

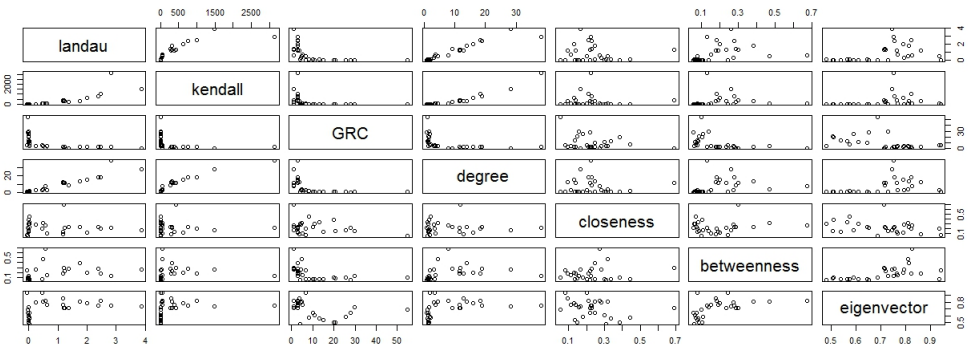
Hierarchy in Networks–Datasets

- ▶ Manager to Manager Email Data
 - ▶ County manager should be at top of hierarchy.
- ▶ Congressional Influence
 - ▶ Party leaders should be at the top of hierarchy.
- ▶ Many More...

Hierarchy in networks–Measures

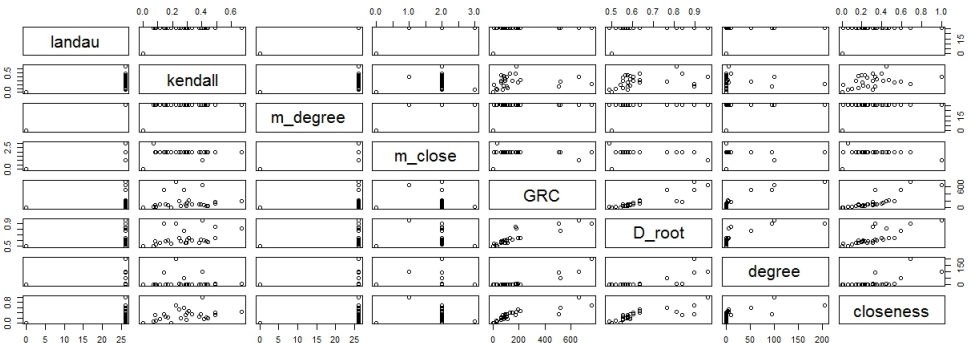
Measure	Undirected	Weighted	Global	Local
Landau's h		X	X	
Kendall's K	X	X		X
Reach Degree	X	X		X
Reach Closeness	X	X		X
GRC	X	X	X	X
Rooted Depth			X	
Degree	X	X	X	X
Closeness	X	X	X	X
Betweenness	X	X	X	X
Eigenvector	X	X	X	X

Hierarchy in Networks – Global Measures



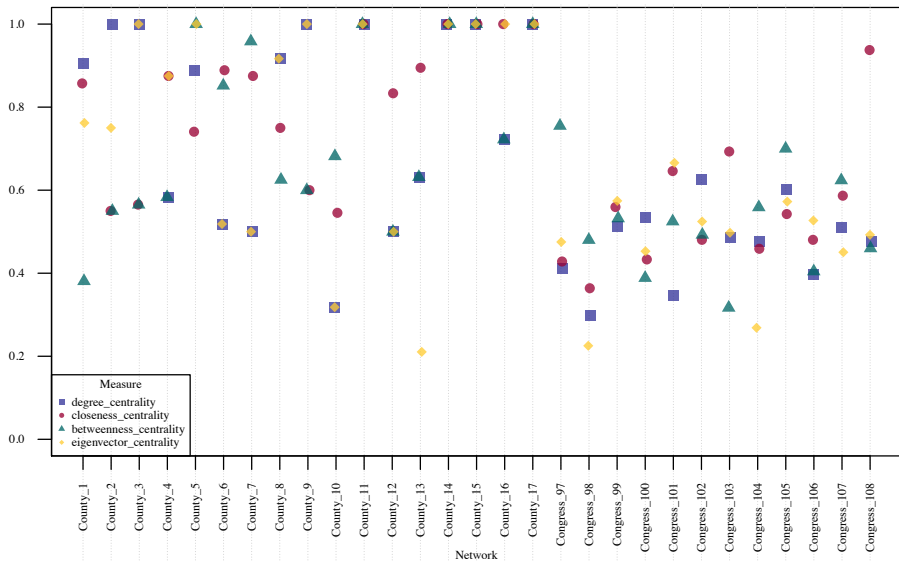
*Measures for all 29 datasets.

Hierarchy in Networks – Local Measures

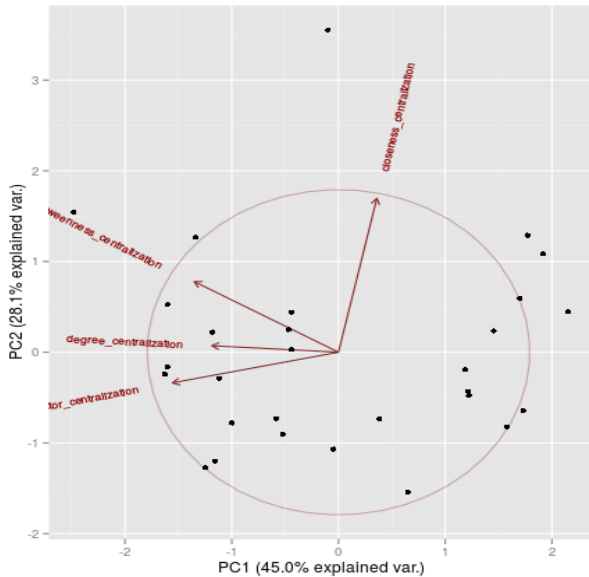


*Measures for dataset 6.

Hierarchy in Networks – Comparing Measures



Hierarchy in Networks – PCA



Hierarchy in Networks – PCA

