

AAM Data Report

Generated by the AAM-API
[c:/users/mbs/studies/hands/model6.no.outliers]

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January 18, 2002

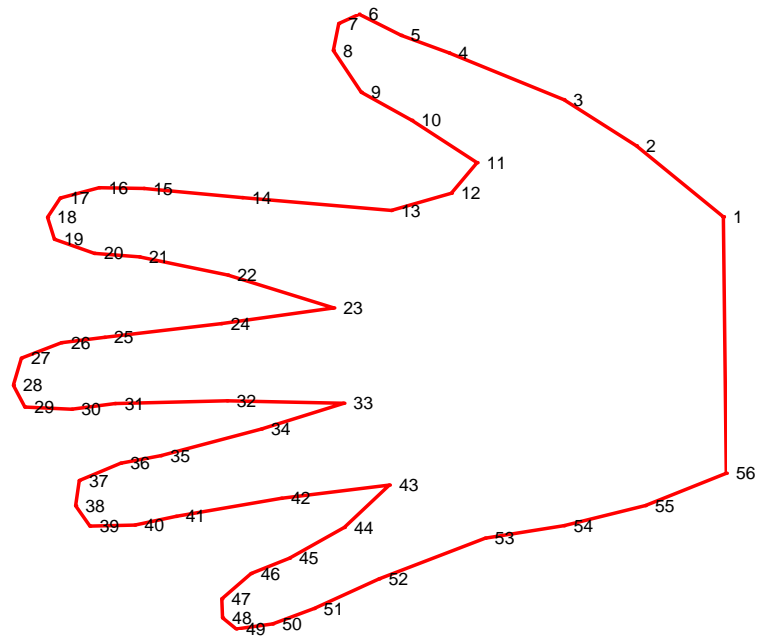


Figure 1: Mean shape.

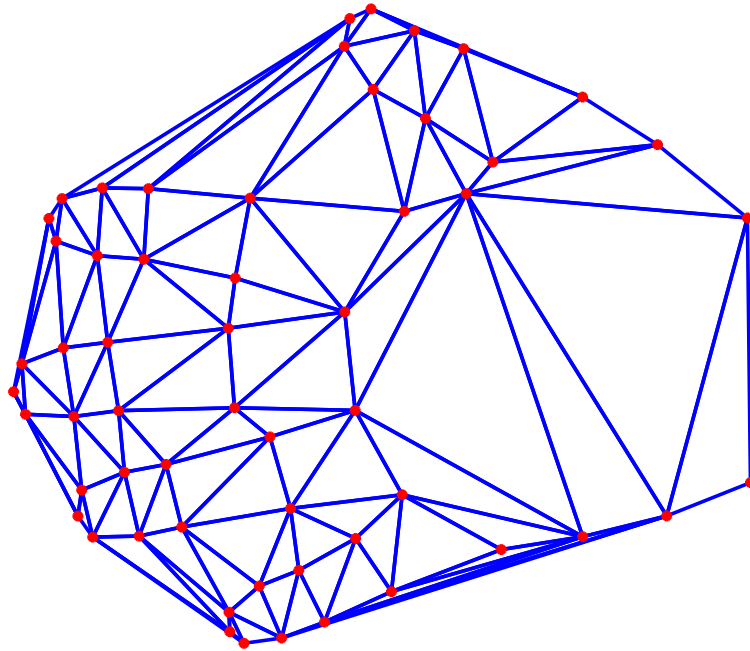


Figure 2: Delaunay triangulation of the mean shape.

