

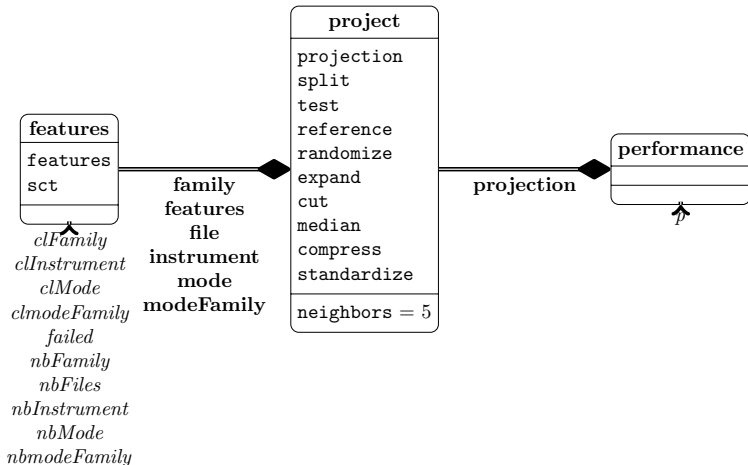
timbralSimilaritySolScatteringTechniqueSlides

Mathieu Lagrange

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This is the report to document the expLanes project
timbralSimilaritySol using L^AT_EX.

Factors flow graph



Sol db

nbFiles	25444
<hr/>	
nbFamily	16
nbInstrument	33
nbMode	469
nbmodeFamily	143

Sol db

clFamily	1590 \pm 936
clInstrument	771 \pm 814
clMode	54 \pm 59
clmodeFamily	178 \pm 429

Mel / mfcc: sct: 25, projection: none, split: none,
reference: family, randomize: 0, expand: 0

features	cut	standardize	p (%)
mfcc	0	0	85
mfcc	0	1	84
mfcc	1	0	88
mfcc	1	1	89
mel		0	53
mel		1	50

Mel / mfcc: sct: 25, projection: none, split: none,
reference: modeFamily, randomize: 0, expand: 0

features	cut	standardize	p (%)
mfcc	0	0	35
mfcc	0	1	32
mfcc	1	0	46
mfcc	1	1	45
mel		0	19
mel		1	19

Scattering: features: scat, sct: 25, projection: none, split:
none, reference: family, randomize: 0

median	compress	standardize	p (%)
0	0	0	64
0	0	1	76
0	1	0	84
0	1	1	83
1	0	0	77
1	0	1	76
1	1	0	89
1	1	1	89

Scattering: features: scat, sct: 25, projection: none, split: none, reference: modeFamily, randomize: 0

median	compress	standardize	p (%)
0	0	0	28
0	0	1	38
0	1	0	43
0	1	1	43
1	0	0	40
1	0	1	38
1	1	0	50
1	1	1	50

Projection: sct: 25, split: none, reference: family,
randomize: 0, expand: 0, cut: 1, median: 1, compress: 1,
standardize: 1

features	mfcc	scat
none	89	89
lmnn	90	98
lda	87	96

Projection: sct: 25, split: none, reference: modeFamily,
randomize: 0, expand: 0, cut: 1, median: 1, compress: 1,
standardize: 1

features	mfcc	scat
none	45	50
lmnn	48	53
lda	50	52

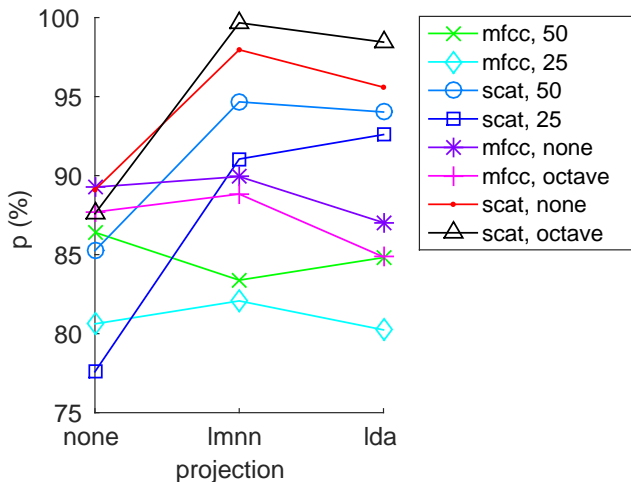
Control learning: sct: 25, split: none, reference: family,
cut: 1, median: 1, compress: 1, standardize: 1

features	randomize	expand	none	lmnn	lda
mfcc	0	0	89	90	87
mfcc	0	494	88	91	89
mfcc	1	0	8	8	8
mfcc	1	494	8	9	9
scat	0		89	98	96
scat	1		8	9	9

