

## ***CLUSTER ANALYSIS***

# CLUSTER ANALYSIS PERFORMED BY PROGRAM NCLAS

## RESEMBLANCE MEASURES FOR QUANTITATIVE DATA: SIMILARITY RATIO

### INPUT OPTIONS

N (NUMBER OF VARIABLES) = 161  
M (NUMBER OF OBJECTS) = 21  
MULT (OPTION FOR TREATING TIES) = 2  
MSO (SORTING STRATEGY) = 3  
MCOE (DISSIMILARITY COEFFICIENT) = 24  
IMODE (OPTION TO SAVE SEQUENCE) = 0  
ISN (DATA STANDARDIZATION) = 0  
MSTD (SAVE DISTANCES) = 0  
IU (DISSIMILARITY OR DISTANCE) = 1  
C (CONSTANT FOR TRANSFORMATION) = .00  
BET (BETA IN FLEXIBLE SORTING) = .00  
GAM (GAMMA IN FLEXIBLE SORTING) = .00  
LAB (LABELS FOR OBJECTS ) = 0

### INPUT FORMAT

(\*)

DENDROGRAM MERGE MATRICES IN FILE A:\DENAVESIM

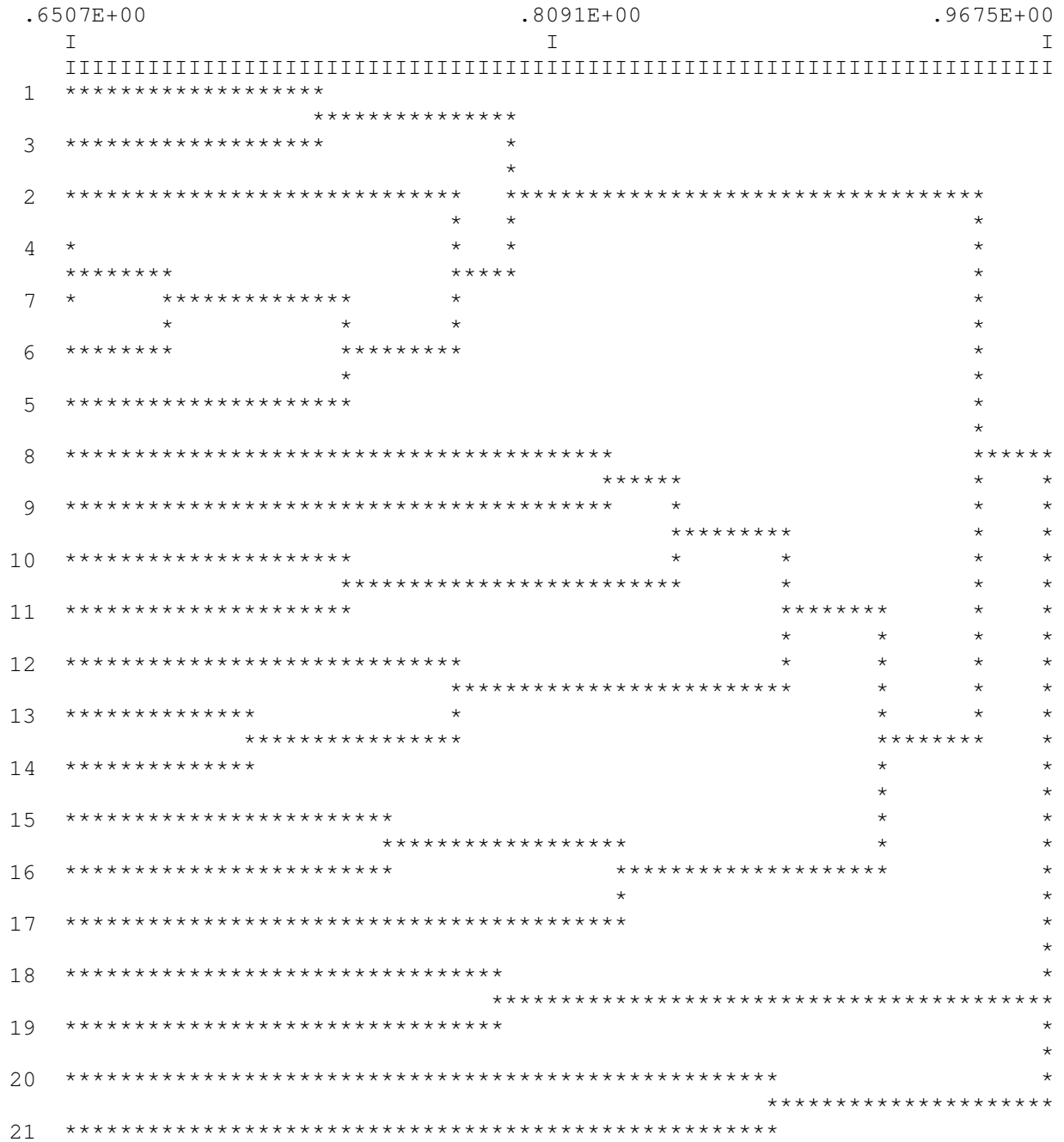
TYPED OUTPUT SAVED IN FILE A:\LISAVESIM

INPUT DATA READ FROM FILE A:\MATRICE.TXT

### CLUSTERING RESULTS

FUSION	GROUPS	AMALGAMATED	SIZE OF GROUPS	DISSIMILARITY
1	4 AND	7	1 AND 1	.650732500E+00
2	4 AND	6	2 AND 1	.682394500E+00
3	13 AND	14	1 AND 1	.711159000E+00
4	1 AND	3	1 AND 1	.730739800E+00
5	10 AND	11	1 AND 1	.741929100E+00
6	4 AND	5	3 AND 1	.742767200E+00
7	15 AND	16	1 AND 1	.755263200E+00
8	2 AND	4	1 AND 4	.775269900E+00
9	12 AND	13	1 AND 2	.775548600E+00
10	18 AND	19	1 AND 1	.790313500E+00
11	1 AND	2	2 AND 5	.794183300E+00
12	8 AND	9	1 AND 1	.823912700E+00
13	15 AND	17	2 AND 1	.826866100E+00
14	8 AND	10	2 AND 2	.844406300E+00
15	20 AND	21	1 AND 1	.877304400E+00
16	8 AND	12	4 AND 3	.882251300E+00
17	8 AND	15	7 AND 3	.914092700E+00
18	1 AND	8	7 AND 10	.942044300E+00
19	1 AND	18	17 AND 2	.963974300E+00
20	1 AND	20	19 AND 2	.967477100E+00