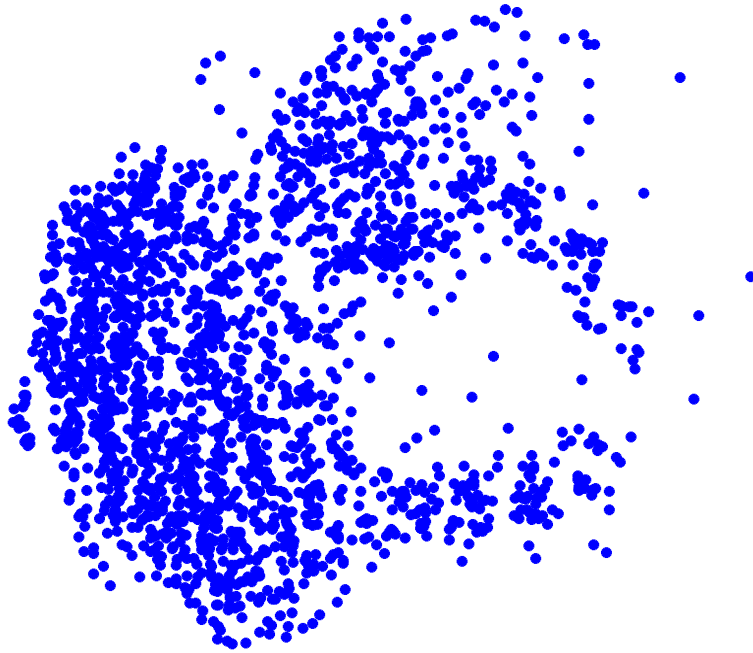


Figure 3: Point cloud of the unaligned annotations.

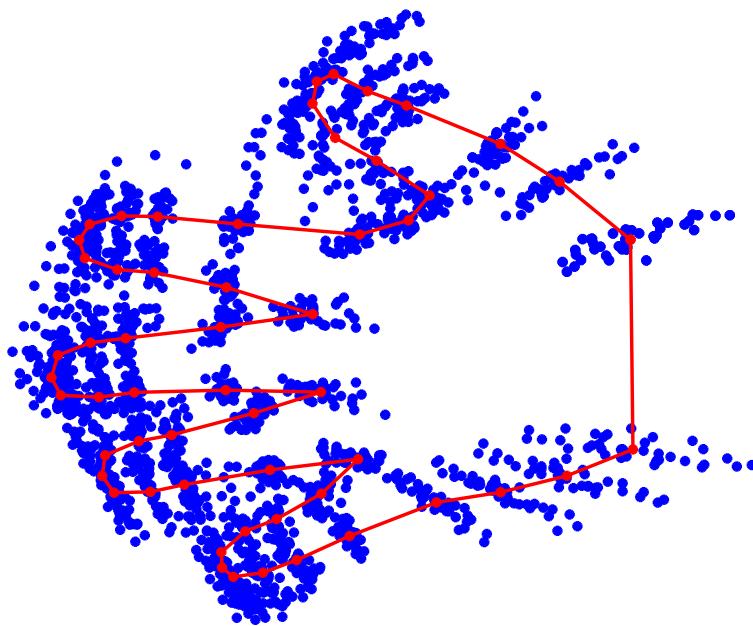


Figure 4: Point cloud of the aligned annotations with mean shape fully drawn in red.

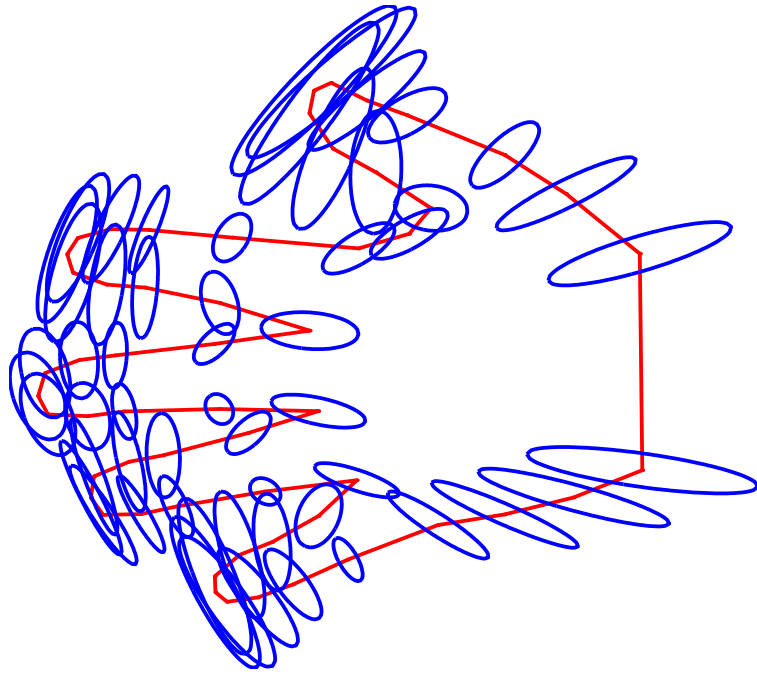


Figure 5: Independent principal component analysis of each model point.

