ass_features

<userName>

June 29, 2016

distance	nn	pa3	pa4	pa5	pa6	pa7	pa8	pa9
gaussian_full	0.02	**0.59**	0.51	0.47	0.43	0.40	0.38	0.36
gaussian_full	0.04	**0.59**	**0.52**	**0.47**	**0.44**	**0.41**	**0.39**	0.37
gaussian_full	0.08	0.59	0.50	0.45	0.44	0.41	0.39	**0.37**
gaussian_full	0.10	0.59	0.50	0.46	0.44	0.41	0.39	**0.37**
euclidean		0.57	0.49	0.45	0.41	0.38	0.36	0.36
cosine		0.55	0.47	0.42	0.38	0.36	0.33	0.30

Table 1: dataset: train, features: mfcc, framing_short: 0,025_0,05, freqRange: 27,5_22050, mfccRank: 13, mfccCoefo: 0, ftrsNorm1: null, ftrsNorm2: null, ftrsSel: null

distance	nn	pa3	pa4	pa5	pa6	pa7	pa8	pa9
gaussian_full	0.02	0.58	0.51	0.47	0.44	0.40	0.38	0.35
gaussian_full	0.04	0.57	0.51	0.47	**0.45**	0.41	0.38	0.36
gaussian_full	0.08	0.58	0.52	**0.48**	0.43	0.41	**0.39**	**0.37**
gaussian_full	0.10	0.58	0.52	0.48	0.43	**0.41**	0.39	**0.37**
euclidean		0.58	0.51	0.45	0.41	0.39	0.36	0.34
cosine		**0.59**	**0.52**	0.46	0.43	0.40	0.38	0.35

Table 2: dataset: train, features: mfcc, framing_short: 0,025_0,05, freqRange: 27,5_22050, mfccRank: 13, mfccCoefo: 0, ftrsNorm1: null, ftrsNorm2: stand, ftrsSel: null

distance	nn	Ac1	Ac2	Ac3	Ac4	Ac5	Ac6	Ac7	Ac8
gaussian_full	0.02	**0.43±0.12**	**0.47±0.06**	**0.40±0.11**	**0.37±0.09**	**0.44±0.07**	**0.42±0.10**	**0.45±0.08**	**0.51±0.13**
gaussian_full	0.04	**0.44±0.08**	**0.47±0.06**	**0.40±0.08**	**0.42±0.09**	**0.49±0.07**	**0.47±0.06**	**0.48±0.08**	**0.49±0.07**
gaussian_full	0.08	**0.42±0.08**	**0.46±0.04**	**0.38±0.04**	**0.41±0.08**	**0.43±0.08**	**0.49±0.07**	**0.46±0.07**	**0.48±0.08**
gaussian_full	0.10	**0.44±0.09**	**0.46±0.04**	**0.38±0.04**	**0.41±0.10**	**0.44±0.10**	**0.49±0.07**	**0.46±0.07**	**0.48±0.08**
euclidean		**0.43±0.14**	**0.42±0.07**	**0.38±0.08**	**0.38±0.08**	0.39±0.07	**0.43±0.06**	**0.45±0.09**	**0.49±0.07**
cosine		**0.41±0.04**	0.32±0.04	**0.31±0.04**	**0.35±0.08**	0.34±0.07	0.31±0.11	0.34±0.10	0.32±0.08

Table 3: dataset: train, features: mfcc, framing_short: 0,025_0,05, freqRange: 27,5_22050, mfccRank: 13, mfccCoefo: 0, ftrsNorm1: null, ftrsNorm2: null, ftrsSel: null

distance	nn	Ac1	Ac2	Ac3	Ac4	Ac5	Ac6	Ac7	Ac8
gaussian_full	0.02	**0.48±0.08**	**0.42±0.06**	**0.41±0.07**	**0.42±0.07**	**0.47±0.06**	**0.48±0.08**	**0.48±0.04**	**0.48±0.06**
gaussian_full	0.04	**0.47±0.03**	**0.41±0.09**	**0.39±0.04**	**0.44±0.10**	**0.51±0.04**	**0.49±0.04**	**0.47±0.08**	**0.46±0.08**
gaussian_full	0.08	**0.48±0.04**	**0.42±0.08**	**0.39±0.07**	**0.46±0.07**	**0.47±0.04**	**0.46±0.07**	**0.46±0.08**	**0.48±0.09**
gaussian_full	0.10	**0.48±0.04**	**0.42±0.08**	**0.40±0.08**	**0.48±0.04**	**0.46±0.04**	**0.47±0.09**	**0.49±0.07**	**0.47±0.08**
euclidean		**0.44±0.08**	**0.41±0.09**	**0.37±0.03**	**0.41±0.10**	0.39±0.04	0.40±0.06	**0.40±0.06**	**0.41±0.07**
cosine		**0.43±0.03**	**0.39±0.07**	**0.37±0.04**	0.40±0.04	**0.42±0.09**	**0.44±0.07**	**0.45±0.06**	**0.44±0.08**

