==========================================================

Programa GENES Método dos Centróides

Arquivo de dados C:\BioFuzzy\Exemplos\prj0002\_FCM\_GXA\analise.txt

Número de variáveis 1

Número de genótipos 20

Número de ambientes 12

Número de repetições 3

Variável analisada 1

Data 06-24-2017

==========================================================

ANÁLISE DA VARIÁVEL - x1

Média dos Ambientes

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ambientes Média Ij Máximo Mínimo

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 1647. -742.0333 2260. 1087.

2 2578.4 189.3667 3110. 2176.

3 2519.7 130.6667 3230. 2111.

4 2004.35 -384.6833 2421. 1456.

5 3097.6 708.5667 3504. 2535.

6 2144.85 -244.1833 2705. 1364.

7 2767.6 378.5667 3307. 2203.

8 1606.75 -782.2833 2479. 639.

9 1436.4 -952.6333 2215. 530.

10 3664.7 1275.6667 4405. 3097.

11 2599.15 210.1167 3050. 2065.

12 2601.9 212.8667 3285. 2181.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Média dos Genótipos

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Genótipos Média Classif. Prob(I) Prob(II) Prob(III) Prob(IV)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 2421.3333 II .2248 .3375 .1909 .2468

2 2304.0833 IV .2238 .2282 .27 .2779

3 2516. I .2912 .2353 .2572 .2162

4 2295.25 III .2158 .2016 .3105 .2721

5 2554.9167 I .3187 .2087 .2771 .1956

6 2362.25 IV .238 .2618 .2381 .2621

7 2366.4167 III .2385 .1781 .3672 .2163

8 2384.25 III .2446 .234 .2675 .2538

9 2320.3333 III .2328 .2141 .2943 .2588

10 2195.5 IV .1921 .2011 .287 .3198

11 2344.9167 III .2377 .2153 .2932 .2539

12 2245.3333 IV .2056 .2138 .2794 .3012

13 2326.25 IV .2257 .23 .2684 .2758

14 2656.3333 I .3654 .2192 .2363 .179

15 2625.9167 I .3533 .2167 .2466 .1834

16 2333.8333 III .2278 .204 .3109 .2573

17 2281.8333 III .2259 .2259 .2741 .2741

18 2035.6667 IV .1507 .2148 .1908 .4437

19 2758.5833 I .4456 .2161 .1884 .1498

20 2451.6667 II .2525 .2968 .213 .2377

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Média geral 2389.0333

Classe I : Adaptabilidade geral alta (Maxf, Maxd)

Classe II : Adaptabilidade específica a ambientes favoráveis (Maxf,Mind)

Classe III : Adaptabilidade específica a ambientes desfavoráveis (Minf,Maxd)

Classe IV : Pouco adaptado (Minf,Mind)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MATRIZ DE CORRELAÇÃO ENTRE DADOS ORIGINAIS

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 0.4397 0.4033 0.7498 -0.1317 0.3551 0.0888 0.4365 0.8374 0.3274 0.3943 0.2447

0.4397 1. 0.7022 0.3518 0.4134 -0.0819 0.4294 -0.1518 0.1614 0.7935 0.8376 0.6128

0.4033 0.7022 1. 0.2929 0.4086 -0.1958 0.697 -0.0063 0.2682 0.7659 0.7673 0.7417

0.7498 0.3518 0.2929 1. 0.1018 0.3974 0.1392 0.4712 0.6687 0.2091 0.395 0.2039

-0.1317 0.4134 0.4086 0.1018 1. 0.089 0.4885 -0.0411 -0.2934 0.5212 0.4036 0.6805

0.3551 -0.0819 -0.1958 0.3974 0.089 1. -0.0057 0.6547 0.4189 0.0775 -0.1835 0.016

0.0888 0.4294 0.697 0.1392 0.4885 -0.0057 1. 0.2457 0.14 0.6389 0.6482 0.5792

0.4365 -0.1518 -0.0063 0.4712 -0.0411 0.6547 0.2457 1. 0.5217 -0.0092 0.1099 0.0615

0.8374 0.1614 0.2682 0.6687 -0.2934 0.4189 0.14 0.5217 1. 0.0947 0.2382 0.0441

0.3274 0.7935 0.7659 0.2091 0.5212 0.0775 0.6389 -0.0092 0.0947 1. 0.7049 0.7192

0.3943 0.8376 0.7673 0.395 0.4036 -0.1835 0.6482 0.1099 0.2382 0.7049 1. 0.6509

0.2447 0.6128 0.7417 0.2039 0.6805 0.016 0.5792 0.0615 0.0441 0.7192 0.6509 1.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ESTIMATIVAS DOS AUTOVALORES