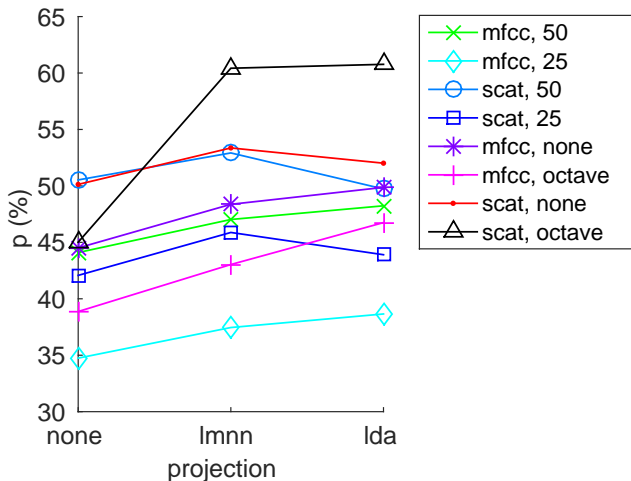
Control learning: sct: 25, split: none, reference:
modeFamily, cut: 1, median: 1, compress: 1, standardize:
1

features		randomize	expand	none	lmnn	lda
mfcc	0	0	45	48	50	
mfcc	0	494	43	49	49	
mfcc	1	0	5	5	5	
mfcc	1	494	5	4	5	
scat	0		50	53	52	
scat	1		5	4	5	

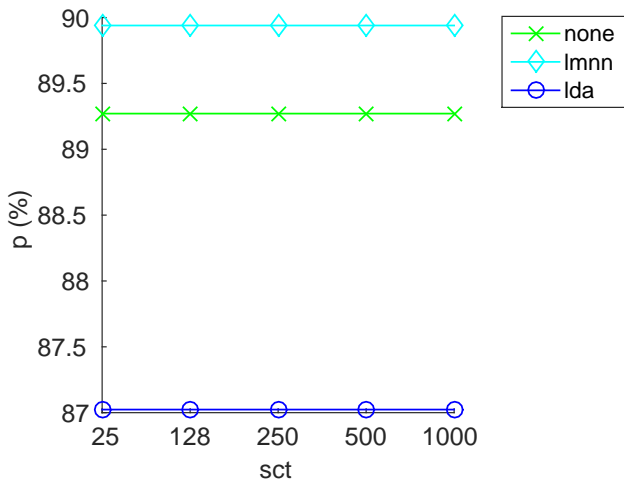
db splitting: sct: 25, test: 1, reference: family, randomize: 0, expand: 0, cut: 1,
median: 1, compress: 1, standardize: 1



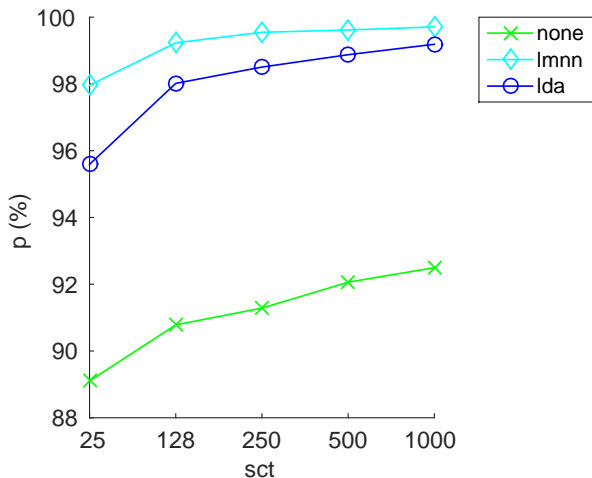
db splitting: sct: 25, test: 1, reference: modeFamily, randomize: 0, expand: 0, cut: 1, median: 1, compress: 1, standardize: 1