Table 4: dataset: train, features: mfcc, framing_short: 0,025_0,05, freqRange: 27,5_22050, mfccRank: 13, mfccCoefo: 0, ftrsNorm1: null, ftrsNorm2: stand, ftrsSel: null

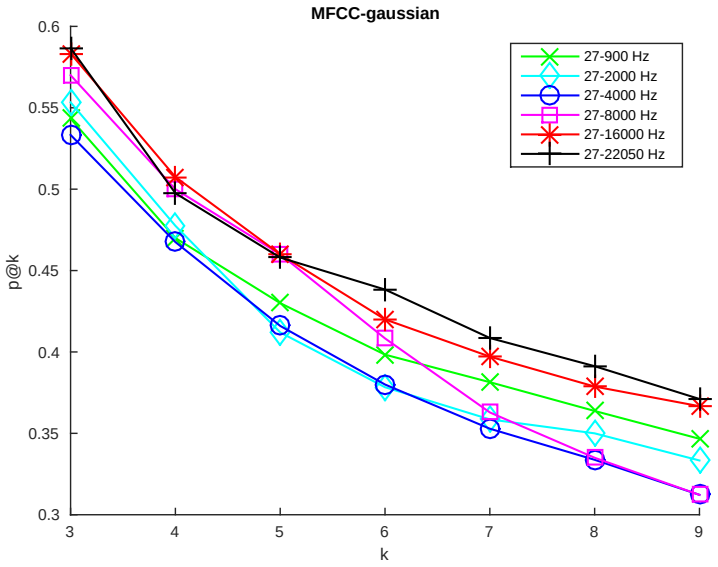

Figure 1: dataset: train, features: mfcc, framing_short: 0,025_0,05, mfccRank: 13, mfccCoefo: 0, ftrsNorm1: null, ftrsNorm2: null, ftrsSel: null, distance: gaussian_full, nn: 0.1

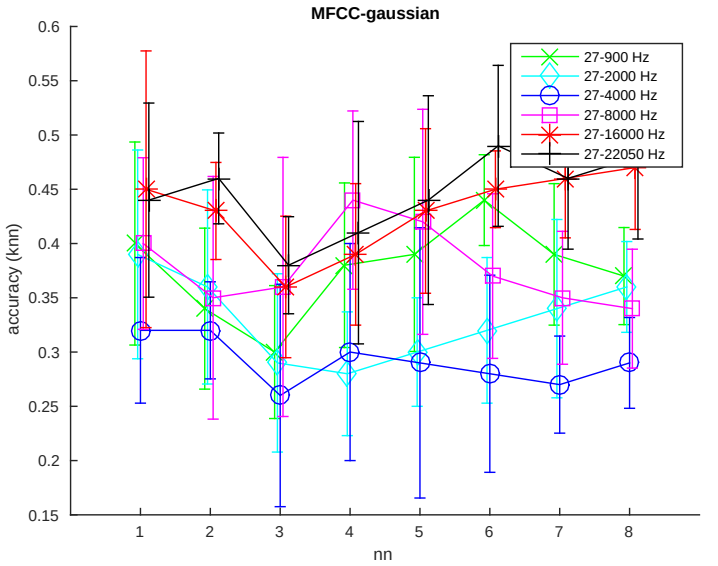

Figure 2: dataset: train, features: mfcc, framing_short: 0,025_0,05, mfccRank: 13, mfccCoefo: 0, ftrsNorm1: null, ftrsNorm2: null, ftrsSel: null, distance: gaussian_full, nn: 0.1

ftrsNorm_scat_selection	ftrsNorm_scat_threshold	pa3	pa4	pa5	pa6	pa7	pa8	pa9
0.90	0.00	0.57	0.51	0.47	0.43	0.40	0.38	0.36
0.90	0.10	0.63	0.56	0.52	0.49	0.45	0.42	0.40
1.00	0.00	0.60	0.52	0.48	0.44	0.41	0.39	0.38
1.00	0.10	**0.66**	**0.58**	**0.54**	**0.50**	**0.47**	**0.44**	**0.43**