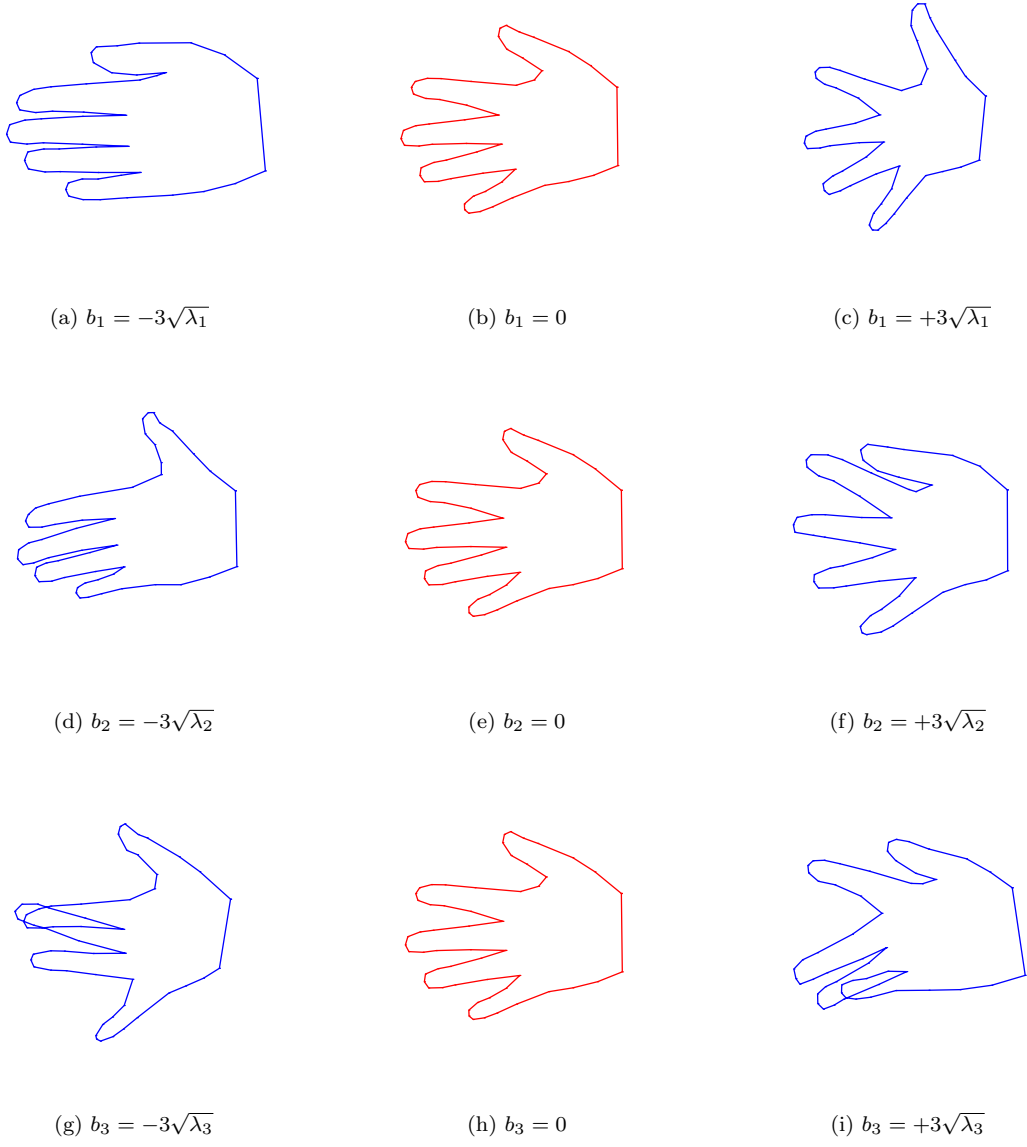


Figure 6: Mean shape deformation using 1st, 2nd and 3rd principal mode. $b_i = -3\sqrt{\lambda_i}$, $b_i = 0$, $b_i = 3\sqrt{\lambda_i}$.

