



The first table:

	1	2	3	4	5	6	7	8	9
1	1	0.7	0.5	0.3	0.3	0.5	0.5	0.3	0.3
2	0.7	1	0.7	0.5	0.5	0.3	0.3	0.3	0.3
3	0.5	0.7	1	0.7	0.5	0.5	0.3	0.3	0.3
4	0.3	0.5	0.7	1	0.9	0.9	0	0.7	0
5	0.3	0.5	0.5	0.9	1	0.8	0	0.8	0
6	0.5	0.3	0.5	0.9	0.8	1	0	0.9	0.2
7	0.5	0.3	0.3	0	0	0	1	0	0
8	0.3	0.3	0.3	0.7	0.8	0.9	0	1	0.3
9	0.3	0.3	0.3	0	0	0.2	0	0.3	1

5 table

	1	2	3	4	5	6	7	8	9
1	1	0.7	0.5	0.45	0.4	0.5	0.5	0.45	0.3
2	0.7	1	0.7	0.5	0.5	0.45	0.35	0.4	0.3
3	0.5	0.7	1	0.7	0.63	0.63	0.3	0.49	0.3
4	0.45	0.5	0.7	1	0.9	0.9	0.21	0.81	0.21
5	0.4	0.5	0.63	0.9	1	0.81	0.15	0.8	0.24
6	0.5	0.45	0.63	0.9	0.81	1	0.25	0.9	0.27
7	0.5	0.35	0.3	0.21	0.15	0.25	1	0.15	0.15
8	0.45	0.4	0.49	0.81	0.8	0.9	0.15	1	0.3
9	0.3	0.3	0.3	0.21	0.24	0.27	0.15	0.3	1

The last table :

	1	2	3	4	5	6	7	8	9
1	1	0.7	0.5	0.45	0.4	0.5	0.5	0.45	0.3
2	0.7	1	0.7	0.5	0.5	0.45	0.35	0.4	0.3
3	0.5	0.7	1	0.7	0.63	0.63	0.3	0.49	0.3
4	0.45	0.5	0.7	1	0.9	0.9	0.21	0.81	0.21
5	0.4	0.5	0.63	0.9	1	0.81	0.15	0.8	0.24
6	0.5	0.45	0.63	0.9	0.81	1	0.25	0.9	0.27
7	0.5	0.35	0.3	0.21	0.15	0.25	1	0.15	0.15
8	0.45	0.4	0.49	0.81	0.8	0.9	0.15	1	0.3
9	0.3	0.3	0.3	0.21	0.24	0.27	0.15	0.3	1

The alfa was 0.55

	1	2	3	4	5	6	7	8	9
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0.9	0.9	0	0.81	0
5	0	0	0	0.9	0	0.81	0	0.8	0
6	0	0	0	0.9	0.81	0	0	0.9	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0.81	0.8	0.9	0	0	0
9	0	0	0	0	0	0	0	0	0

First set = {1,2,3,4,5,6,7,8,9}, C{};

Max : 0.9

Cluster :

	1	2	3	4	5	6	7	8	9
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0.9	0.9	0	0.81	0
5	0	0	0	0.9	0	0.81	0	0.8	0
6	0	0	0	0.9	0.81	0	0	0.9	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0.81	0.8	0.9	0	0	0
9	0	0	0	0	0	0	0	0	0

Clusters :

C1={4,6}

C2={5,8};

C3={7,9};

C4={1,2};

C5={3};

we have a couple of other formulae:

(ii) *max-prod*

$$\mu_R(x, y) = \max_{z \in X} \{ \mu_R(x, z) \mu_R(z, y) \}$$

(iii) *max-avg*

$$\mu_R(x, y) = \max_{z \in X} \{ (\mu_R(x, z) + \mu_R(z, y)) / 2 \}$$

(iv) *max-Δ*

$$\mu_R(x, y) = \max_{z \in X} \{ \max \{ 0, \mu_R(x, z) + \mu_R(z, y) - 1 \} \}$$