**RESULTADOS 1: HPO: 0 NORM: 0 Ss: 1 Us: 1 Ps: 1 CLASS: NN**

-----> SEA

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 78.81 137 2^-13 - - - - (aumentar v1! Max foi 64)

Gau 82.81 2 >=1 1 - - - (v1 max = 1! Refinar!)

Pol 78.99 2 8,16 - - 1 2,3 (nao guardei n prot!)

Cauc 82,69 2 1 2 - - - (v1 max = 1! Refinar!)

Sig 82,64 2 1 - 0.0039 0.0039 - (menor alpha -> menor Nprot)

(maior v1 -> menor Nprot)

-----> HYPERPLANE

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 89.06 2 >=4 - - - - -

Gau 89.06 2 >=1 1 - - - (v1 max = 1! Refinar!)

Pol 87.09 2 32,64 - - 1 2

Cauc 89.06 2 >=1 1 - - - (v1 max = 1! Refinar!)

Sig 89.06 2 <=2^-1 - 0.0078 0.0078 -

-----> RBF INTERCHANGING

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 72.47 290 0.125 - - - - -

Gau 76.95 226 0.0625 0.25 - - - -

Pol 77.40 321 0.5 - - 1 3 -

Cauc 75.81 283 0.0625 0.50 - - - -

Sig 82.01 170 2^-13 - 0.0039 0.0039 - -

-----> RIALTO

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 62.87 397 0.0625 - - - - -

Gau 68.88 486 1 0.0313 - - - -

Pol 67.33 620 0.0039 - - 1 2 -

Cauc 70.30 553 1 0.0078 - - - -

Sig 65.18 470 0.0039 - 0.25 1 - -

-----> WEATHER

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 70.07 159 0.0156 - - - - -

Gau 70.94 5 1 32 - - - -

Pol 64.74 5 0.5 - - - 3 -

Cauc 71.89 13 1 4 - - - -

Sig 68.62 4 0.002 - 4 1 - -

**RESULTADOS 2: HPO: 0 NORM: 3 Ss: 1 Us: 1 Ps: 1 CLASS: NN**

-----> SEA

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 82.65 2 128 - - - - -

Gau 82.65 2 2 2 - - - -

Pol 78.81 121 2^-13 - - 1 2 -

Cauc 82.65 2 2 2^-10 - - - -

Sig 82.60 2 0.5 - 2^-8 0.1 - -

-----> HYPERPLANE

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 75.21 728 2^-5 - - - - -

Gau 89.06 2 2 0.25 - - - -

Pol 87.10 2 32 2 - 1 2 -

Cauc 89.06 2 2 2^-10 - - - -

Sig 89.05 2 2^-6 - 2^-8 0.1 - -

-----> RBF INTERCHANGING

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 75.21 728 2^-5 - - - - -

Gau 52.51 15 2 2^-5 - - - -

Pol 75.15 801 0.125 - - 1 2 -

Cauc 57.10 15 2 2^-10 - - - -

Sig 55.70 54 2^-8 - 2^-8 0.1 - -

-----> RIALTO

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 29.57 10 0.5 - - - - -

Gau 58.61 288 0.0625 2 - - - -

Pol 58.17 301 0.5 - - 1 2 -

Cauc 55.59 284 0.5 0.5 - - - -

Sig 50.76 225 0.125 - 0.5 0.1 - -

-----> WEATHER

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 69.82 145 16 - - - - -

Gau 69.85 2 2 2 - - - -

Pol 53.66 43 2^-13 2 - 1 2 -

Cauc 72.08 18 1 4 - - - -

Sig 68.92 2 0.0039 - 0.0039 0.1 - -

**RESULTADOS 3: HPO: 1 NORM: 1 Ss: 1 Us: 1 Ps: 2 CLASS: NN**

- Com HPO, com Normalização! Não permite "não adição de protótipos".