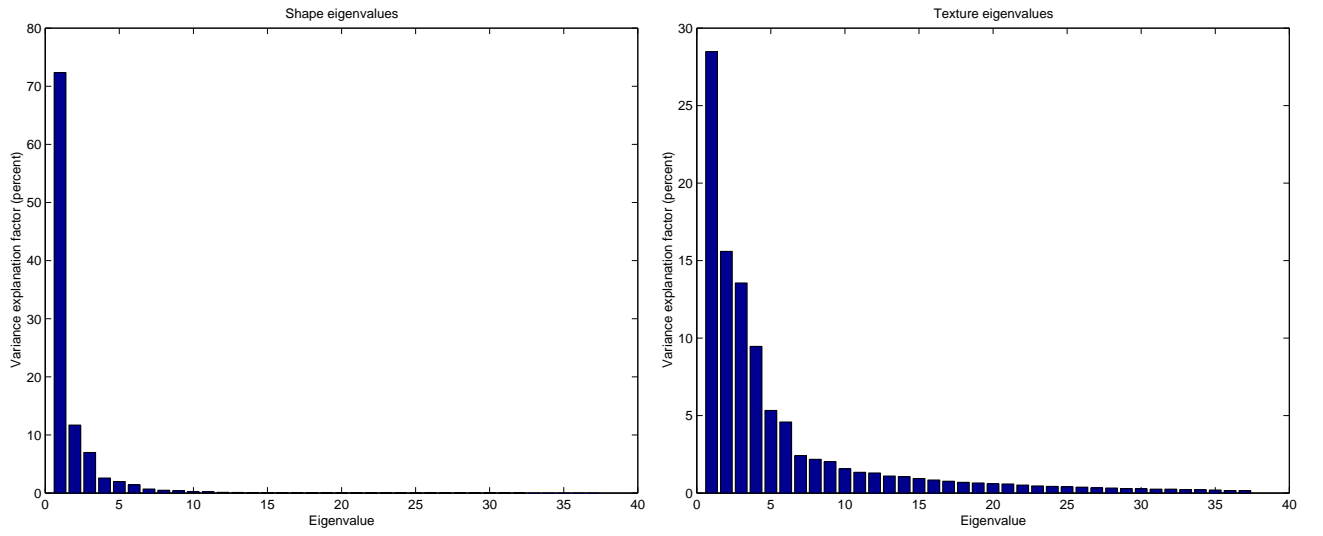


Figure 7: Shape (left) and texture (right) eigenvalues in descending order.

