

0.00087 -0.18 -0.0026

-0.057

-0.44

-0.28

-0.11

-0.0024 0.12

-0.4

-0.27

0.1

0.73

-0.14

-0.0023

-0.13

-0.38

-0.038

-0.2

-0.13

0.16 0.0046

0.019 -0.042

-0.068

-0.52

-0.7

0.074

-0.27

-0.43

PC1

ည

5

PC7

-0.63

-0.28

0.033

0.038

-0.55

the PCs.

In [ ]:

-0.46

-0.34

-0.22 -0.0038 0.57

-0.29 -0.058 -0.22 -0.13 0.024

0.076

-0.23

-0.39

-0.037

-0.16

-0.088

The plots for outliers show that the PCA is highly sensitive to outliers and by introducing a few extreme values can

The scaling/standardization also affects the Principal components as the variables are scaled wrt their individual

scaling/standardizing. Thus, we can say that any type of scaling or introduction of extreme data points will change

completely change the correlation between the features and hence the principal components also change.

mean and deviation from the mean. This is because the covariance matrix itself changes due to

-0.011 0.21

0.53

-0.45

-0.41 -0.056 -0.28

-0.41

-0.072

-0.12

-0.3

-0.15

-0.17 0.0062

-0.58

-0.11

-0.066

-0.32

-0.036

- 0.50

- 0.25

0.00

-0.50