



Final Programme

August 25th, 2011

8.30-9.20 Registration of participants

Invited Speaker: Prof. Sergio Daniel Cano Ortiz, Universidad de Oriente, Faculty of Electrical Engineering, Santiago de Cuba (C)

Infant cry

9.20-9.30	Introduction	S Cano Ortiz
9.30-9.50	CRY-BASED NEWBORN DIAGNOSIS OF CNS DISEASES AND SPEECH DEVELOPMENTAL ASPECTS: SOFTWARE AND HARDWARE TOOLS, CRY DATABASES, METHODOLOGIES	S Cano Ortiz
9.50-10.10	STUDY OF CRY PATTERNS IN INFANTS AT HIGH RISK FOR AUTISM	S Orlandi

Session I: Obstructive sleep apnea

	Chairperson	F Amato
10.10-10.30	DETECTION OF OBSTRUCTIVE SLEEP APNEA USING SPEECH SIGNAL ANALYSIS	O Elisha
10.30-10.50	AUTOMATIC DETECTION OF SNORING EVENTS USING GAUSSIAN MIXTURE MODELS	E Dafna
10.50-11.10	AN AUTOMATIC AND EFFICIENT METHOD OF SNORE EVENTS DETECTION FROM SLEEP AUDIO RECORDINGS	F Gritti

11.10-11.40 **Coffee break**

Session II: Imaging

	Chairperson	ML Scattoni
11.40-12.00	ELECTRICAL IMPEDANCE TOMOGRAPHY IMAGING OF LARYNX	A Seppanen
12.00-12.20	PVG-WAVEGRAMS:THREE-DIMENSIONAL VISUALIZATION OF VOCAL FOLD DYNAMICS	J Unger
12.20-12.40	FULL-AUTOMATIC GLOTTIS SEGMENTATION WITH ACTIVE SHAPE MODELS	JJ Cerrolaza
12.40-13.00	ESTIMATION OF GLOTTAL FUNCTIONS USING STEREOENDOSCOPIC HIGH-SPEED DIGITAL IMAGING	KI Sakakibara

13.00 -14.00 **Lunch**

Special Session: S. Thomson, Department of Mechanical Engineering, Brigham Young University, Provo, Utah (USA) - C. Brücker, Institute of Mechanics and Fluid Dynamics (IMFD), TU Bergakademie Freiberg, Freiberg (D)

Computational and experimental vocal fold modeling

14.00-14.10	Introduction	S Thomson C Brucker S Weiss
14.10-14.30	MEASUREMENT OF THE ELASTICITY MODULUS OF ARTIFICIAL AND REAL VOCAL FOLDS USING PIPETTE ASPIRATION	S Weiss
14.30-14.50	PARAMETER OPTIMIZATION FOR A TIME-DEPENDENT MULTIMASS MODEL FOR THE PHARYNGO-ESOPHAGEAL SEGMENT	B Huttner
14.50-15.10	SPECTRAL ANALYSIS OF THE FLOW IN A GLOTTAL MODEL	C Brucker
15.10-15.30	SELF-OSCILLATING, MULTI-LAYER NUMERICAL AND ARTIFICIAL VOCAL FOLD MODELS WITH THIN EPITHELIAL AND LOOSE COVER LAYERS	S Thomson
15.30-16.00	Coffee break	

Session III: Signal analysis

	Chairperson	Y Zigel
16.00-16.20	AUTOMATED TOOLS FOR IDENTIFYING SYLLABIC LANDMARK CLUSTERS THAT REFLECT CHANGES IN ARTICULATION	S Boyce
16.20-16.40	SPECTRAL ANALYSIS OF PATHOLOGICAL VOICES: SUSTAINED VOWELS VS RUNNING SPEECH	R Fraile
16.40-17.00	SENTENCE MODALITY RECOGNITION IN DYSARTHIC SPEECH	T Dekens
17.00-17.20	USING ACOUSTIC MEASURES TO PREDICT AUTOMATIC SPEECH RECOGNITION PERFORMANCE FOR DYSARTHIC SPEAKERS	F Rudzicz
17.20-17.40	VOICE QUALITY ANALYSIS TO DETECT NEUROLOGICAL DISEASES	P Gómez Vilda
18.00-19.00	Visit to the Cathedral terrace	
19.00-20.00	Welcome cocktail in the OPA courtyard	

August 26th, 2011

Invited Speaker: Franco Fussi, Centro Foniatico USL Ravenna, Teatro Comunale di Bologna, Ravenna (I)

Singing voice

9.30-9.40	Introduction	F Fussi
9.40-10.00	THE VOCAL SCORE PROFILE/VOICE RANGE PROFILE (P/P RATIO) IN ARTISTIC VOICE EVALUATION: APPLICATION TESTED ON OPERA AND MUSIC SINGERS	F Fussi
10.00-10.20	VOCAL DOSIMETRY (APM) IN OPERA AND MUSICAL SOLOIST SINGERS DURING LIVE PERFORMANCES IN THEATRES: A PILOT STUDY	NP Paolillo
10.20-10.40	INFLUENCE OF HORMONE REPLACEMENT THERAPY ON THE SINGING VOICE TESSITURA OF MENOPAUSAL WOMEN	N Sáenz-Lechón
10.40-11.00	HOW CAN POSTURO-ACOUSTIC SYSTEM HELP THE SINGER IN VOICE QUALITY RESEARCH?	J Quoidbach
11.00-11.30	Coffee break	

