An example of context-dependent label format for HMM-based speech synthesis in Japanese

HTS Working Group

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p_1^p_2-p_3+p_4=p_5/A:a_1+a_2+a_3
/B:b_1-b_2_b_3 /C:c_1_c_2+c_3 /D:d_1+d_2_d_3
/E:e_1_e_2!e_3_e_4-e_5 /F:f_1_f_2#f_3_f_4@f_5_f_6|f_7_f_8 /G:g_1_g_2%g_3_g_4_g_5
/H:h_1_h_2 /I:i_1-i_2@i_3+i_4&i_5-i_6|i_7+i_8 /J:j_1_j_2
/K:k_1+k_2-k_3

p_1	the phoneme identity before the previous phoneme	
p_2	the previous phoneme identity	
p_3	the current phoneme identity	
p_4	the next phoneme identity	
p_5	the phoneme after the next phoneme identity	
a_1	the difference between accent type and position of the current mora identity	-49 ~ 49
a_2	position of the current mora identity in the current accent phrase (forward)	1 ~ 49
a_3	position of the current mora identity in the current accent phrase (backward)	1 ~ 49
b_1	pos (part-of-speech) of the previous word	
b_2	inflected forms of the previous word	
b_3	conjugation type of the previous word	
c_1	pos (part-of-speech) of the current word	
c_2	inflected forms of the current word	
c_3	conjugation type of the current word	
d_1	pos (part-of-speech) of the next word	
d_2	inflected forms of the next word	
d_3	conjugation type of the next word	
e_1	the number of moras in the previous accent phrase	1 ~ 49
e_2	accent type in the previous accent phrase	1 ~ 49
e_3	whether the previous accent phrase interrogative or not (0: not interrogative, 1: interrogative)	
e_4	undefined context	
e_5	whether pause insertion or not in between the previous accent phrase and the current accent phrase	
f_1	the number of moras in the current accent phrase	1 ~ 49
f_2	accent type in the current accent phrase	1 ~ 49
f_3	whether the current accent phrase interrogative or not (0: not interrogative, 1: interrogative)	
f_4	undefined context	
f_5	position of the current accent phrase identity in the current breath group by the accent phrase (forward)	1 ~ 49
f_6	position of the current accent phrase identity in the current breath group by the accent phrase (backward)	1 ~ 49
f_7	position of the current accent phrase identity in the current breath group by the mora (forward)	1 ~ 99
f_8	position of the current accent phrase identity in the current breath group by the mora (backward)	1 ~ 99
g_1	the number of moras in the next accent phrase	1 ~ 49
g_2	accent type in the next accent phrase	1 ~ 49
g_3	whether the next accent phrase interrogative or not (0: not interrogative, 1: interrogative)	
g_4	undefined context	
g_5	whether pause insertion or not in between the next accent phrase and the current accent phrase	
h_1	the number of accent phrases in the previous breath group by the accent phrase	1 ~ 49
h_2	the number of accent phrases in the previous breath group by the mora	1 ~ 99
i_1	the number of accent phrases in the current breath group by the accent phrase	1 ~ 49
i_2	the number of accent phrases in the current breath group by the mora	1 ~ 99
i_3	position of the current breath group identity by breath group (forward)	1 ~ 19
i_4	position of the current breath group identity by breath group (backward)	1 ~ 19
i_5	position of the current breath group identity by accent phrase (forward)	1 ~ 49
i_6	position of the current breath group identity by accent phrase (backward)	1 ~ 49
i_7	position of the current breath group identity by mora (forward)	1 ~ 199
i_8	position of the current breath group identity by mora (backward)	1 ~ 199
j_1	the number of accent phrases in the next breath group by the accent phrase	1 ~ 49
j_2	the number of accent phrases in the next breath group by the mora	1 ~ 99
k_1	the number of this utterance by the breath group	1 ~ 19
k_2	the number of this utterance by the accent phrase	1 ~ 49
k_3	the number of this utterance by the mora	1 ~ 199