

MAVEBA 2023 – WORKSHOP PROGRAMME

TUESDAY, SEPTEMBER 12, 2023

09:00 – 09:30	Welcome greetings
09:30 – 10:30	SESSION I – BIOMECHANICS AND MODELS <i>Chairpersons: P.Aichinger, A.Georgaki</i> 09:30-09:50 ELECTROMYOGRAPHIC ANALYSIS OF LIP AND FACE MUSCLES IN BEATBOXING N. Henrich Bernardoni, J. Frère, A. Paroni, S. Gerber, H. Løevenbruck 09:50-10:10 ON THE USE OF BIOMECHANICAL MODELS FOR VOCAL FOLD EDGE TRACKING IN VIDEOKYMOGRAMS C. Drioli, G. L. Foresti 10:10-10:30 AN ACOUSTIC ANALYSIS OF VOWELS TO PREDICT VOICE CHANGES IN A LONG READING TASK M. Hagmuller, J. Linke, S. Lohrmann, F. Pokorny, B. Schuppler
10:30 – 11:00	Coffee break
11:00 – 12:30	ROUND TABLE I: ACOUSTIC AND PHYSIOLOGICAL ASPECTS OF SINGING S. Capobianco, N. Henrich Bernardoni, M. Kob (<i>Moderator: J. Sundberg</i>)
12:30 – 14:00	Light lunch
14:00 – 15:00	SESSION II – VOCAL FOLDS AND VOCAL TRACT <i>Chairpersons: G.Cantarella, A.Nacci</i> 14:00 – 14:20 FORMANT ANALYSIS OF VOICE AS AN EARLY BIOMARKER OF NEURODEGENERATION A.Nacci, S. Capobianco, F. Simoni, L. Bruschini, S. Berrettini, L. Bastiani 14:20 -14:40 VOCAL FOLD IMPACT STRESS: THE KEY CONCEPT OF PHONOTRAUMA P. H. DeJonckere, J. Lebacqz 14:40 -15:00 FORMANT TRAJECTORIES IN DIFFERENT LANGUAGES V. V. Evdokimova, M. R. Maximova
15:00 – 16:00	LECTURE: THE « VIRTUAL MUSEUM OF PHONiatrics » A GUIDED TOUR BY THE CURATOR-IN-CHIEF P. H. DEJONCKERE <i>P. H. DeJonckere</i>
16:00 – 16:30	Coffee break
16:30 – 17:50	STUDENT COMPETITION I <i>Chairpersons: G.Baracca, M.Hagmueller</i> 16:30 – 16:50 CUMULATIVE PAIR-WISE VOWEL DISTANCE (CPVD): NEW VOWEL SPACE METRICS FOR PEOPLE WITH ATYPICAL SPEECH T. Cao, A. Favaro, T. Thebaud, J. Villalba, P. Zelasko, E. S. Oh, A. Butala, N. Dehak, L. Moro-Velazquez 16:50 – 17:10 EXAMINING THE DIRECTIVITY CHARACTERISTICS OF GREEK SUNG VOWELS ON FORMANT FREQUENCIES G. Dedousis, K. Bakogiannis, A. Andreopoulou, A. Georgaki 17:10 – 17:30 AI TECHNIQUES APPLIED TO ACOUSTICAL FEATURES OF PARALYTIC DYSPHONIA VERSUS DYSPHONIA DUE BENIGN VOCAL FOLD MASSES F. Calà, L. Frassinetti, G. Cantarella, L. Battilocchi, G. Buccichini, A. Lanatà, C. Manfredi 17:30 – 17:50 PERFORMANCE EVALUATION OF 3D NEURAL NETWORKS APPLIED TO HIGH-SPEED VIDEOS FOR GLOTTIS SEGMENTATION IN DIFFICULT CASES A. A. Dadras, P. Aichinger
18:30 – 19:30	Guided tour of the Botanical Garden “Giardino dei Semplici”. For participants and accompanying persons
19:30 – 20:00	Musical entertainment given by an accordion duo. For participants and accompanying persons. Programme in the MAVEBA website.
20:00 – 23:00	Dinner inside the Garden , under its centuries-old trees. For participants and accompanying persons.