Table 5: dataset: train, features: scatteringV, ftrsNorm1: null, ftrsNorm_scat_log: 0, ftrsSel: null, distance: gaussian_full, nn: 0.1

ftrsNorm_scat_selection	ftrsNorm_scat_threshold	pa3	pa4	pa5	pa6	pa7	pa8	pa9
0.90	0.00	**0.69**	**0.65**	**0.58**	0.54	**0.51**	**0.49**	**0.46**
0.90	0.10	**0.69**	**0.65**	**0.58**	0.54	**0.51**	**0.49**	**0.46**
1.00	0.00	0.68	0.64	0.57	**0.54**	0.50	0.48	0.46
1.00	0.10	0.68	0.64	0.57	**0.54**	0.50	0.48	0.46

Table 6: dataset: train, features: scatteringV, ftrsNorm1: null, ftrsNorm_scat_log: 1, ftrsSel: null, distance: gaussian_full, nn: 0.1

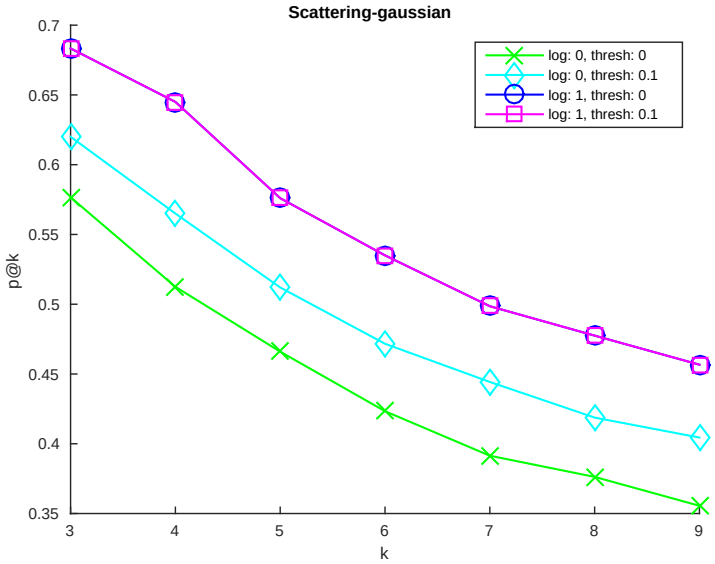

Figure 3: dataset: train, features: scatteringV, ftrsNorm1: null, ftrsNorm_scat_selection: 0.9, ftrsSel: null, distance: gaussian_full, nn: 0.04

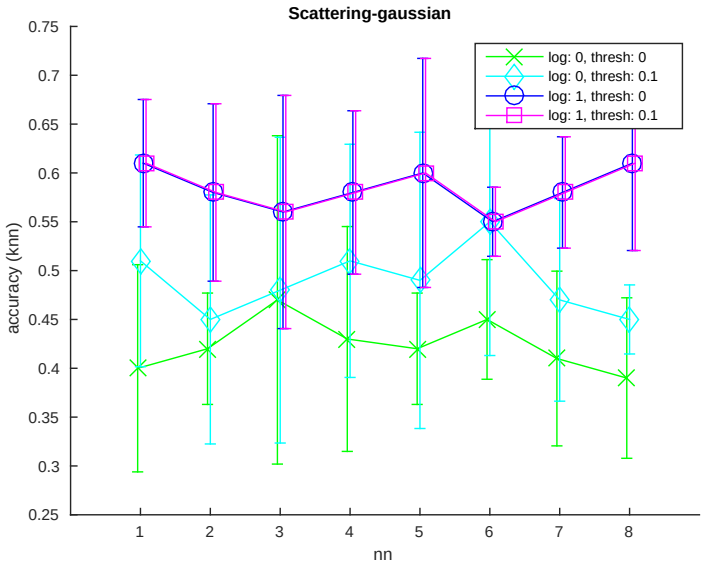

Figure 4: dataset: train, features: scatteringV, ftrsNorm1: null, ftrsNorm_scat_selection: 0.9, ftrsSel: null, distance: gaussian_full, nn: 0.04