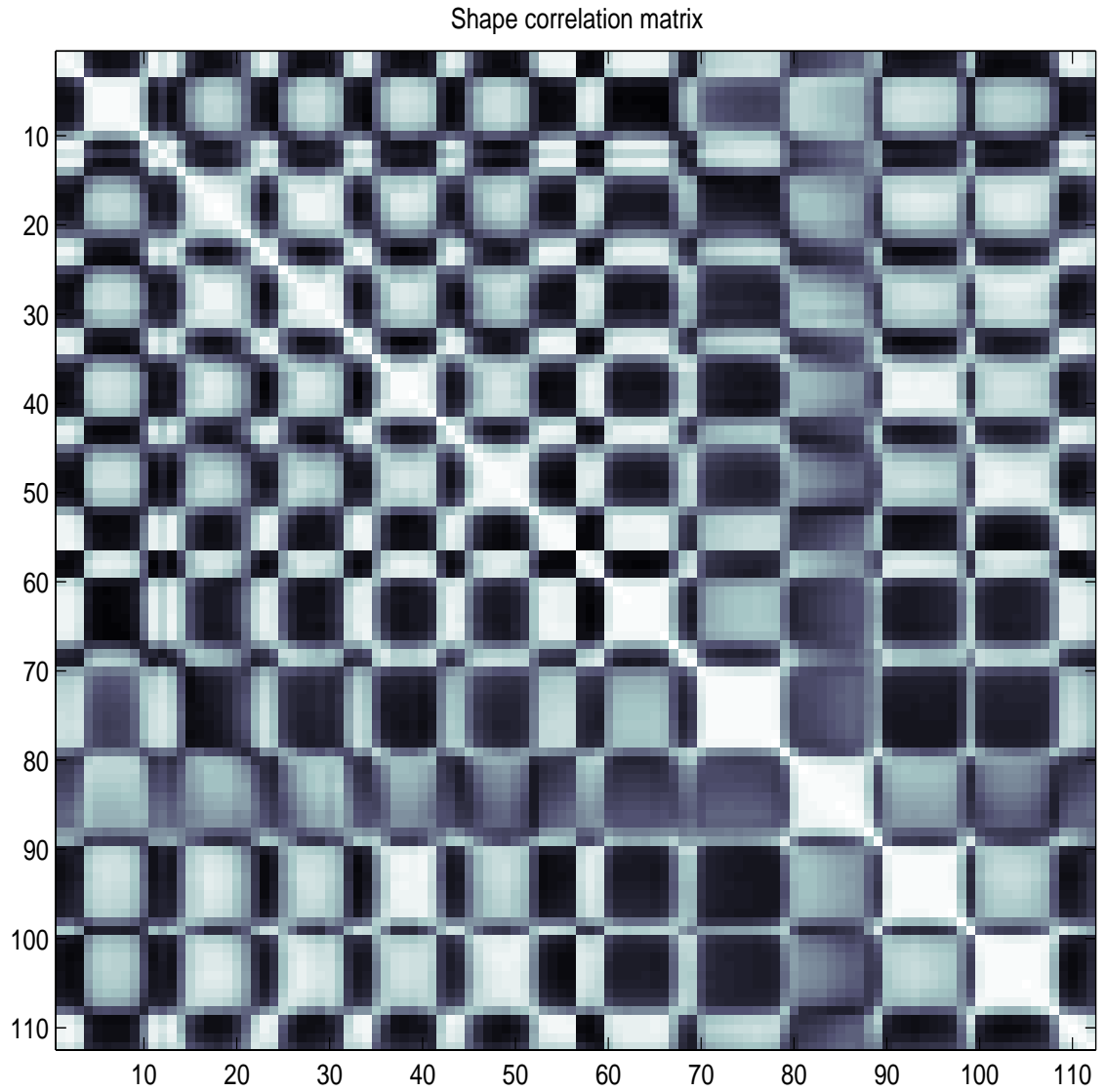


Figure 8: Correlation matrix of the annotations.

