

# HSCMA - the joint workshop on

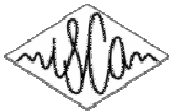
## **Hands-free Speech Communication and Microphone Arrays**

<http://HSCMA2008.fbk.eu>



**May 6 – May 8, 2008**  
**Castello del Buonconsiglio - Sala delle Marangonerie**  
**Trento – Italy**

### Technical Co-sponsors



### Co-organized by

Fondazione Bruno Kessler    Friedrich-Alexander University  
Povo - Trento, Italy    Erlangen - Nuremberg, Germany

### **Call for Papers**

The Joint Workshop on Hands-free Speech Communication and Microphone Arrays will be held on May 6-8, 2008, at Castello del Buonconsiglio in Trento, Italy. It follows the HSCMA held at Rutgers University in 2005, and continues the tradition of previous workshops on Hands-free Speech Communication (HSC) and Microphone Arrays (MA). The HSCMA 2008 workshop is mainly devoted to presenting recent advances in speech and signal processing techniques based upon multi-microphone systems, and to distant-talking speech communication and human/machine interaction. It brings together researchers and practitioners from universities and industry working in robust speech recognition, speech enhancement, high-quality sound capture, or multiple-input/multiple-output (MIMO) acoustic signal processing. It should also serve as a platform for presentations on: integration of multi-microphone technologies with other sensing devices (e.g., vision, haptics, etc); applications in related fields such as ambient intelligence and smart environments; and, common frameworks for the evaluation of technologies. Demonstrations of experimental systems and prototypes are especially welcome. The technical program will be scheduled to assign one day to multi-microphone processing methods, one day to hands-free speech communication issues, and one day to topics which are relevant either to both areas, or to new research directions.

### **Organizing Committee**

**James L. Flanagan**  
Honorary Chair  
(Rutgers Univ., USA)

**Walter Kellermann**  
Workshop CoChair  
(Univ. of Erlangen-  
Nuremberg, Germany)

**Maurizio Omologo**  
Workshop CoChair  
(FBK, Italy)

**Gary Elko**  
Technical CoChair  
(MH Acoustics LLC, USA)

**Sadaoki Furui**  
Technical CoChair  
(Tokyo Institute of  
Technology, Japan)

**Shoji Makino**  
Technical CoChair  
(NTT Communication  
Science Labs, Japan)

**Satoshi Nakamura**  
Technical CoChair  
(NICT/ATR, Japan)

### **Technical Scope**

The technical scope of the workshop includes, but it is not limited to:

- Multichannel acoustic signal processing for speech acquisition, interference mitigation and noise suppression, source localization and separation, dereverberation, echo cancellation, and acoustic event detection;
- Microphone array technology and architectures, especially for distant-talking automatic speech recognition (ASR) and acoustic scene analysis;
- ASR technology for hands-free interfaces, robust features, feature-level enhancement and dereverberation, speech corpora for training and benchmarking;
- Microphone arrays for multimodal human/machine communication;
- Spatial audio analysis and virtual sound rendering for immersive acoustics.

### **Paper submission**

Authors are invited to submit papers in any technical areas relevant to the workshop and are encouraged to give demonstrations of their work. The technical committee will select papers for poster-presentation. Due to a limitation in the possible number of participants, authors of accepted papers will have registration priority for the workshop.

For logistics aspects please contact:  
Luisa Perenthaler ([perenthaler@fbk.eu](mailto:perenthaler@fbk.eu))

For demo proposal please contact:  
Luca Cristoforetti ([cristofo@fbk.eu](mailto:cristofo@fbk.eu))

For further details, please contact:  
Maurizio Omologo ([omologo@fbk.eu](mailto:omologo@fbk.eu))  
Walter Kellermann ([wk@LNT.de](mailto:wk@LNT.de))

### **Deadlines/Important dates:**

Two-page abstract submission: January 25, 2008

Notification of acceptance: February 8, 2008

Four page paper final submission and author's registration: March 1, 2008