- Verificar: Cover Type / Poker / Rialto /

-----> CHESS

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 85.84 14.16 600 0,03125 2 1 1 2

Gau 92.84 07.16 128 0,50 0,50 1 1 2

Pol 89.52 10.48 600 0,25 2 1 1 2

Cauc 90.78 09.22 128 0,125 1 1 1 2

Sig 65.18 34.82 600 0,0039 2 0,03125 0,10 2

-----> COVER TYPE

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 36.44 63.56 7 0,00097 2 1 1 2

Gau 36.44 63.56 7 0,0625 0,00097 1 1 2

Pol 36.44 63.56 7 0,00012 2 1 1 2

Cauc 36.44 63.56 7 0,0625 0,00097 1 1 2

Sig 36.44 63.56 7 0,00012 2 0,0039 0,10 2

-----> ELECTRICITY

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin

Gau

Pol

Cauc

Sig

-----> HYPERPLANE

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 74.04 25.96 600 0,8 2 1 1 2 Refazer!

Gau 83.32 16.68 3 0,0625 32 1 1 2

Pol 74.04 25.96 600 64 2 1 1 2

Cauc 83.32 16.68 3 1 1 1 1 2

Sig 82.28 17.72 4 1 2 0,25 0,1 2

-----> MIXED DRIFT

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin

Gau

Pol

Cauc

Sig

-----> OUTDOOR

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 57.59 42.41 79 16 2 1 1 2

Gau 63.25 36.75 140 0,0625 16 1 1 2

Pol 62.75 37.25 417 64 2 1 1 2

Cauc 63.96 36.04 215 0,50 4 1 1 2

Sig 60.40 39.60 124 0,0625 2 0,0156 0,10 2

-----> POKER

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 36.39 63.61 10 0,00097 2 1 1 2

Gau 36.39 63.61 10 0,0625 0,00097 1 1 2

Pol 36.39 63.61 10 0,00012 2 1 1 2

Cauc 36.39 63.61 10 0,0625 0,00097 1 1 2

Sig 36.39 63.61 10 0,00012 2 0,0039 0,10 2

-----> RBF INTERCHANGING

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 93.12 06.88 15 0,8 2 1 1 2

Gau 95.06 04.94 17 0,25 1 1 1 2

Pol 80.23 19.77 598 0,50 2 1 1 2

Cauc 95.06 04.94 18 1 0,0625 1 1 2

Sig 95.06 04.94 16 0,0039 2 0,0156 0,10 2

-----> RBF MOVING

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 40.98 59.02 599 32 2 1 1 2

Gau 46.86 53.14 283 0,0625 16 1 1 2

Pol 40.51 59.49 600 64 2 1 1 2

Cauc 45.90 54.10 449 0,0625 16 1 1 2

Sig 40.26 59.74 600 0,0078 2 0,0078 0,10 2

-----> RIALTO

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 10.00 90.00 10 0,00097 2 1 1 2

Gau 10.00 90.00 10 0,0625 0,00097 1 1 2

Pol 10.00 90.00 10 0,00012 2 1 1 2

Cauc 10.00 90.00 10 0,0625 0,00097 1 1 2

Sig 10.00 90.00 10 0,00012 2 0,0039 0,10 2

-----> SEA

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 68.12 31.88 600 4 2 1 1 2

Gau 78.87 21.13 4 1 2 1 1 2

Pol 72.56 27.44 600 64 2 1 1 2

Cauc 78.87 21.13 4 0,125 16 1 1 2

Sig 77.25 22.75 4 1 2 1 0,1 2

-----> SQUARES MOVING

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 39.47 68.53 600 0,50 2 1 1 2

Gau 48.64 52.36 86 0,50 1 1 1 2

Pol 37.76 62.24 600 32 2 1 1 2

Cauc 48.66 51.34 72 1 0,125 1 1 2

-----> WEATHER

Lin 70.37 29.63 600 32 2 1 1 2

Gau 72.19 27.81 8 0,0625 32 1 1 2

Pol 69.13 40.87 600 64 2 1 1 2,2

Cauc 73.00 27.00 6 0,25 16 1 1 2

Sig 73.32 26.68 4 0,50 2 0,0156 0,10 2

**RESULTADOS 4: HPO: 1 NORM: 0 Ss: 1 Us: 1 Ps: 2 CLASS: NN**

-----> CHESS

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 89.01 10.99 600 0,0078 2 1 1 2

