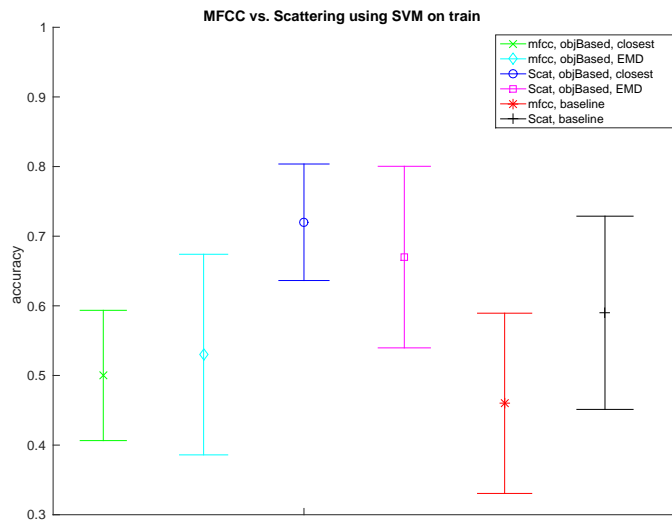# sceneSvm
Grégoire Lafay
July 1, 2016

Figure 1: cut: 0.02, set: train, select: 20
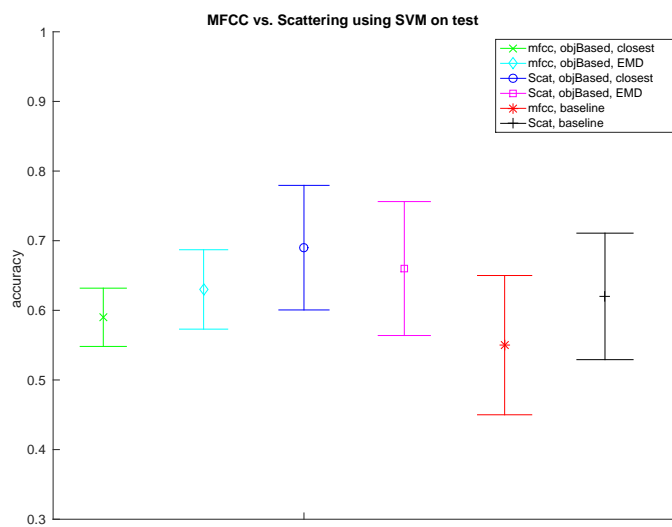

Figure 2: cut: 0.02, set: test, select: 20

References

features	kernel	cut	distance	select	accuracy
mfcc	objectBased	0.02	closest	10	0.49±0.07
mfcc	objectBased	0.02	closest	20	0.50±0.09
mfcc	objectBased	0.02	closest	30	0.46±0.10
mfcc	objectBased	0.02	closest	40	0.49±0.09
mfcc	objectBased	0.02	emd	10	0.52±0.14
mfcc	objectBased	0.02	emd	20	0.53±0.14
mfcc	objectBased	0.02	emd	30	**0.54±0.16**
mfcc	objectBased	0.02	emd	40	0.54±0.12
mfcc	objectBased	0.04	closest	10	0.50±0.08
mfcc	objectBased	0.04	closest	20	0.46±0.07
mfcc	objectBased	0.04	closest	30	0.46±0.10
mfcc	objectBased	0.04	closest	40	0.51±0.08
mfcc	objectBased	0.04	emd	10	0.53±0.12
mfcc	objectBased	0.04	emd	20	0.54±0.13
mfcc	objectBased	0.04	emd	30	0.54±0.14
mfcc	objectBased	0.04	emd	40	0.55±0.13
mfcc	objectBased	0.08	closest	10	0.50±0.06
mfcc	objectBased	0.08	closest	20	0.45±0.07
mfcc	objectBased	0.08	closest	30	0.43±0.06
mfcc	objectBased	0.08	closest	40	0.49±0.11
mfcc	objectBased	0.08	emd	10	0.52±0.12
mfcc	objectBased	0.08	emd	20	0.56±0.12
mfcc	objectBased	0.08	emd	30	0.53±0.14
mfcc	objectBased	0.08	emd	40	0.55±0.11
mfcc	objectBased	0.10	closest	10	0.49±0.07
mfcc	objectBased	0.10	closest	20	0.44±0.07
mfcc	objectBased	0.10	closest	30	0.46±0.07
mfcc	objectBased	0.10	closest	40	0.48±0.10
mfcc	objectBased	0.10	emd	10	0.52±0.12
mfcc	objectBased	0.10	emd	20	0.54±0.13
mfcc	objectBased	0.10	emd	30	0.54±0.13
mfcc	objectBased	0.10	emd	40	0.55±0.11
scatteringV	objectBased	0.02	closest	10	**0.71±0.08**
scatteringV	objectBased	0.02	closest	20	**0.72±0.08**
scatteringV	objectBased	0.02	closest	30	**0.68±0.10**
scatteringV	objectBased	0.02	closest	40	**0.69±0.08**
scatteringV	objectBased	0.02	emd	10	**0.65±0.11**
scatteringV	objectBased	0.02	emd	20	**0.67±0.13**
scatteringV	objectBased	0.02	emd	30	**0.66±0.11**
scatteringV	objectBased	0.02	emd	40	**0.65±0.13**
scatteringV	objectBased	0.04	closest	10	**0.72±0.09**
scatteringV	objectBased	0.04	closest	20	**0.70±0.10**
scatteringV	objectBased	0.04	closest	30	**0.68±0.08**
scatteringV	objectBased	0.04	closest	40	**0.68±0.08**
scatteringV	objectBased	0.04	emd	10	**0.63±0.13**
scatteringV	objectBased	0.04	emd	20	**0.65±0.13**
scatteringV	objectBased	0.04	emd	30	**0.65±0.13**
scatteringV	objectBased	0.04	emd	40	**0.65±0.13**
scatteringV	objectBased	0.08	closest	10	**0.71±0.14**
scatteringV	objectBased	0.08	closest	20	**0.69±0.13**
scatteringV	objectBased	0.08	closest	30	**0.68±0.09**
scatteringV	objectBased	0.08	closest	40	**0.68±0.07**
scatteringV	objectBased	0.08	emd	10	**0.63±0.10**
scatteringV	objectBased	0.08	emd	20	**0.65±0.13**
scatteringV	objectBased	0.08	emd	30	**0.63±0.13**
scatteringV	objectBased	0.08	emd	40	**0.63±0.13**
scatteringV	objectBased	0.10	closest	10	**0.70±0.14**
scatteringV	objectBased	0.10	closest	20	**0.69±0.13**
scatteringV	objectBased	0.10	closest	30	**0.67±0.10**
scatteringV	objectBased	0.10	closest	40	**0.68±0.07**
scatteringV	objectBased	0.10	emd	10	**0.63±0.13**
scatteringV	objectBased	0.10	emd	20	**0.63±0.13**
scatteringV	objectBased	0.10	emd	30	**0.63±0.13**
scatteringV	objectBased	0.10	emd	40	**0.63±0.13**
mfcc	baseline	0.02			0.46±0.13
mfcc	baseline	0.04			0.48±0.10
mfcc	baseline	0.08			0.47±0.14
mfcc	baseline	0.10			0.48±0.13
scatteringV	baseline	0.02			**0.59±0.14**
scatteringV	baseline	0.04			**0.61±0.14**
scatteringV	baseline	0.08			**0.62±0.14**
scatteringV	baseline	0.10			**0.61±0.14**

Table 1: set: train