SAS Output Strona 1 z 8

Multseed macro for finding multiple cluster solutions with different starting seeds

The UNIVARIATE Procedure Variable: OVER_ALL (Statistic Applying Over All Variables)

Moments						
N	100	Sum Weights	100			
Mean	0.89241833	Sum Observations	89.2418335			
Std Deviation	0.04622916	Variance	0.00213714			
Skewness	0.60590473	Kurtosis	-1.3468191			
Uncorrected SS	79.8526248	Corrected SS	0.2115764			
Coeff Variation	5.18021196	Std Error Mean	0.00462292			

Basic Statistical Measures					
Location Variability					
Mean	0.892418	Std Deviation	0.04623		
Median	0.866572	Variance	0.00214		
Mode 0.854992		Range	0.15112		
		Interquartile Range	0.08727		

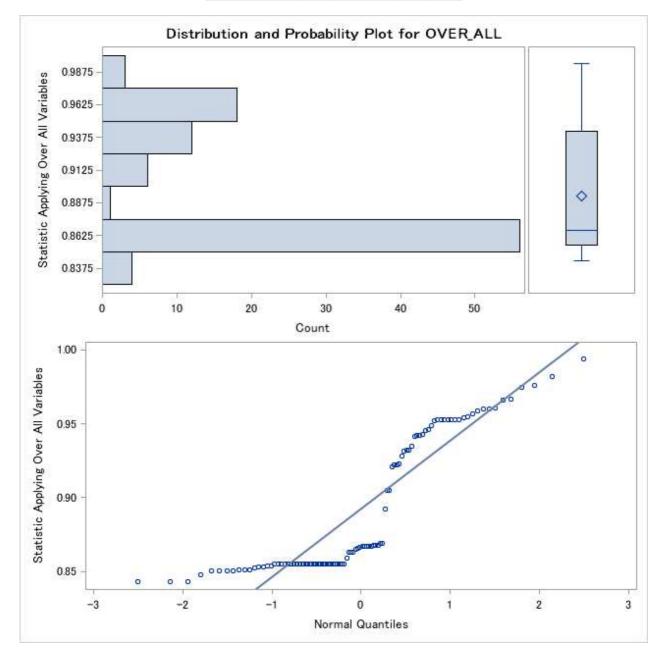
Tests for Location: Mu0=0					
Test	Statistic p Value				
Student's t	t	193.0423	Pr > t	<.0001	
Sign	M 50		Pr >= M	<.0001	
Signed Rank	S	2525	Pr >= S	<.0001	

Quantiles (Definition 5)				
Level	Quantile			
100% Max	0.994026			
99%	0.988074			
95%	0.966498			
90%	0.957895			
75% Q3	0.942261			
50% Median	0.866572			
25% Q1	0.854992			
10%	0.851047			
5%	0.850464			
1%	0.842902			
0% Min	0.842902			

