

University Avenue

University Avenue forms one boundary of the New Mexico State University campus. Recordings were made at a busy crosswalk located at a four-way traffic light. Fig. 1 shows the crosswalk on University Ave.



(a)



(b)

Figure 1: University Ave. looking (a) west and (b) northeast.

Recording Conditions

Extremely noisy
Minimal reverberation

Recording Equipment

(1) Dell Dimension XPS R400 PC (Pentium II @ 400MHz, 128MB RAM, 40GB disk, Windows 98)
(www.dell.com)

(1) Echo Layla 20-bit multitrack recording system (www.echoaudio.com)

- (2) Shure omni-directional microphone Model VP64A2 (www.shure.com)
- (2) Applied Research And Technology (ART) Professional processor series tube preamp (www.artroch.com)
- (2) Balanced (XLR) microphone cables from microphones to preamps
- (2) Balanced (XLR) microphone cables from preamps to Layla

Recording/Editing Software

Syntrillium Software Corporation's Cool Edit Pro v1.2 for recording and (www.syntrillium.com)
 Aurora Plug-in vx.x for Cool Edit pro for impulse response measurements (aurora.ramsete.com/aurora/)
 Mathwork's MATLAB v5.2 for editing signals to desired lengths (www.mathworks.com)
 SoundApp PPC v2.7.3 for sample rate conversion to 16kHz from 48kHz (www-cs-students.stanford.edu/~franke/SoundApp/)

Recording Setup

Fig. 2 shows the schematic of recording setup with dimensions. Two speakers each wearing a Lavalier stand on the sidewalk near an intersection. Two omni-directional microphones are placed approximately 10' away from the speakers in opposite directions and facing the traffic flow. Background noise (traffic, walk signal, etc...) are included in the recordings. A three-minute recording sampled at 48kHz, 16 bit resolution was done for each of the following scenarios:

- Recording 1* – Male speaker and male speaker with background noise
- Recording 2* – Male speaker and female speaker with background noise
- Background Noise* – Background noise only

Figure 2: Schematic of recording setup.

Available Files

The file naming scheme is as follows.

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aaaaaaaa_bc_dd_eee_fff.wav

a = Acoustic environment
b = (L)eft or (R)ight microphone
c = (C)lip-on or (O)mnidirectional Microphone
d = (M)ale(M)ale, (M)ale(F)emale, (F)emale(F)emale, (B)ackground(N)oise
e = fs, (16k) or (48k)
f = duration, (15) or (180) seconds

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Files available for this recording environment are listed below.

<i>Recording 1</i>	<i>Recording 2</i>
UnivAve_LC_MM_16k_15.wav	UnivAve_LC_MF_16k_15.wav
UnivAve_LC_MM_16k_180.wav	UnivAve_LC_MF_16k_180.wav
UnivAve_LC_MM_48k_15.wav	UnivAve_LC_MF_48k_15.wav
UnivAve_LC_MM_48k_180.wav	UnivAve_LC_MF_48k_180.wav
UnivAve_LO_MM_16k_15.wav	UnivAve_LO_MF_16k_15.wav
UnivAve_LO_MM_16k_180.wav	UnivAve_LO_MF_16k_180.wav
UnivAve_LO_MM_48k_15.wav	UnivAve_LO_MF_48k_15.wav
UnivAve_LO_MM_48k_180.wav	UnivAve_LO_MF_48k_180.wav
UnivAve_RC_MM_16k_15.wav	UnivAve_RC_MF_16k_15.wav
UnivAve_RC_MM_16k_180.wav	UnivAve_RC_MF_16k_180.wav
UnivAve_RC_MM_48k_15.wav	UnivAve_RC_MF_48k_15.wav
UnivAve_RC_MM_48k_180.wav	UnivAve_RC_MF_48k_180.wav
UnivAve_RO_MM_16k_15.wav	UnivAve_RO_MF_16k_15.wav
UnivAve_RO_MM_16k_180.wav	UnivAve_RO_MF_16k_180.wav
UnivAve_RO_MM_48k_15.wav	UnivAve_RO_MF_48k_15.wav

UnivAve_RO_MM_48k_180.wav

UnivAve_RO_MF_48k_180.wav

Background Noise

UnivAve_LC_BN_16k_15.wav

UnivAve_LC_BN_16k_180.wav

UnivAve_LC_BN_48k_15.wav

UnivAve_LC_BN_48k_180.wav

UnivAve_LO_BN_16k_15.wav

UnivAve_LO_BN_16k_180.wav

UnivAve_LO_BN_48k_15.wav

UnivAve_LO_BN_48k_180.wav

UnivAve_RC_BN_16k_15.wav

UnivAve_RC_BN_16k_180.wav

UnivAve_RC_BN_48k_15.wav

UnivAve_RC_BN_48k_180.wav

UnivAve_RO_BN_16k_15.wav

UnivAve_RO_BN_16k_180.wav

UnivAve_RO_BN_48k_15.wav

UnivAve_RO_BN_48k_180.wav

Room Impulse Response Measurement

There is no impulse response measured for this acoustic environment.