WEDNESDAY, SEPTEMBER 13, 2023

09:00 -10:00	SESSION III – SINGING, DRAMA AND VOICE QUALITY <i>Chairpersons: J.Sundberg, C.Drioli</i>
09:00 – 09:20	THE ROLE OF PHONOTACTICS IN THE DRAMA THEATRE ACADEMIES: CLINICAL OBSERVATIONS G. Baracca, S. Capobianco, L. Bastiani, A.Nacci
09:20 – 09:40	STUDIO REPORT: RESEARCH ON THE ACOUSTICS AND CREATIVE TECHNOLOGIES OF THE SINGING VOICE IN LABMAT (LABORATORY OF MUSIC ACOUSTICS AND TECHNOLOGY, DEPARTMENT OF MUSIC STUDIES, NKUA) A. Georgaki, A. Andreopoulou
09:40 – 10:00	ON THE TRANSMISSIBILITY OF SPECTRAL DECAY RATE VOICE QUALITY PARAMETERS TO CONSONANT VOICING W. Wokurek, M. Pützer
10:00 – 11:00	STUDENT COMPETITION II <i>Chairpersons: M.Kob, V.V.Evdokimova</i>
10:00 – 10:20	HERMESPEECH RECORDER: A NEW OPEN-SOURCE WEB PLATFORM TO RECORD SPEECH TO THE CLOUD J. Park, M. Zinkus, J. Huang, A. Butala, J. Zhang, L. Clawson, S. Cust, V. Chovaz, N. Dehak, H. Wang, L. MoroVelazquez
10:20 – 10:40	OPERATIC SINGING MULTI-SENSOR RECORDING PROTOTYPE: A PILOT EVALUATION STUDY E. Angelakis, K. Bakogiannis, A. Andreopoulou, M. Habela, A. Georgaki
10:40 – 11:00	ELECTRODERMAL ACTIVITY AND ACOUSTICAL ANALYSIS IN A WORDS/NON-WORDS READING TASK F. Calà, L. Frassinetti, P. Tarchi, V. Guarguagli, C. Manfredi, A. Lanatà
11:00 – 11:30	Coffee break
11:30 – 13:00	ROUND TABLE II: FOCUSING ON VOICE ONSET: A CRITICAL MOMENT OF PHONATION. FROM BASIC SCIENCE TO THERAPY J. Sundberg, G. Cantarella, M. Kob, P. Aichinger (<i>Moderator: P. H. DeJonckere</i>)
13:00 – 14:20	Light lunch
14:20 – 15:40	SESSION IV – TOOLS AND METHODS FOR SPEECH AND VOICE ANALYSIS <i>Chairpersons: N.Henrich Bernardoni, W.Wokurek</i>
14:20 – 14:40	INFANT CRY FOR PATHOLOGIES CLASSIFICATION USING A DEEP LEARNING APPROACH C. A. Reyes-Garcia, I. A. Valencia-Hernandez, O. F Reyes-Galaviz
14:40 – 15:00	THE IMPACT OF DIFFERENT TYPES OF TEACHING MODES ON VOCAL FATIGUE IN UNIVERSITY TEACHER K.V. Evgrafova, N. S. Sokolova, N. V. Shvalev
15:00 – 15:20	DE-NOISING OF ELECTROGLOTTOGRAPHY SIGNALS USING SPECTRAL THRESHOLDING S. Ternström
15:20 – 15:40	DOMAIN ADVERSARIAL CONVOLUTIONAL NEURAL NETWORK FOR PARKINSON'S DISEASE DETECTION FROM SPEECH E. J. Ibarra-Sulbaran, J. D. Arias-Londoño, M. Zañartu, J. I. Godino-Llorente
15:40 – 16:10	Coffee break
16:10 – 17:00	LABORATORY: A MULTIMODAL SYSTEM FOR THE CHARACTERIZATION OF PHYSIOLOGICAL DYNAMICS DURING SIFEL PROTOCOL AND WORDS/NON-WORDS READING TASKS L. Frassinetti, F. Calà, P. Tarchi, V. Guarguagli, C. Manfredi, A. Lanatà
17:00 – 17:30	Proclamation of the winner of the student competition and goodbye
19:00 – 20:30	Farewell aperitif – Viale Antonio Gramsci 56, Firenze (c/o Claudia Manfredi). For participants and accompanying persons. Map in the MAVEBA website