



Università degli Studi di Firenze



Department of Electronics and Telecommunications

**7th International Workshop
on
Models and Analysis of Vocal Emissions for Biomedical
Applications**

MAVEBA 2011

August 25-27, 2011

**Palazzo dei Congressi – Villa Vittoria
Piazza Adua 1, Firenze, Italy**



<http://maveba.det.unifi.it>

Speech is the primary means of communication among humans, and results from complex interaction among vocal folds vibration at the larynx and voluntary articulators movements (i.e. mouth tongue, jaw, etc.). However, only recently has research focussed on biomedical applications. Since 1999, the **MAVEBA Workshop** is organised every two years, aiming to stimulate contacts between specialists active in clinical, research and industrial developments in the area of **voice signal and images analysis for biomedical applications**. This seventh Workshop will offer the participants an interdisciplinary platform for presenting and discussing new knowledge in the field of models, analysis and classification of voice signals and images, as far as both adults, singing and children voices are concerned. Modelling the normal and pathological voice source, analysis of healthy and pathological voices, are among the main fields of research. The aim is that of extracting the main voice characteristics, together with their deviation from "healthy conditions", ranging from fundamental research to all kinds of biomedical applications and related established and advanced technologies.

SCIENTIFIC PROGRAM

linear and non-linear models of voice signals;
measurement devices (signal and image);
robust techniques for voice and glottal analysis in time, frequency, cepstral, wavelet domain;
linguistic and clinical phonetics;
neurological dysfunction;
imaging techniques (laryngography, videokymography, fMRI);
voice enhancement;
protocols and database design;

physical and mechanical models; aids for disabled;
prostheses;
neural networks, artificial intelligence and other advanced methods for pathology classification;
new-born infant cry analysis;
multiparametric/multimodal analysis;
Industrial applications in the biomedical field;
singing voice;
speech/hearing interactions;

DEADLINES

15 April 2011	Submission of extended abstracts (1-2 pages, 1 column) /special session proposal
15 May 2011	Notification of paper acceptance
15 June 2011	Final full paper submission (4 pages, 2 columns, pdf format) and early registration
25-27 August 2011	Conference venue

Selected papers will be published in extended version on a peer reviewed International Journal Special Issue

THE MAVEBA 2011 WORKSHOP WILL BE HELD AS SATELLITE EVENT OF

INTERSPEECH 2011

<http://www.interspeech2011.org>

**August 27-31, 2011
Firenze, Italy**

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A. Corvi	Mechanics & Ind. Techn.
E. Iadanza	Electr. & Telecomm.
C. Manfredi	Electr. & Telecomm.

FURTHER INFORMATION

Claudia Manfredi – Conference Chair

Department of Electronics and Telecommunications
Via S. Marta 3, 50139 Firenze, Italy
Phone: +39-055-4796410
Fax: +39-055-494569
claudia.manfredi@unifi.it

Leonardo Bocchi

Department of Electronics and Telecommunications
Via S. Marta 3, 50139 Firenze, Italy
Phone: +39-055-4796410
Fax: +39-055-494569
leonardo.bocchi@unifi.it