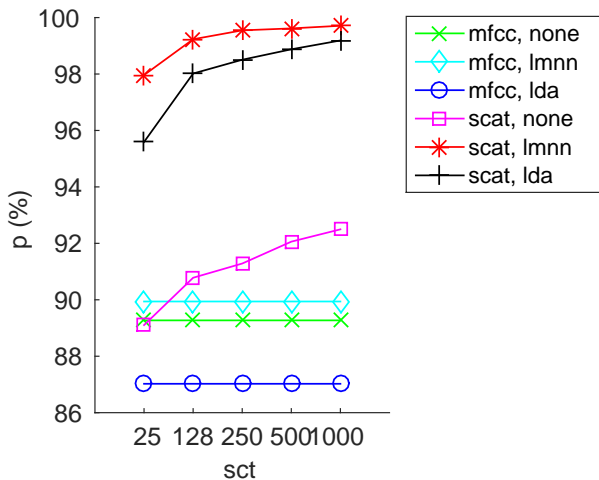
T: features: mfcc, reference: family, split: none, randomize: 0, expand: 0, cut: 1,
standardize: 1



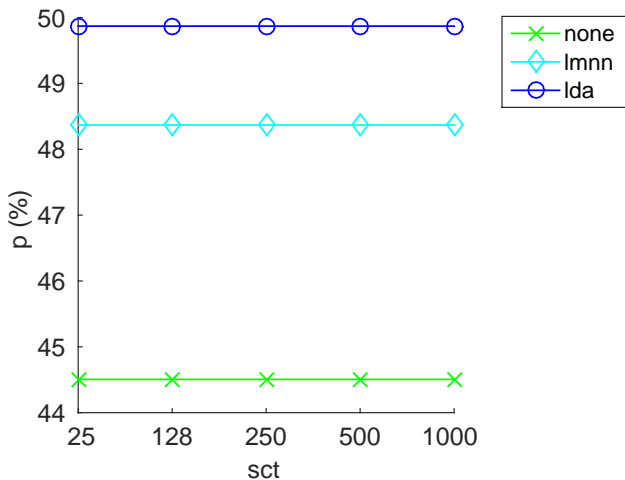
T: features: scat, reference: family, split: none, randomize: 0, median: 1,
compress: 1, standardize: 1



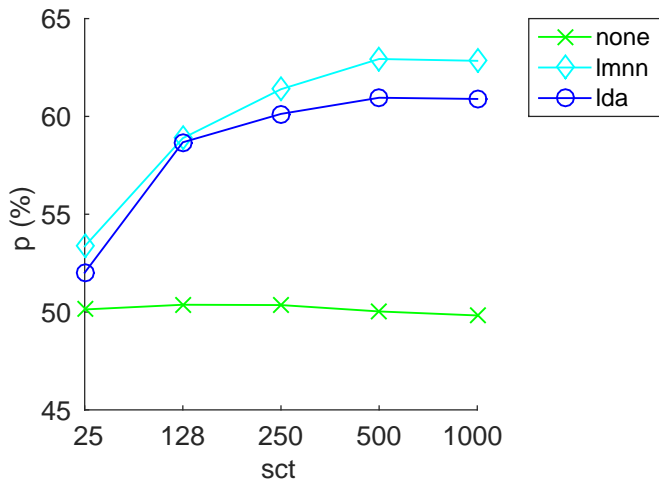
T: reference: family, split: none, randomize: 0, expand: 0, cut: 1, median: 1,
compress: 1, standardize: 1



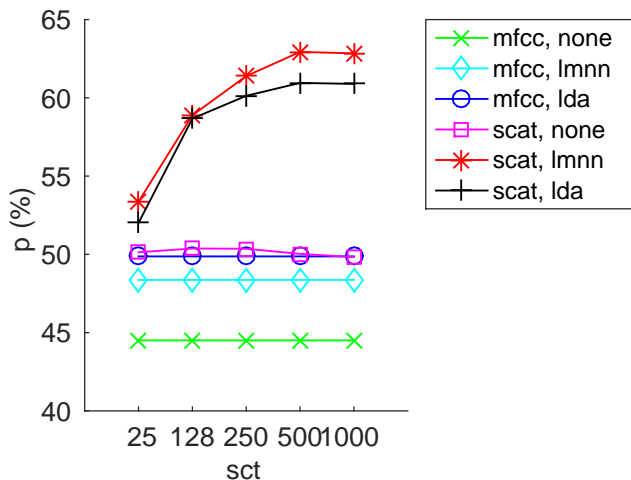
T: features: mfcc, reference: modeFamily, split: none, randomize: 0, expand: 0,
cut: 1, standardize: 1



T: features: scat, reference: modeFamily, split: none, randomize: 0, median: 1,
compress: 1, standardize: 1



T: reference: modeFamily, split: none, randomize: 0, expand: 0, cut: 1, median: 1, compress: 1, standardize: 1



conclusion: split: none, randomize: 0, expand: 0, cut: 1, median: 1, compress: 1,
standardize: 1