nn	Ac1	Ac2	Ac3	Ac4	Ac5	Ac6	Ac7	Ac8
0.02	0.61±0.05	0.56±0.10	0.53±0.10	0.59±0.08	0.60±0.10	0.59±0.05	0.56±0.04	0.58±0.07
0.04	0.61±0.07	0.58±0.09	0.56±0.12	0.58±0.08	0.60±0.12	0.55±0.04	0.58±0.06	0.61±0.09
0.08	0.61±0.05	0.59±0.09	0.57±0.12	0.57±0.12	0.58±0.10	0.58±0.09	0.55±0.08	0.61±0.07
0.10	0.61±0.05	0.60±0.10	0.57±0.12	0.59±0.12	0.59±0.10	0.58±0.09	0.55±0.08	0.60±0.08

Table 7: dataset: train, features: scatteringV, ftrsNorm1: null, ftrsNorm_scat_log: 1, ftrsNorm_scat_selection: 0.9, ftrsNorm_scat_threshold: 0.1, ftrsSel: null, distance: gaussian_full

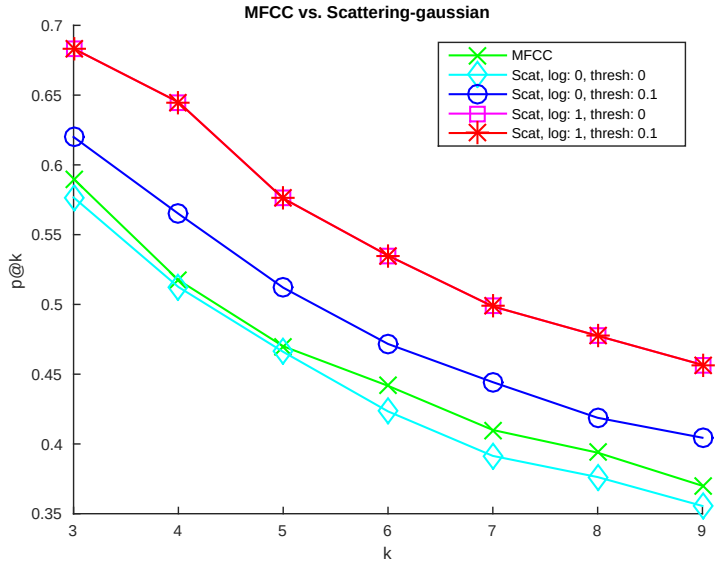

Figure 5: dataset: train, framing_short: 0,025_0,05, freqRange: 27,5_22050, mfccRank: 13, mfccCoefo: 0, ftrsNorm1: null, ftrsNorm2: null, ftrsNorm_scat_selection: 0.9, ftrsSel: null, distance: gaussian_full, nn: 0.04

References

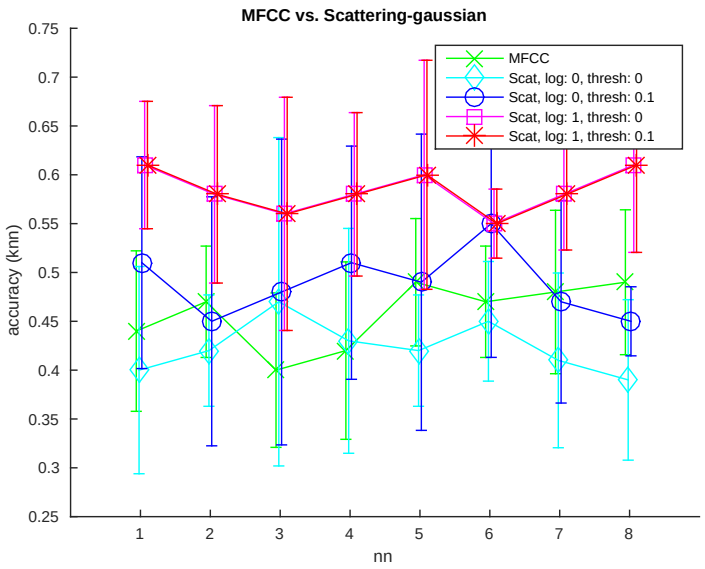

Figure 6: dataset: train, framing_short: 0,025_0,05, freqRange: 27,5_22050, mfccRank: 13, mfccCoefo: 0, ftrsNorm1: null, ftrsNorm2: null, ftrsNorm_scat_selection: 0.9, ftrsSel: null, distance: gaussian_full, nn: 0.04