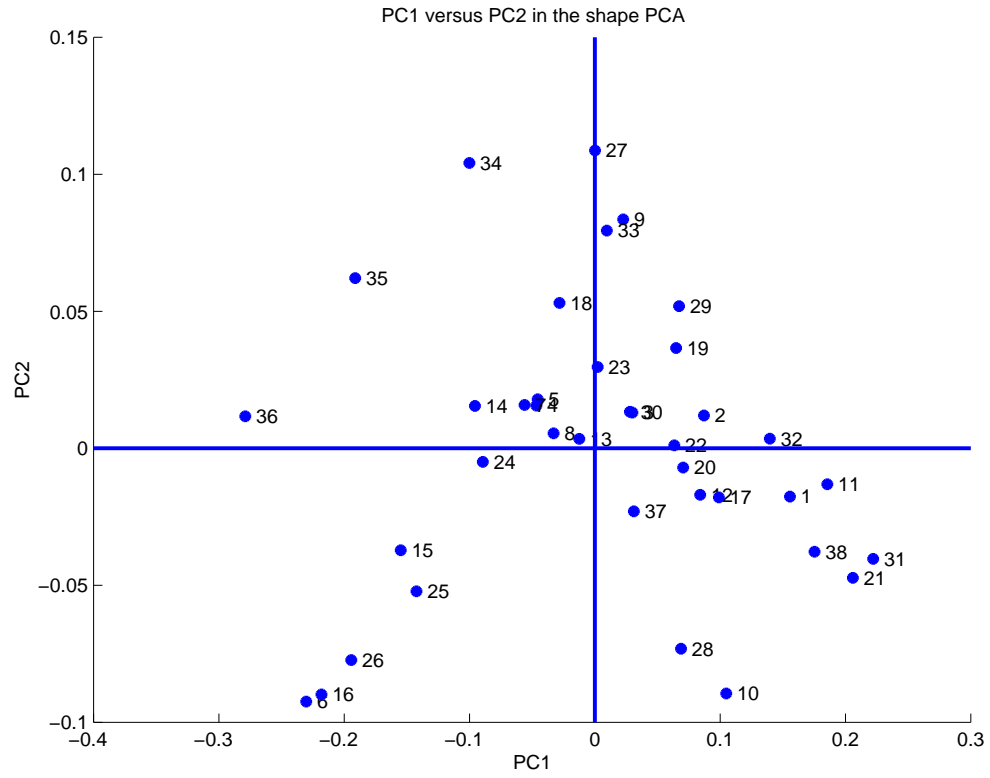


Figure 9: PC1 ($b_{s,1}$) vs. PC2 ($b_{s,2}$) in the shape PCA.

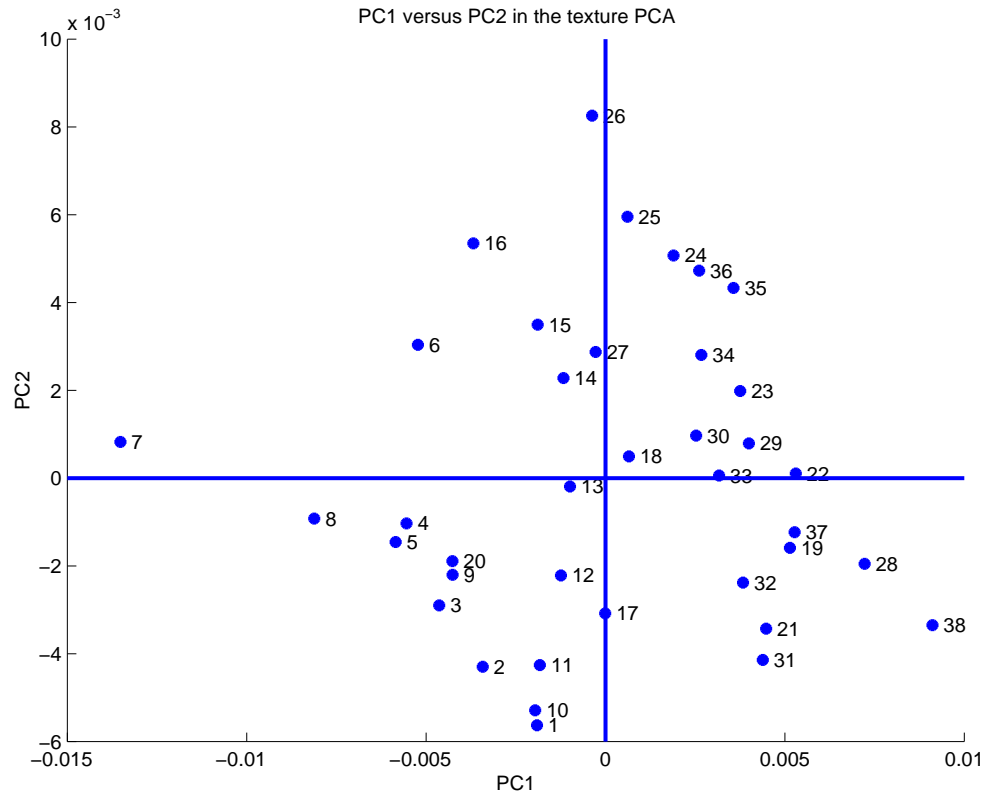


Figure 10: PC1 ($b_{g,1}$) versus PC2 ($b_{g,2}$) in the texture PCA.

