

```
>> corrccoef(XX).*( abs(corrccoef(XX))>.6)
```

```
ans =
```

```
Columns 1 through 8
```

```
 1.0000e+00      0      0      0      0      -7.3506e-01      0      0
      0  1.0000e+00 -7.5244e-01      0      0      0      -6.5276e-01 -7.7336e-01
      0 -7.5244e-01  1.0000e+00      0      0      0      0      0
      0      0      0  1.0000e+00 -7.8372e-01      0      0      0
      0      0      0 -7.8372e-01  1.0000e+00      0      0      0
-7.3506e-01      0      0      0      0      0  1.0000e+00  8.2433e-01      0
      0 -6.5276e-01      0      0      0      0  8.2433e-01  1.0000e+00  6.5784e-01
      0 -7.7336e-01      0      0      0      0      0  6.5784e-01  1.0000e+00
      0 -6.4062e-01      0      0      0      0      0  8.2510e-01  8.8432e-01
```

```
Column 9
```

```
 0
-6.4062e-01
 0
 0
 0
 0
 8.2510e-01
 8.8432e-01
 1.0000e+00
```

```
>> regre2new(Y,XX(:, :),0.05,0*XX(1, :));
```

```
Stima per beta
```

```
 1.7016e+03
-6.5331e-01
-1.9265e-01
-1.3762e-01
-1.3857e+00
-6.8995e-01
 1.7206e+01
-2.2170e+01
-4.4354e+00
 1.4532e+01
```

```
Norma quadro del residuo , ||r||^2: 1.193933e+02
```

```
Stima della varianza sigma^2 : 1.705619e+01
```

```
T2-intervalli di confidenza
```

i	beta_min	beta_max
1.0000e+00	-3.1906e+04	3.5309e+04
2.0000e+00	-1.7693e+01	1.6386e+01
3.0000e+00	-7.7861e+00	7.4007e+00
4.0000e+00	-1.5312e+01	1.5037e+01
5.0000e+00	-1.2072e+01	9.3011e+00
6.0000e+00	-1.8058e+01	1.6678e+01
7.0000e+00	6.3050e+00	2.8107e+01
8.0000e+00	-4.5598e+01	1.2570e+00
9.0000e+00	-2.4995e+01	1.6124e+01
1.0000e+01	7.2927e-01	2.8334e+01

```
Coeff. determinazione R^2: 9.970194e-01
```

```
Stima per nuova osservazione : 1.701582e+03
```

```
Intervallo di confidenza per nuova osservazione
```

```
-1.1477e+04  1.4880e+04
```

```
>> [Ynew,lambda]=pca(XX,1);
```

Eigs	Varianza cumul
4.0298e+00	4.4775e+01
2.3090e+00	7.0430e+01
1.8214e+00	9.0667e+01
7.6609e-01	9.9180e+01
3.7131e-02	9.9592e+01

```

2.2732e-02  9.9845e+01
1.0549e-02  9.9962e+01
2.9490e-03  9.9995e+01
4.7690e-04  1.0000e+02

```

Correlazione X (righe) and Y1...Y3 (colonne)

Columns 1 through 8

```

-4.6861e-02  -8.6513e-01  -4.2419e-01
 8.9851e-01  6.3679e-03  4.0268e-02
-5.8367e-01  -4.3074e-02  -6.3103e-01
 3.5079e-01  7.1529e-01  -5.8808e-01
-3.6937e-01  -1.5777e-01  9.0729e-01
-5.1099e-01  8.3866e-01  1.4205e-01
-8.6134e-01  4.2195e-01  4.3507e-02
-9.1252e-01  -3.6435e-01  -3.3144e-02
-8.8565e-01  -8.9110e-02  -2.2228e-01

```

Nuove var. Y

Columns 1 through 8

```

-1.5586e+00  2.0062e+00  -1.4440e-03
-1.8749e+00  2.1483e+00  -5.5659e-01
-1.1749e+00  1.7579e+00  5.2440e-01
-5.4156e-01  1.3942e+00  1.5785e+00
-9.4820e-01  1.3067e+00  1.3215e+00
 3.0919e-01  1.1876e+00  9.2071e-01
 1.1194e+00  7.8706e-02  1.0843e+00
 3.1137e+00  -1.0847e+00  1.9674e+00
 2.5181e+00  -1.4990e+00  1.3625e+00
 1.6458e+00  -7.1071e-01  -3.8198e-01
 3.1602e+00  8.9743e-01  -2.4927e+00
 3.4654e-01  -7.4071e-02  -2.1250e+00
 4.9435e-01  -9.4421e-02  -1.6739e+00
 7.4235e-01  -7.1192e-01  -1.2652e+00
-7.3801e-01  -1.7679e+00  -3.6879e-01
-2.1778e+00  -2.6146e+00  8.1106e-01
-4.4357e+00  -2.2199e+00  -7.0486e-01

```

```
>> regre2new(Y,Ynew(:,1:3),0.05,0*Ynew(1,1:3)');
```

Stima per beta

```

8.3318e+02
-1.1947e+01
 2.6024e+01
-7.3905e+00

```

Norma quadro del residuo , ||r||²: 4.243494e+03

Stima della varianza sigma² : 3.264226e+02

T2-intervalli di confidenza

i	beta_min	beta_max
1.0000e+00	8.1755e+02	8.4880e+02
2.0000e+00	-1.9970e+01	-3.9229e+00
3.0000e+00	1.5424e+01	3.6624e+01
4.0000e+00	-1.9325e+01	4.5443e+00

Coeff. determinazione R²: 8.940622e-01

Stima per nuova osservazione : 8.331765e+02

Intervallo di confidenza per nuova osservazione

```

7.9301e+02  8.7334e+02

```