Session IV: Signal analysis

	Chairperson	F Grenez T Meyer
11.30-11.50	IMPACT OF RIGID ENDOSCOPIC LARYNGOSCOPY ON ELECTROGLOTTOGRAPHIC AND ACOUSTIC PARAMETERS	
11.50-12.10	AUTOMATIC GRBAS ASSESSMENT USING COMPLEXITY MEASURES AND A MULTICLASS GMM-BASED DETECTOR	JD Arias Londoño
12.10-12.30	ESTIMATION OF HARMONIC AND NOISE COMPONENTS OF THE GLOTTAL EXCITATION	R Sousa
12.30-12.50	MULTISCALE PRODUCT CORRELATION FOR THE OPEN QUOTIENT ESTIMATION FROM THE NOISY SPEECH SIGNAL	W Saidi
12.50-13.50	Lunch	

Special Session: P. Dejonckere, Experimental ORL Cath. Univ. Leuven (B), Fed. Inst. Occup. Diseases Brussels (B), ORL-Phoniatics Utrecht Univ. (NL)

Innovative ways for acoustic analysis of non-quasi-periodic voices

13.50-14.00	Introduction	P Dejonckere C Mertens
14.00-14.20	ANALYSIS OF GLOTTAL CYCLE TREMOR AND JITTER BY EMPIRICAL MODE DECOMPOSITION	
14.20-14.40	CEPSTRAL ANALYSIS OF PERCEPTUALLY RATED SYNTHETIC DISORDERED SPEECH STIMULI	A Alpan
14.40-15.00	SYNTHESIS OF BREATHY AND ROUGH VOICES WITH A VIEW TO VALIDATING PERCEPTUAL AND AUTOMATIC GLOTTAL CYCLE PATTERN RECOGNITION	F Grenez
15.00-15.20	TREMOR IN SPEAKERS WITH SPASMODIC DYSPHONIA	M Kutsogiannaki
15.20-15.40	ASSESSMENT OF VOCAL DYSPERIODICITIES IN DISORDERED SPEECH BASED ON EMPIRICAL MODE DECOMPOSITION	A Kacha
15.40-16.00	ACOUSTIC ASSESSMENT OF SPASMODIC DYSPHONIA USING A NEW MULTIPURPOSE VOICE ANALYSIS TOOL	A Giordano
16.00-16.30	Coffee break	

Session V: Professional voice

Chairperson

16.30-16.50	ACOUSTIC ANALYSIS OF VOCAL FATIGUE IN PROFESSIONAL VOICE USERS	L Bocchi K Evgrafova
16.50-17.10	REAL-TIME EMBEDDED TRACKING OF PATIENT REPORTED VOCAL DISCOMFORT IN PROFESSIONAL SETTINGS	I Verduyckt
17.10-17.30	DETERMINANTS OF VOICE-RELATED SYMPTOMS AND COMPLAINTS IN DIFFERENT CATEGORIES OF TEACHERS : THE IMPORTANCE OF THE PSYCHO-EMOTIONAL COMPONENT	P Dejonckere
19.00-20.00	<i>Visit to S. Marco museum</i>	
20.00-23.00	<i>Gala dinner at the S.Antonino cloister - S.Marco convent</i>	

August 27th, 2011

Special Session: S. Sapir, Department of Communication Sciences and Disorders,
University of Haifa, Haifa (IL)

Acoustic analysis of Parkinsonian speech: issues methods and applications

9.30 - 9.40	Introduction	S Sapir
9.40-10.00	ROBUST PARSIMONIOUS SELECTION OF DYSPHONIA MEASURES FOR TELEMONITORING OF PARKINSON'S DISEASE SYMPTOM SEVERITY	A Tsanas
10.00-10.20	ACOUSTIC METRICS OF VOWEL ARTICULATION IN PARKINSON'S DISEASE: VOWEL SPACE AREA (VSA) Vs. VOWEL ARTICULATION INDEX (VAI)	S Sapir
10.20-10.40	ACOUSTIC ANALYSIS OF SPEECH AS A PROMISING INSTRUMENT FOR MONITORING AND DIFFERENTIAL DIAGNOSIS OF PARKINSON'S DISEASE	S Skodda
10.40-11.00	ACOUSTIC ANALYSIS OF VOICE AND SPEECH CHARACTERISTICS IN EARLY UNTREATED PARKINSON'S DISEASE	J Ruzs

11.00-11.30 *Coffee break*

Session VI: Devices

	Chairperson	P Gómez Vilda B Calabrese
11.30-11.50	EXPERIENCES OF USING A DSP BASED DEVICE FOR VOCAL SIGNAL ANALYSIS	
11.50-12.10	ACCELERATION SENSOR MEASUREMENTS OF VIBRATIONS OF THE LARYNX IN PATIENTS WITH VOCAL FOLD ADDUCTION DEFICIENCIES	W Wokurek
12.10-12.30	VOICE MONITORING: TECHNICAL AND CLINICAL ASPECTS	C Manfredi
12.30-12.40	Arrivederci to 8th MAVEBA, 2013	