# DENDROGRAM OF OBJECTS



# CLUSTER ANALYSIS PERFORMED BY PROGRAM NCLAS

## RESEMBLANCE MEASURES FOR BINARY DATA: JACCARD INDEX

### INPUT OPTIONS

N (NUMBER OF VARIABLES) = 161  
 M (NUMBER OF OBJECTS) = 21  
 MULT (OPTION FOR TREATING TIES) = 0  
 MSO (SORTING STRATEGY) = 3  
 MCOE (DISSIMILARITY COEFFICIENT) = 4  
 IMODE (OPTION TO SAVE SEQUENCE) = 0  
 ISN (DATA STANDARDIZATION) = 0  
 MSTD (SAVE DISTANCES) = 0  
 IU (DISSIMILARITY OR DISTANCE) = 0  
 C (CONSTANT FOR TRANSFORMATION) = .00  
 BET (BETA IN FLEXIBLE SORTING) = .00  
 GAM (GAMMA IN FLEXIBLE SORTING) = .00  
 LAB (LABELS FOR OBJECTS ) = 0  
 INPUT FORMAT  
 (\*)

DENDROGRAM MERGE MATRICES IN FILE A:\DENAWEJA

TYPED OUTPUT SAVED IN FILE A:\LISAVEJA

INPUT DATA READ FROM FILE A:\MATRICE.TXT

### CLUSTERING RESULTS

FUSION	GROUPS AMALGAMATED	SIZE OF GROUPS	DISSIMILARITY
(CYCLE 1)			
1	4 AND 7	1 AND 1	.428571400E+00
2	8 AND 10	1 AND 1	.608695600E+00
3	9 AND 12	1 AND 1	.688888900E+00
4	15 AND 16	1 AND 1	.700000000E+00
(CYCLE 2)			
5	4 AND 6	2 AND 1	.531914900E+00
6	13 AND 14	1 AND 1	.696969700E+00
7	18 AND 19	1 AND 1	.714285700E+00
(CYCLE 3)			
8	1 AND 2	1 AND 1	.565217400E+00
9	8 AND 11	2 AND 1	.765723200E+00
10	13 AND 17	2 AND 1	.751918200E+00

			(CYCLE	4)	
11	1 AND	4		2 AND 3	.603626100E+00
12	9 AND	13		2 AND 3	.780468600E+00
			(CYCLE	5)	
13	1 AND	5		5 AND 1	.650337500E+00
14	8 AND	18		3 AND 2	.799508800E+00
15	9 AND	15		5 AND 2	.793216500E+00
			(CYCLE	6)	
16	1 AND	3		6 AND 1	.711104900E+00
17	8 AND	9		5 AND 7	.867781700E+00
			(CYCLE	7)	
18	1 AND	20		7 AND 1	.893461200E+00
			(CYCLE	8)	
19	1 AND	8		8 AND 12	.909947000E+00
			(CYCLE	9)	
20	1 AND	21		20 AND 1	.934594000E+00

# DENDROGRAM OF OBJECTS

