

Table S1

Pair-wise differences of the betweenness centrality ICC among eight strategies.

Betweenness Centrality	BNG90	BG90	WNG90	WG90	BNG264	BG264	WNG264	WG264
BNG90								
BG90	0.097**							
WNG90	0.025	-0.072						
WG90	0.079*	-0.018	0.054					
BNG264	-0.048	-0.145***	-0.073*	-0.127***				
BG264	0.094***	-0.003	0.069*	0.015	0.142***			
WNG264	-0.012	-0.109***	-0.037	-0.091***	0.036	-0.106***		
WG264	0.071*	-0.026	0.0467	-0.007	0.120***	-0.022	0.083***	

Note: BNG90: binary + no global signal regression + AAL90, BG90: binary + global signal regression + AAL90, WG90: weighted + global signal regression + AAL90, BNG264: binary + no global signal regression + POWER264, BG264: binary + global signal regression + POWER264, WNG90: weighted + no global signal regression + AAL90, WG264: weighted + global signal regression + POWER264, WNG264: weighted + no global signal regression + POWER264. *: $p < 0.05$, **: $p < 0.01$, ***: $p < 0.001$, Bonferroni corrected.

Table S2

Pair-wise differences of the degree centrality ICC among eight strategies.

Degree Centrality	BNG90	BG90	WNG90	WG90	BNG264	BG264	WNG264	WG264
BNG90								
BG90	0.114***							
WNG90	-0.021	-						
WG90	0.093**	-0.020	0.114***					
BNG264	-0.035	-	-0.014	-				
BG264	0.058	-0.056	0.078**	-0.036	0.092***			
WNG264	-0.061	-	-0.041	-	-0.027	-0.119***		
WG264	0.062	-0.051	0.083**	-0.031	0.097***	0.005	0.123***	

Note: BNG90: binary + no global signal regression + AAL90, BG90: binary + global signal regression + AAL90, WG90: weighted + global signal regression + AAL90, BNG264: binary + no global signal regression + POWER264, BG264: binary + global signal regression + POWER264, WNG90: weighted + no global signal regression + AAL90, WG264: weighted + global signal regression + POWER264, WNG264: weighted + no global signal regression + POWER264. *: $p < 0.05$, **: $p < 0.01$, ***: $p < 0.001$, Bonferroni corrected.

Table S3

Pair-wise differences of the nodal efficiency ICC among eight strategies.

Nodal Efficiency	BNG90	BG90	WNG90	WG90	BNG264	BG264	WNG264	WG264
BNG90								
BG90	0.080 [*]							
WNG90	-0.070	-						
WG90	0.079 [*]	-0.001	0.149 ^{***}					
BNG264	-0.026	-	0.044	-				
BG264	0.060	-0.020	0.129 ^{***}	-0.019	0.086 ^{***}			
WNG264	-	-	-0.057	-	-0.101 ^{***}	-0.186 ^{***}		
WG264	0.126 ^{***}	0.206 ^{***}	0.105 ^{***}	0.206 ^{***}	0.062 ^{**}	-0.024	0.162 ^{***}	