Gau 92.62 07.38 72 0,25 0,25 1 1 2

Pol 88.80 11.20 600 0,03125 2 1 1 2,6

Cauc 85.77 14.23 109 1 0,0156 1 1 2

Sig

-----> COVER TYPE

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin Gau Pol Cauc Sig

-----> ELECTRICITY

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin

Gau

Pol

Cauc

Sig

-----> HYPERPLANE

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 84.30 15.70 4 2 2 1 1 2

Gau 83.13 16.87 3 0,25 4 1 1 2

Pol 85.44 14.56 3 32 2 1 1 2,2

Cauc 82.39 17.61 4 0,0625 8 1 1 2

Sig 80.95 19.05 6 0,0156 2 0,0078 0,10 2

-----> MIXED DRIFT

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin Gau Pol Cauc Sig

-----> OUTDOOR

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 63.13 36.87 85 0,03125 2 1 1 2

Gau 64.31 35.69 91 0,0625 1 1 1 2

Pol 64.12 35.88 88 0,125 2 1 1 2,6

Cauc 65.62 34.38 110 1 0,03125 1 1 2

Sig 65.12 34.88 89 0,00398 2 0,0625 0,1 2

-----> POKER

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin Gau Pol Cauc Sig

-----> RBF INTERCHANGING

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 95.34 04.66 15 0,0156 2 1 1 2

Gau 95.30 04.70 17 1 0,0625 1 1 2

Pol 80.06 19.94 589 0,03125 2 1 1 2

Cauc 95.14 04.86 21 0,25 0,25 1 1 2

Sig 95.20 04.80 17 0,0039 2 0,25 0,10 2

-----> RBF MOVING

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 39.42 60.57 600 8 2 1 1 2

Gau 46.30 53.67 567 0,0625 4 1 1 2

Pol 41.20 58.79 600 64 2 1 1 2

Cauc 46.32 53.67 481 0,125 4 1 1 2

Sig 38.95 61.04 580 0,0039 2 0,03125 0,10 2

-----> RIALTO

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 33.58 66.42 599 0,125 2 1 1 2

Gau 32.25 67.75 73 0,0625 2 1 1 2

Pol 39.85 60.15 600 0,50 2 1 1 2,2

Cauc 33.09 66.91 73 0,0625 2 1 1 2

Sig 32.77 67.23 78 0,0156 2 0,125 0,10 2

-----> SEA

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 77.50 22.50 594 64 2 1 1 2

Gau 78.24 21.76 4 0,50 16 1 1 2

Pol 79.30 20.70 600 4 2 1 1 2,8

Cauc 76.44 23.56 2 0,25 32 1 1 2

Sig 72.25 27.75 600 0,0078 2 0,0039 0,10 2

-----> SQUARES MOVING

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 42.12 57.88 600 0,0039 2 1 1 2

Gau 76.27 23.73 17 0,25 0,125 1 1 2

Pol 40.63 59.37 600 0,0078 2 1 1 2,2

Cauc 76.73 23.27 20 0,25 0,125 1 1 2

Sig 46.78 53.22 7 0,0039 2 1 0,10 2

-----> WEATHER

Kernel Acc Err Nprot V1 Sigma Alpha Theta Gamma Obs

Lin 74.43 25.56 600 1024 2 1 1 2

Gau 71.34 28.66 22 0,0625 128 1 1 2

Pol 72.88 27.12 45 0,0078 2 1 1 2,2

Cauc 64.32 35.68 5 0,25 256 1 1 2

Sig 68.69 31.31 4 0,00195 2 0,0039 0,10 2

----->

**RESULTADOS 5: Lambda = 2; Kernel = Gaussian**

- Cerv Cancer:

v1: 0.25 sigma: 16 Nk: 4 Acc\_mean: 0.88 Acc\_max: 0.93

- Iris:

v1: 0.5 sigma: 2 Nk: 11 Acc\_mean: 0.90 Acc\_max: 0.95

- Motor:

v1: 1 sigma: 0.5 Nk: 70 Acc\_mean: 0.78 Acc\_max: 0.87

- Vert Column:

v1: 2 sigma: 2 Nk: 2 Acc\_mean: 0.72 Acc\_max: 0.86