Extended Abstract Template for the CHiME 2016 Workshop

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Abstract

This template is identical to that of INTERSPEECH 2016[1], except that the layout of experimental results and the section contents are constrained.

The total number of pages must be equal to 2. Please submit your papers in PDF format with A4 paper size and embedded fonts. Do not add page headers, footers, or page numbers (these will be added later electronically).

1. Background

If you are entering the 4th CHiME Challenge, just mention the track(s) you are considering (1ch, 2ch, 6ch). Otherwise, define the task you are addressing.

Explain your contributions with respect to the state of the art for that track or task.

2. Contributions

Provide a technical description of your system emphasizing your contributions. If relevant, split into several subsections.

3. Experimental evaluation

Report the results achieved by your system.

If you are entering the 4th CHiME Challenge, please make sure that you follow the challenge instructions[2] regarding reporting of results. In particular, if your system is made of multiple blocks, you must report the results obtained using the baseline front end (BeamformIt) with your back end and the results obtained using your front end with one of the baseline back ends (GMM, DNN+sMBR, DNN+5-gram, or DNN+RNNLM). If you use extra data, you must also report the results of your system using the official training, development, and test data and explain clearly whether these extra data satisfy the challenge instructions[3] or not. Please report results using the following tables (add/remove tracks or systems as appropriate).

Table 1: Average WER (%) for the tested systems.

Track	System	Dev		Test	
		real	simu	real	simu
1ch	System 1	...	...	...	...
	System 2	...	...	...	...
	...	...	...	...	...
2ch	System 1	...	...	...	...
	System 2	...	...	...	...
	...	...	...	...	...
6ch	System 1	...	...	...	...
	System 2	...	...	...	...
	...	...	...	...	...

Table 2: WER (%) per environment for the best system.

Track	Envir.	Dev		Test	
		real	simu	real	simu
1ch	BUS	...	...	...	...
	CAF	...	...	...	...
	PED	...	...	...	...
	STR	...	...	...	...
2ch	BUS	...	...	...	...
	CAF	...	...	...	...
	PED	...	...	...	...
	STR	...	...	...	...
6ch	BUS	...	...	...	...
	CAF	...	...	...	...
	PED	...	...	...	...
	STR	...	...	...	...

4. Acknowledgments

[1] http://www.interspeech2016.org/local/uploads/content/files/IS2016_paper_kit.zip

[2] http://spandh.dcs.shef.ac.uk/chime_challenge/instructions.html

[3] You are allowed to modify the acoustic simulation baseline provided that you mix each speech signal with the same noise signal as in the original simulated set (i.e., only the impulse responses can change, not the noise instance). For more details, see the challenge instructions webpage and FAQ.