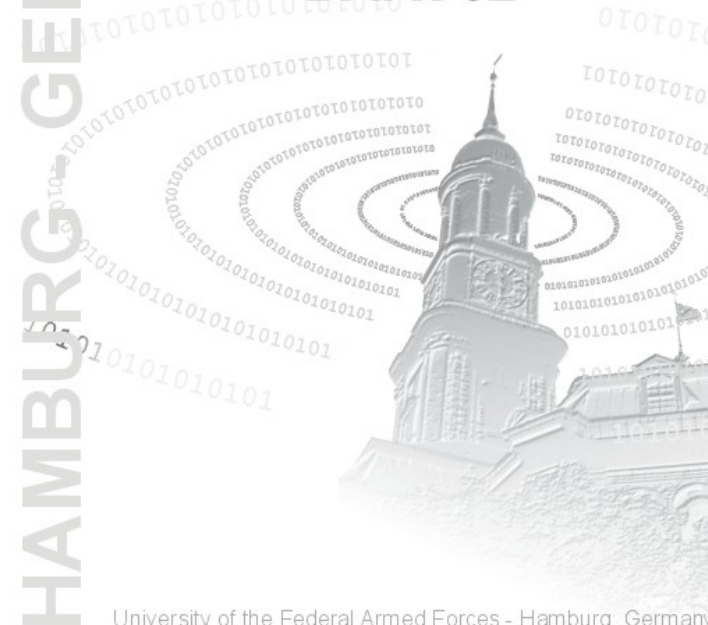
- 1** BUS STOP
- 2** PARKING AREA
- 3** MAIN UNIVERSITY BUILDING
- 4** CONFERENCE LOCATION AND CAFETERIA
- 5** DEPT. OF SIGNAL PROCESSING (H3)

Buses no. 10, 163 & 261 (area 1 on map) between University and the bus station „Wandsbek Markt“ every 5 minutes. Then subway „U1“ to city centre. Direct connection to city center: take bus no. 35 from the University (area 1 on map) to the central station and city centre.

HAMBURG GERMANY

5th International Conference on

Digital Audio Effects DAFx-02



University of the Federal Armed Forces - Hamburg, Germany

September 26 - 28, 2002

Conference Programme

Thursday 26th



- 8:00 Registration**
- 9:00 Opening – President of the University**
Session 1: Effects
- 9:20 Daniel Arfib “Gestural Strategies for Specific Filtering Processes”
- 9:40 David Darlington “Digital Audio Effects in the Wavelet Domain”
- 10:00 Julius Smith “Doppler Simulation and the Leslie”
- 10:20 Vincent Verfaillie “Implementation Strategies for Adaptive Digital Audio Effects”
- 10:40 Coffee Break**
Session 2: Sound Analysis
- 11:00 Christian Spevak “Soundspotter – A Prototype System for Content-based Audio Retrieval”
- 11:20 Christopher Duxbury “A Hybrid Approach to Musical Note Onset Detection”
- 11:40 Giuliano Monti “Automatic Polyphonic Piano Note Extraction Using Fuzzy Logic in a Blackboard System”
- 12:00 Luis I. Ortiz-Berenguer “Polyphonic Transcription Using Piano Modeling for Spectral Pattern Recognition”
- 12:20 Lunch Break**
Session 3: Sound Analysis
- 13:40 Florian Keiler “Survey on Extraction of Sinusoids in Stationary Sounds”
- 14:00 Mathieu Lagrange “Sinusoidal Parameter Extraction and Component Selection in a non Stationary Model”
- 14:20 Derry FitzGerald “Sub-Band Independent Subspace Analysis for Drum Transcription”
- 14:40 Harald Viste “An Extension for Source Separation Techniques Avoiding Beats”
- 15:00 Poster Session 1**
- 15:40 Coffee Break**
Session 4: Sound Modeling/Synthesis
- 16:00 Ismo Kauppinen “Audio Signal Extrapolation – Theory and Applications”
- 16:20 Federico Avanzini “Modeling Interactions between Rubbed Dry Surfaces Using an Elasto-Plastic Friction Model”
- 16:40 Stefania Serafin “Modeling Bowl Resonators Using Circular Waveguide Networks”
- 17:00 Matthew Burtner “Real-Time Spatial Processing and Transformations of a Singing Bowl”
- 17:20 Info DAFx-03 London

Friday 27th



- Session 5: Spectral Modeling/Processing/Synthesis
- 9:00 Invited Speaker: Prof. Philippe Depalle “Spectral Representation and Spectral Modelling for Sound Synthesis and Processing”**
- 9:30 Pietro Polotti “Inharmonic Sound Spectral Modeling by Means of Fractal Additive Synthesis”
- 9:50 David Topper “Spatio-Operational Spectral (S.O.S.) Synthesis”
- 10:10 Roland Badeau “EDS Parametric Modeling and Tracking of Audio Signals”
- 10:30 Coffee Break**
Session 6: Synthesis
- 11:00 Rémy Boyer “Iterative Method for Harmonic and Exponentially Damped Sinusoidal Models”
- 11:20 Pierre Hanna “Real-Time Noise Synthesis with Control of the Spectral Density”
- 11:40 Wim D’haes “Physical Constraints for the Control of a Physical Model of a Trumpet”
- 12:00 Damian Murphy “Digital Waveguide Mesh Modelling of Room Acoustics: Improved Anechoic Boundaries”
- 12:20 Lunch Break**
- 13:50 Invited Speaker: Albrecht Schneider, Rolf Bader “Musical Instrument Acoustics and Psychoacoustics: Interdependencies between Vibrational Behaviour of Instruments and Perceptual Issues”**
Session 7: Instrument Modeling
- 14:20 Nicolas Castagne “Creating Music by Means of “Physical Thinking”: The Musician Oriented Genesis Environment”
- 14:40 Balázs Bank “On the Nonlinear Commuted Synthesis of the Piano”
- 15:00 Matti Karjalainen “Efficient Modeling and Synthesis of Bell-like Sounds”
- 15:20 Poster Session 2**
- 15:50 Coffee Break**
Session 8: Software
- 16:10 Victor Lazzarini “Audio Signal Processing and Object-oriented Systems”
- 16:30 Joseph Timoney “New SndObj Library Classes for Sinusoidal Modelling”
- 16:50 Enrique Robledo Arruncio “A C++ Development Platform for Real Time Audio Processing and Synthesis Applications”
- 17:10 Christian Müller-Tomfelde “Sound Effects for a Silent Computer System”

Saturday 28th



- Session 9: Audio Coding
- 9:00 Invited Speaker: Prof. Karlheinz Brandenburg “Audio Coding: Basic techniques and new developments”**
- 9:30 C.M. Liu “A New Criterion and Associated Bit Allocation Method for Current Audio Coding Standards”
- 9:50 Nikolaus Meine “Fast Sinusoid Synthesis for MPEG-4 HILN Parametric Audio Decoding”
- 10:10 Mohammed Raad “From Lossy to Lossless Audio Coding Using SPIHT”
- 10:30 Coffee Break**
Session 10: Psychoacoustics
- 11:00 Invited Speaker: Prof. Jens Blauert “Human Sound Localization: Some Fundamentals”**
- 11:30 Esben Skovenborg “Measuring Sensory Consonance by Auditory Modelling”
- 11:50 George Tzanetakis “Human Perception and Computer Extraction of Musical Beat Strength”
- 12:10 Pierre Dutilleux “Live-Electronics Algorithms in the Multimedia Work “Swim Swan” ”