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

RAIZ RAIZ (%) % ACUMULADA

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5.2207769 43.5064744 43.5064744

2.9986781 24.9889844 68.4954588

1.3392024 11.1600204 79.6554792

.7832667 6.5272227 86.1827019

.5011477 4.1762305 90.3589325

.3986357 3.3219644 93.6808969

.2980574 2.4838113 96.1647082

.1697762 1.4148015 97.5795097

.1149052 .9575434 98.5370531

.0879359 .7327995 99.2698526

.065248 .5437331 99.8135857

.0223697 .1864143 100.0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CONJUNTO DE AUTOVETORES ASSOCIADOS

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0.2471 0.3638 0.3832 0.23 0.2353 0.0451 0.3155 0.0958 0.1679 0.3741 0.3844 0.3532

0.4015 -0.1121 -0.1163 0.3772 -0.2504 0.3871 -0.1169 0.4163 0.468 -0.1385 -0.0842 -0.1601

-0.2795 -0.2437 -0.1577 -0.0762 0.4787 0.5154 0.2427 0.4046 -0.2163 0.0492 -0.1694 0.1911

-0.1563 -0.3273 0.2219 -0.2567 -0.3287 -0.2997 0.5941 0.3597 0.1723 -0.1187 0.1366 -0.1029

-0.0971 -0.1378 -0.0621 0.5707 0.3723 -0.4059 -0.0241 0.1184 -0.1 -0.5076 0.236 0.0272

0.198 -0.4123 0.3672 -0.0855 0.1225 -0.1143 -0.1336 -0.1886 0.2529 -0.1435 -0.4294 0.546

0.1286 0.0787 -0.1198 -0.3074 -0.2208 -0.126 -0.4306 0.4956 -0.2506 -0.0892 0.2985 0.4615

0.062 -0.2402 0.2978 0.4049 -0.23 -0.142 -0.0924 0.2055 -0.5301 0.4446 -0.2642 -0.1159

0.4757 -0.0263 0.0956 -0.3633 0.5208 -0.2531 -0.1141 0.2378 0.0035 0.0833 -0.0698 -0.4639

-0.3308 0.1859 0.71 -0.0677 0.0137 0.2931 -0.3062 0.1114 -0.0098 -0.3123 0.069 -0.2292

-0.3857 -0.3994 -0.0497 0.0231 0.1268 -0.0912 -0.3917 0.0146 0.4136 0.4726 0.3342 -0.0676

0.3487 -0.4907 0.0891 -0.0675 -0.043 0.3472 0.0481 -0.3433 -0.2956 -0.1125 0.5268 -0.0705

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ORDEM DAS VARIÁVEIS DE MAIOR PESO NOS ÚLTIMOS AUTOVETORES

Amb11 - Amb10 - Amb3 - Amb5 - Amb9 - Amb8 - Amb12 - Amb4 - Amb7 - Amb6 - Amb9 - Amb11 -

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

OBS.: A i-ésima linha corresponde ao autovetor associado ao i-ésimo autovalor.

CONJUNTO DE CARGAS TOTAIS ASSOCIADAS

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

.5646 .8313 .8757 .5256 .5377 .1031 .7209 .2188 .3837 .8548 .8783 .807

.6953 -.1942 -.2014 .6531 -.4337 .6702 -.2024 .7209 .8104 -.2399 -.1458 -.2772

-.3235 -.282 -.1825 -.0882 .554 .5964 .2809 .4683 -.2503 .0569 -.1961 .2211

-.1383 -.2897 .1964 -.2272 -.2909 -.2653 .5258 .3183 .1525 -.1051 .1209 -.0911

-.0687 -.0976 -.044 .404 .2636 -.2874 -.0171 .0838 -.0708 -.3593 .1671 .0193

.125 -.2603 .2318 -.054 .0773 -.0722 -.0844 -.1191 .1597 -.0906 -.2711 .3447

.0702 .0429 -.0654 -.1678 -.1205 -.0688 -.2351 .2705 -.1368 -.0487 .1629 .252

.0255 -.099 .1227 .1668 -.0948 -.0585 -.0381 .0847 -.2184 .1832 -.1089 -.0478

.1613 -.0089 .0324 -.1232 .1765 -.0858 -.0387 .0806 .0012 .0282 -.0237 -.1572

-.0981 .0551 .2106 -.0201 .0041 .0869 -.0908 .033 -.0029 -.0926 .0205 -.068

-.0985 -.102 -.0127 .0059 .0324 -.0233 -.1001 .0037 .1056 .1207 .0854 -.0173

.0522 -.0734 .0133 -.0101 -.0064 .0519 .0072 -.0514 -.0442 -.0168 .0788 -.0105

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

OBS.: A i-ésima linha corresponde ao vetor de carga associado ao i-ésimo autovalor.

