MAVEBA
2019
Firenze, Italy

FOREWORD

This book of Proceedings includes the contributions presented at the 11th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications – MAVEBA 2019, held in Firenze from 17 to 19 December, 2019. That is, 20 years since the very first MAVEBA in 1999!

Looking back to those days, I remember well the spirit of adventure that inspired this initiative, both on my side and on that of my colleague Piero Bruscaglioni, with whom I also shared many subsequent MAVEBA editions.

MAVEBA started because of our curiosity and continued thanks to the enthusiasm of the participants. And today? Curiosity and enthusiasm are still there, with the awareness of a fascinating and increasingly interdisciplinary world. The large number of contributions collected in this Proceedings is the clear demonstration of this.

The main subjects concern methods for analyzing hoarseness and retrieving features of the human voice related to particular physiological or neurological conditions, with the aim of assessing reliable procedures for objective, quantitative definition of levels of voice disorders, singing voice parameters, newborn cry features, vocal fold and vocal tract modelling. The interdisciplinarity, that has always characterized the MAVEBA workshops, is well highlighted by the themes addressed, listed below.

I whish to give special thanks and greetings to the CoMeT Association, that is present at MAVEBA with a large number of its members. This year is a special one for CoMeT, celebrating the 50th anniversary from its foundation, and I am happy and proud to celebrate it together with the twenty-year anniversary of MAVEBA!

The papers presented at MAVEBA and collected in this volume are divided into nine Sessions, two Special Sessions, professionally coordinated by Dr. Franco Fussi and Dr. Philippe Dejonckere, and a Keynote lecture given by Thanasis Tsanas.

SESSION I – PARKINSON'S DISEASE AND SPEECH
SESSION II – SINGING VOICE
SESSION IIII - SPECIAL SESSION – EDUCATION AND REHABILITATION OF THE ARTISTIC VOICE
Coordinator: Franco Fussi
SESSION IV - VOICE AND EMOTIONS
SESSION V - VOICE QUALITY
SESSION VI - VOCAL FOLDS DYNAMICS
SESSION VII - COMET SESSION – ACTOR'S AND ACTRESS'VOICES
Coordinator: Philippe Dejonckere
SESSION VIII – VOCAL FOLDS PARALYSIS/ABNORMALITIES
SESSION IX - KEYNOTE LECTURE
DEVELOPING NEW SPEECH SIGNAL PROCESSING ALGORITHMS FOR BIOMEDICAL AND LIFE SCIENCES APPLICATIONS: PRINCIPLES, FINDINGS, CHALLENGES, AND A VIEW TO THE FUTURE
Thanasis Tsanas
SESSION X - BIOMECHANICS/DEVICES
SESSION XI – SPEECH
SESSION XII - VOICE VS OTHER PHYSIOLOGICAL SIGNALS/DISEASES

I am very grateful to the authors for their contribution and to all participants that stimulated the discussion and helped to propose new research themes and methodologies of analysis in a field that will always be evolving, even and hopefully in the next twenty years.

Claudia Manfredi