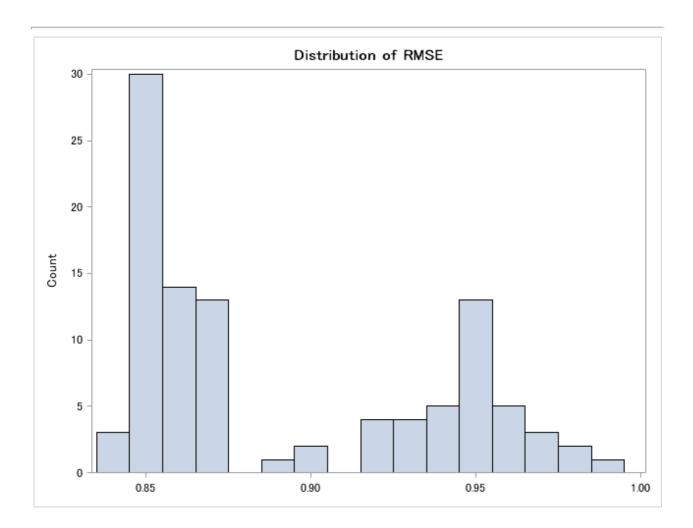
Extreme	Observations

SAS Output Strona 2 z 8

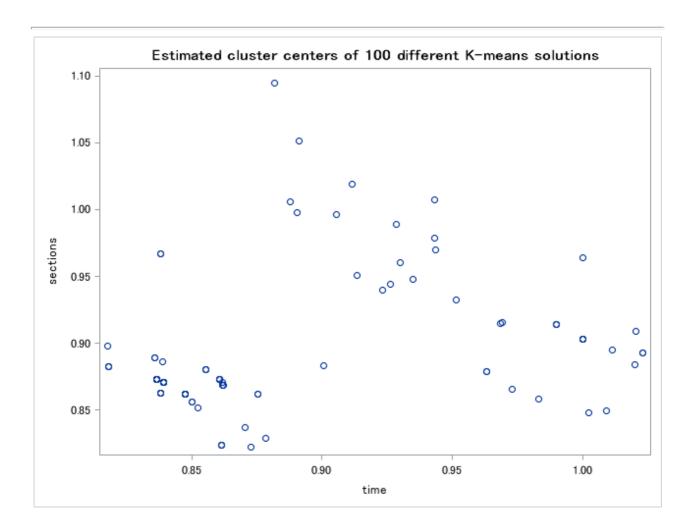
Lowest			Highest		
Value	seed	Obs	Value	seed	Obs
0.842902	53	48	0.966878	41	60
0.842902	62	39	0.974660	81	20
0.842902	77	24	0.975765	51	50
0.847661	55	46	0.982123	95	6
0.850464	26	75	0.994026	46	55



SAS Output Strona 3 z 8



SAS Output Strona 4 z 8



SAS Output Strona 5 z 8

Best solution out of 100 seeds

The SURVEYSELECT Procedure

Selection Method | Simple Random Sampling

NP
53
5
0.09434
10.6
SEEDS

SAS Output Strona 6 z 8

Best solution out of 100 seeds

The FASTCLUS Procedure Replace=FULL Drift Radius=0 Maxclusters=5 Maxiter=10 Converge=0 Least=2

Initial Seeds					
Cluster	time	sections			
1	0.000000000	0.000000000			
2	1.000000000	0.000000000			
3	1.000000000	3.000000000			
4	6.000000000	4.000000000			
5	7.000000000	3.000000000			

Minimum Distance Between Initial Seeds = 2.893742

Iteration History							
		Rela	tive Cha	nge in Cl	uster Se	eds	
Iteration	Criterion	1	2	3	4	5	
1	0.9154	0.3297	0.3281	0.5919	0.1061	0.0666	
2	0.8562	0.00950	0.1266	0.2789	0.1387	0	
3	0.8450	0	0	0.0787	0.0904	0	
4	0.8433	0	0	0.0808	0.0912	0	
5	0.8422	0	0	0	0	0	

Convergence criterion is satisfied.

Criterion Based on Final Seeds = 0.8422

Cluster Summary						
Cluster	Frequency	RMS Std Deviation	Maximum Distance from Seed to Observation	Radius Exceeded	Nearest Cluster	Distance Between Cluster Centroids
1	509	0.4478	1.7390		2	2.7843
2	725	0.8692	2.1947		1	2.7843
3	670	1.0265	2.2464		2	3.2549
4	607	0.8084	1.6397		5	3.2584
5	428	0.8855	1.9979		4	3.2584

Statistics for Variables					
Variable Total STD Within STD R-Square RSQ/(1-RSQ)					
time	2.36950	0.86156	0.867971	6.574116	
sections	2.25379	0.82382	0.866572	6.494669	

SAS Output Strona 7 z 8



WARNING: The two values above are invalid for correlated variables.

Cluster Means						
Cluster	time	sections				
1	0.278978389	0.249508841				
2	2.360000000	2.099310345				
3	2.473134328	5.352238806				
4	6.238879736	5.925864909				
5	6.095794393	2.670560748				

Cluster Standard Deviations		
Cluster	time	sections
1	0.461905222	0.433154464
2	1.018502855	0.688149146
3	1.039587432	1.013268949
4	0.762532733	0.851773457
5	0.754490740	0.999471834

SAS Output Strona 8 z 8