ESCORES EM RELAÇÃO AOS COMPONENTES PRINCIPAIS

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

24.6834 -0.6905 4.5432 -3.5297 1.4471 -0.5734 -2.6344 -0.2535 0.4254 -0.9574 0.2009 0.9499

22.4671 0.6699 5.4954 -0.6338 1.4224 -0.3919 -3.0082 -0.395 -0.0034 -0.6825 0.3103 0.9534

24.6335 1.5912 3.5626 -2.3359 -0.4189 -0.4575 -3.0943 -0.36 0.5269 -0.2177 0.6601 0.9713

22.2467 1.6018 3.8667 -2.626 0.7707 -0.8831 -1.3733 -0.2821 0.1906 0.0553 0.4276 0.7651

24.4668 1.3533 6.4452 -1.3825 2.2101 0.069 -1.2867 0.0005 0.1547 -0.0429 0.4242 1.037

23.5549 0.2449 4.2415 -0.989 1.4223 -0.6627 -2.3256 0.4994 0.9357 -0.3212 0.4802 0.9252

21.8669 2.0855 6.9755 -0.8811 0.0796 -1.0628 -1.7495 -0.2597 -0.2656 -0.7881 0.522 0.9

23.1963 0.9197 5.8999 -1.9104 1.616 -0.3579 -2.9839 0.4448 -0.2304 -0.1456 0.3425 1.1269

21.7363 0.8609 8.0596 -1.9726 0.2309 -0.2956 -3.0126 0.2273 0.5405 -0.0143 -0.2355 0.9563

21.0725 1.0782 5.4053 -1.777 -0.0989 -0.8592 -2.7756 0.2108 0.1616 -0.0504 0.6068 1.2218

22.3343 1.1072 6.4742 -2.4788 -0.1242 -0.4593 -2.2769 0.4269 -0.2721 -0.4195 0.8009 0.7876

21.4101 0.809 6.6535 -3.1662 0.4691 -0.5042 -2.8851 -0.0522 0.2871 -0.3102 0.7267 0.9667

22.6416 0.8517 5.716 -2.1503 1.1344 -0.4475 -2.8375 0.3703 0.002 -1.0421 0.3832 0.8348

25.5838 1.4197 6.1825 -3.5701 1.2067 -1.1034 -2.2593 -0.6527 -0.1949 -0.2523 0.359 1.0187

25.4148 1.6546 5.0525 -0.981 1.1139 -2.221 -3.3739 0.1014 -0.1533 -0.0433 0.2509 0.6193

22.5242 1.7458 4.3054 -1.7224 -0.0986 -1.1019 -2.1815 -0.5134 -0.1657 -0.4128 -0.239 1.1719

21.7068 0.1008 7.211 -0.9547 0.2885 -1.0163 -2.1444 -0.8342 0.8801 -0.5184 0.4017 0.8097

20.2427 -0.9214 6.0058 -3.0379 1.0873 0.2551 -2.9759 -0.7031 -0.0406 -0.0276 0.2596 0.6803

27.0157 1.1314 5.1348 -1.9662 -0.5027 0.5859 -2.2066 0.272 0.0913 -0.5546 0.0989 0.8669

24.107 -0.5087 6.8769 -3.6241 0.494 -2.1105 -1.9259 0.5704 0.4367 -0.44 0.1777 0.9349

28.4356 2.3988 6.6526 -1.9912 0.3309 -0.1431 -2.4373 -0.061 0.2229 -0.2096 0.3094 0.7777

25.8187 -4.4001 5.616 -1.405 0.0635 -0.4266 -2.1516 0.0555 -0.1085 -0.1647 0.3181 0.8446

20.9841 5.4259 5.2467 -2.5948 0.7288 -0.2401 -2.2602 0.2948 0.2926 -0.3826 0.1013 0.7231

18.3671 -1.3731 4.2101 -2.0087 0.4615 -0.5236 -1.9745 0.4113 -0.0387 -0.3376 0.11 0.7901

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Escores gravados no arquivo : C:\BioFuzzy\Exemplos\prj0002\_FCM\_GXA\GENES$$$.ESC

UNIVERSIDADE FEDERAL DE VIÇOSA

**https://www.facebook.com/GenesNews/**