

The data set (and description) can be downloaded here:

<http://stat.ethz.ch/Teaching/Datasets/cricket.dat>

Description:

TITLE : cricket
KEYWORDS (statist) : linear regression
APPLICATION AREA : biology

SHORT DESCRIPTION :
Influence of different factors on the
cholinesterase
cricket eggs (in % of the normal value).
Explanatory variables are:
- age of the eggs in days at the moment of
treatment;
- age of the eggs in days at the moment of
observations;
- insecticide (0 = carbaryl, 1 = propoxur);
- dose of treatment in microgramm per egg.

DIM.(VAR./OBS.) : 4 / 156

Descriptive statistics:

Dataset= cricket_CvSP : n= 156 , d= 4

Class1: n= 78

Covariance matrix:

	[,1]	[,2]	[,3]	[,4]
[1,]	1101.2721	0.9071	40.4695	-0.1377
[2,]	0.9071	2.4875	1.0190	0.0000
[3,]	40.4695	1.0190	2.4875	0.0000
[4,]	-0.1377	0.0000	0.0000	0.0270

Correlation matrix:

	[,1]	[,2]	[,3]	[,4]
[1,]	1.0000	0.0173	0.7732	-0.0252
[2,]	0.0173	1.0000	0.4096	0.0000
[3,]	0.7732	0.4096	1.0000	0.0000
[4,]	-0.0252	0.0000	0.0000	1.0000

Median: 93.3861 4.9466 7.6388 0.7801

Mean: 77.641 4.9231 7.0769 0.8

MCD-estimated:

MDC-0.975-Mean:	93.9138	5	7.6897	0.7897
MDC-0.750-Mean:	93.9138	5	7.6897	0.7897
MDC-0.500-Mean:	93.9138	5	7.6897	0.7897

Class2: n= 78

Covariance matrix:

	[,1]	[,2]	[,3]	[,4]
[1,]	856.9519	-2.1079	33.0819	-0.8026
[2,]	-2.1079	2.4875	1.0190	0.0000
[3,]	33.0819	1.0190	2.4875	0.0000
[4,]	-0.8026	0.0000	0.0000	0.0270

Correlation matrix:

	[,1]	[,2]	[,3]	[,4]
[1,]	1.0000	-0.0457	0.7165	-0.1668
[2,]	-0.0457	1.0000	0.4096	0.0000
[3,]	0.7165	0.4096	1.0000	0.0000
[4,]	-0.1668	0.0000	0.0000	1.0000

Median: 83.6784 4.915 6.9979 0.7924

Mean: 79.4487 4.9231 7.0769 0.8

MCD-estimated:

MDC-0.975-Mean: 78.1452 5.1774 7.0484 0.7935

MDC-0.750-Mean: 78.1452 5.1774 7.0484 0.7935

MDC-0.500-Mean: 79.4444 5.127 7.0952 0.7905

Measures:

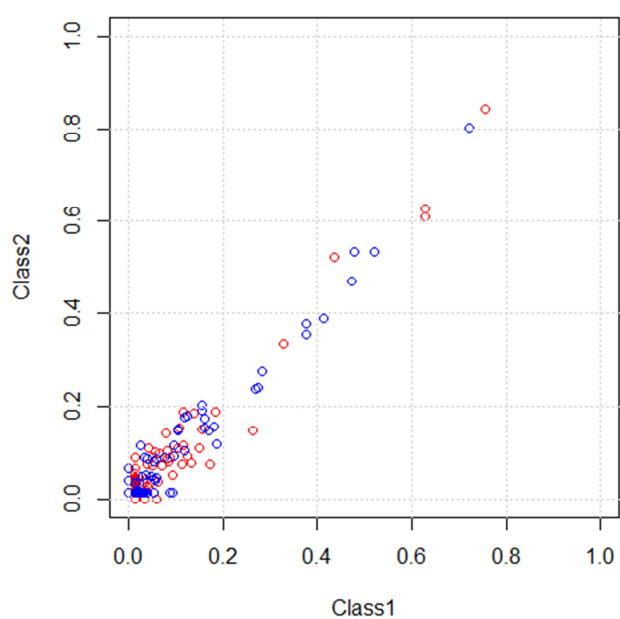
Mah.Dist: 0.1029

Mah.Dist-MCD-0.975: 0.5746

Mah.Dist-MCD-0.750: 0.5746

Mah.Dist-MCD-0.500: 0.5793

DD-Plot (zonoid): cricket_CvsP



DD-Plot (random Tukey): cricket_CvsP

