

# Método de la Distancia Promedio ponderada

|   | A    | B    | C           | D    | E    | F    | G |
|---|------|------|-------------|------|------|------|---|
| A | 0    |      |             |      |      |      |   |
| B | 2.15 | 0    |             |      |      |      |   |
| C | 0.7  | 1.53 | 0           |      |      |      |   |
| D | 1.07 | 1.14 | 0.43        | 0    |      |      |   |
| E | 0.85 | 1.38 | <b>0.21</b> | 0.29 | 0    |      |   |
| F | 1.16 | 1.01 | 0.55        | 0.22 | 0.41 | 0    |   |
| G | 1.56 | 2.83 | 1.86        | 2.04 | 2.02 | 2.05 | 0 |

## 1. Nivel K=1

$\text{Min} \{d(C_i, C_j)\} = d(C, E) = 0.21$ . Cluster  $(C, E)$ .

## 2. Nivel K=2

|       | A     | B     | (C,E) | D           | F    | G |
|-------|-------|-------|-------|-------------|------|---|
| A     | 0     |       |       |             |      |   |
| B     | 2.15  | 0     |       |             |      |   |
| (C,E) | 0.775 | 1.455 | 0     |             |      |   |
| D     | 1.07  | 1.14  | 0.36  | 0           |      |   |
| F     | 1.16  | 1.01  | 0.48  | <b>0.22</b> | 0    |   |
| G     | 1.56  | 2.83  | 1.94  | 2.04        | 2.05 | 0 |

$\text{Min} \{d(C_i, C_j)\} = d(D, F) = 0.22$ . Cluster  $(D, F)$ .

## 3. Nivel K=3

|       | A     | B     | (C,E)       | (D,F) | G |
|-------|-------|-------|-------------|-------|---|
| A     | 0     |       |             |       |   |
| B     | 2.15  | 0     |             |       |   |
| (C,E) | 0.775 | 1.455 | 0           |       |   |
| (D,F) | 1.115 | 1.075 | <b>0.42</b> | 0     |   |
| G     | 1.56  | 2.83  | 1.94        | 2.045 | 0 |

$\text{Min} \{d(C_i, C_j)\} = d \{(C, E), (D, F)\} = 0.42$ . Cluster  $((C, E), (D, F))$ .

4. Nivel K=4

|               | A            | B     | ((C,E),(D,F)) | G |
|---------------|--------------|-------|---------------|---|
| A             | 0            |       |               |   |
| B             | 2.15         | 0     |               |   |
| ((C,E),(D,F)) | <b>0.945</b> | 1.265 | 0             |   |
| G             | 1.56         | 2.83  | 1.9925        | 0 |

$\text{Min} \{d(C_i, C_j)\} = d \{A, ((C, E), (D, F))\} = 0.945$ . Cluster  $(A, ((C, E), (D, F)))$ .

5. Nivel K=5

|                   | (A,((C,E),(D,F))) | B    | G |
|-------------------|-------------------|------|---|
| (A,((C,E),(D,F))) | 0                 |      |   |
| B                 | <b>1.442</b>      | 0    |   |
| G                 | 1.906             | 2.83 | 0 |

$\text{Min} \{d(C_i, C_j)\} = d \{B, (A, ((C, E), (D, F)))\} = 1.442$ . Cluster  $(B, (A, ((C, E), (D, F))))$ .

6. Nivel K=6

|                       | (B,(A,((C,E),(D,F)))) | G |
|-----------------------|-----------------------|---|
| (B,(A,((C,E),(D,F)))) | 0                     |   |
| G                     | <b>2.06</b>           | 0 |

Dendrograma