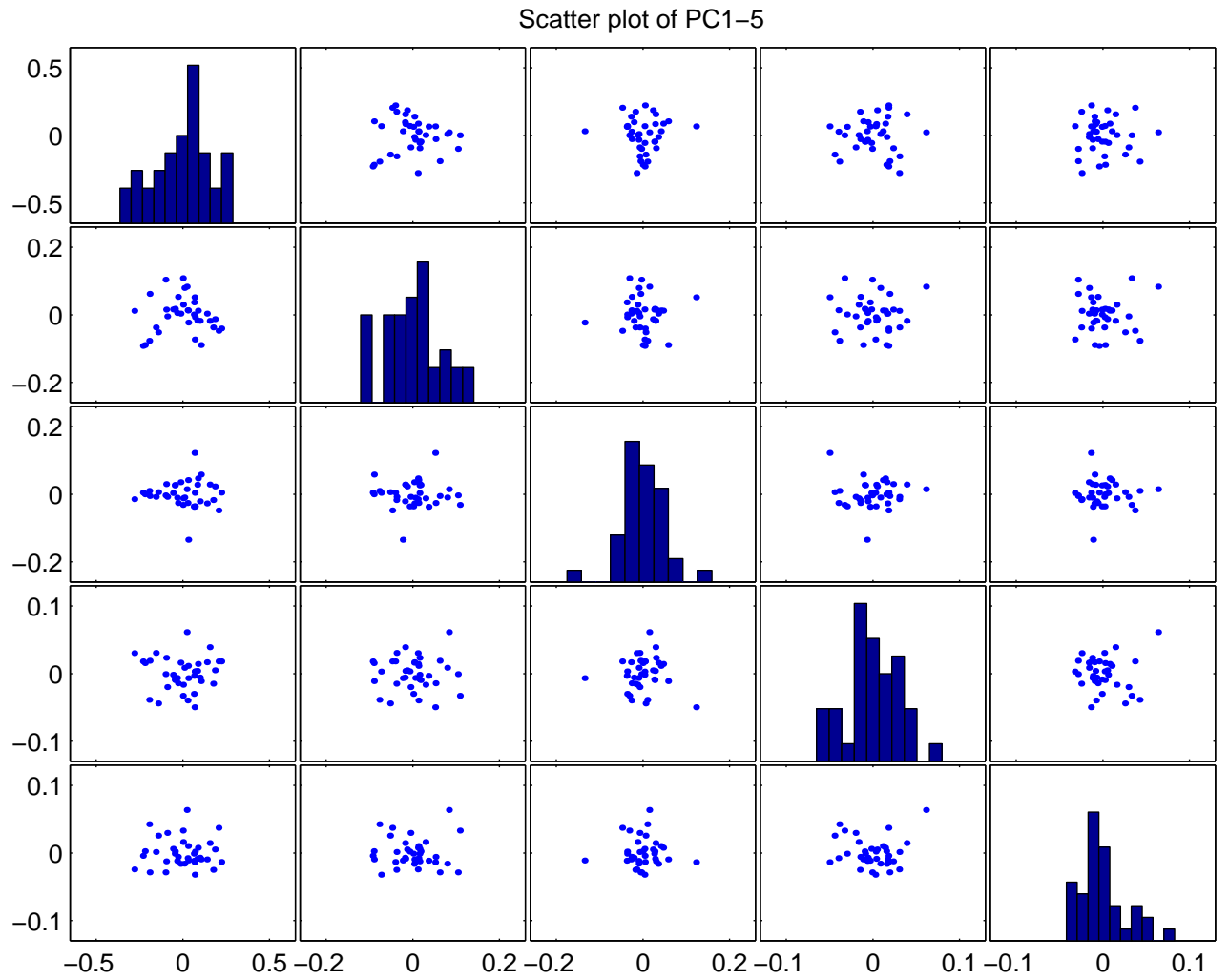


Figure 11: Scatter plot of PC1-5 (PC1 is top-left).



Figure 12: Texture variance, black corresponds to high variance.

