

## CALL FOR PARTICIPATION



### *Evaluating de-reverberation and ASR techniques in reverberant environments*

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#### Background

Recently, substantial progress has been made in the field of reverberant speech signal processing, including both single- and multi-channel de-reverberation techniques, and automatic speech recognition (ASR) techniques robust to reverberation. To evaluate state-of-the-art algorithms and draw new insights regarding potential future research directions, we call for participation in the REVERB (REverberant Voice Enhancement and Recognition Benchmark) challenge that will provide an opportunity to the researchers in the field to carry out a comprehensive evaluation of their methods based on a common database and on common evaluation metrics. The challenge aims at bringing together researchers from a broad range of disciplines to discuss novel and established approaches to handle reverberant speech. This challenge is part of the IEEE SPS AASP challenge series. The following is an outline description of the challenge.

#### REVERB Challenge Overview

Participants are required to evaluate their methods based on the following data and task(s), and submit the evaluation results and a paper that includes detailed description of their methods.

- Data: Real and simulated 1-, 2-, and 8-channel recordings in reverberant meeting rooms based on the Wall Street Journal Corpus. This data is common for the following 2 tasks\*.
- Task 1: Enhancement of reverberant speech with single-/multi-channel de-reverberation techniques (Evaluation metrics: objective and subjective measures)
- Task 2: Robust recognition of reverberant speech (Evaluation metric: word error rate)

*\* Participants are invited to take part in either or both of the above tasks.*

- Details: <http://reverb2014.dereverberation.org/>

#### REVERB Challenge Workshop

The results will be presented by the participants at the REVERB challenge workshop, which will be held in conjunction with ICASSP2014 and HSCMA2014.

#### Important Dates

Jul	1,	2013	Release of development dataset and scripts for evaluation
Nov	12,	2013	Release of evaluation dataset
Dec	8,	2013	Deadline for submission of results
Jan	19,	2014	Deadline for submission of papers
Feb	28,	2014	Notification of acceptance
May	10	2014	Workshop in conjunction with ICASSP2014 (Florence, Italy)

#### Organizing Committee

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