

Coursework Four Results by:

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The Mean vector of the HepatitisC data set:

1.164 3.916 0.448 5.679 4.865 3.778 4.127 3.604 0.217

The Covariance matrix of the HepatitisC data set:

5.880	0.245	-0.004	-0.284	-0.346	-0.417	-0.481	-0.267	-0.067
0.245	7.572	0.073	-0.358	-0.346	0.257	2.273	0.946	-0.032
-0.004	0.073	0.247	-0.116	-0.039	-0.003	0.100	0.066	-0.005
-0.284	-0.358	-0.116	16.960	7.969	4.443	-1.036	-0.306	0.047
-0.346	-0.346	-0.039	7.969	8.361	4.921	-0.763	-0.752	-0.001
-0.417	0.257	-0.003	4.443	4.921	6.683	-0.087	-0.376	-0.141
-0.481	2.273	0.100	-1.036	-0.763	-0.087	20.583	1.122	0.014
-0.267	0.946	0.066	-0.306	-0.752	-0.376	1.122	4.317	0.119
-0.067	-0.032	-0.005	0.047	-0.001	-0.141	0.014	0.119	0.170

The Eigenface images of the Principle Components:





The magnitudes of 'c.pgm' from given basis:

1206.254 -1590.133 -248.136 -821.249 246.009 -771.900 963.633 376.967 161.5

The Partial Reconstructions of image 'c.pgm':





The Eigenface images of the Principle Components:





The magnitudes of 'c.pgm' from given basis:

828.928 -941.699 1887.013 -410.837 -1537.080 -1110.709

The Partial Reconstructions of image 'c.pgm':