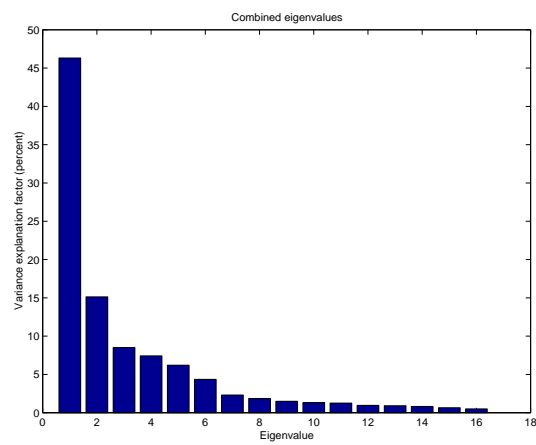


Figure 13: Combined eigenvalues.

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Active Appearance Model File

Written : Friday January 18 - 2002 [11:40]

Format version : 0.94

Shapes : 38

Shape points : 56

Texture samples : 3728

Model reduction : 5

Add Shape Extents : 0

Convex hull used : No

Tangent space used : Yes

Learning Method : 0

Variance Exp. Level: 95

Parameters used : 16

Mean shape area : 3723.72

Combined mode variation :

1	44.04%	(44.04%)
2	14.39%	(58.43%)
3	8.09%	(66.52%)
4	7.05%	(73.57%)
5	5.89%	(79.46%)
6	4.14%	(83.61%)
7	2.20%	(85.80%)
8	1.76%	(87.57%)
9	1.41%	(88.98%)
10	1.26%	(90.24%)
11	1.20%	(91.43%)
12	0.91%	(92.35%)
13	0.87%	(93.22%)
14	0.78%	(93.99%)
15	0.61%	(94.61%)
16	0.47%	(95.08%)

Shape mode variation :

1	72.34%	(72.34%)
2	11.70%	(84.04%)
3	6.99%	(91.04%)
4	2.60%	(93.63%)
5	1.99%	(95.62%)
6	1.43%	(97.05%)
7	0.71%	(97.76%)
8	0.49%	(98.25%)
9	0.40%	(98.65%)

10	0.23%	(98.88%)
11	0.21%	(99.09%)
12	0.13%	(99.22%)
13	0.12%	(99.34%)
14	0.10%	(99.44%)
15	0.06%	(99.50%)
16	0.06%	(99.56%)
17	0.05%	(99.61%)
18	0.05%	(99.66%)
19	0.04%	(99.70%)
20	0.04%	(99.74%)
21	0.03%	(99.77%)
22	0.03%	(99.80%)
23	0.03%	(99.83%)
24	0.02%	(99.85%)
25	0.02%	(99.87%)
26	0.02%	(99.89%)
27	0.02%	(99.90%)
28	0.02%	(99.92%)
29	0.01%	(99.93%)
30	0.01%	(99.95%)
31	0.01%	(99.96%)
32	0.01%	(99.97%)
33	0.01%	(99.98%)
34	0.01%	(99.98%)
35	0.01%	(99.99%)
36	0.01%	(99.99%)
37	0.01%	(100.00%)

Texture mode variation :

1	28.49%	(28.49%)
2	15.60%	(44.09%)
3	13.56%	(57.65%)
4	9.47%	(67.11%)
5	5.33%	(72.44%)
6	4.59%	(77.03%)
7	2.42%	(79.45%)
8	2.18%	(81.63%)
9	2.03%	(83.66%)
10	1.56%	(85.22%)
11	1.35%	(86.56%)
12	1.30%	(87.86%)
13	1.10%	(88.96%)
14	1.06%	(90.02%)
15	0.94%	(90.96%)
16	0.84%	(91.80%)
17	0.77%	(92.57%)
18	0.70%	(93.27%)
19	0.65%	(93.92%)
20	0.59%	(94.51%)
21	0.59%	(95.10%)
22	0.52%	(95.62%)
23	0.46%	(96.08%)
24	0.43%	(96.51%)
25	0.40%	(96.91%)
26	0.38%	(97.29%)
27	0.33%	(97.63%)
28	0.33%	(97.96%)
29	0.29%	(98.25%)
30	0.28%	(98.52%)

31	0.26%	(98.78%)
32	0.25%	(99.04%)
33	0.23%	(99.27%)
34	0.22%	(99.48%)
35	0.20%	(99.68%)
36	0.17%	(99.84%)
37	0.16%	(100.00%)

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