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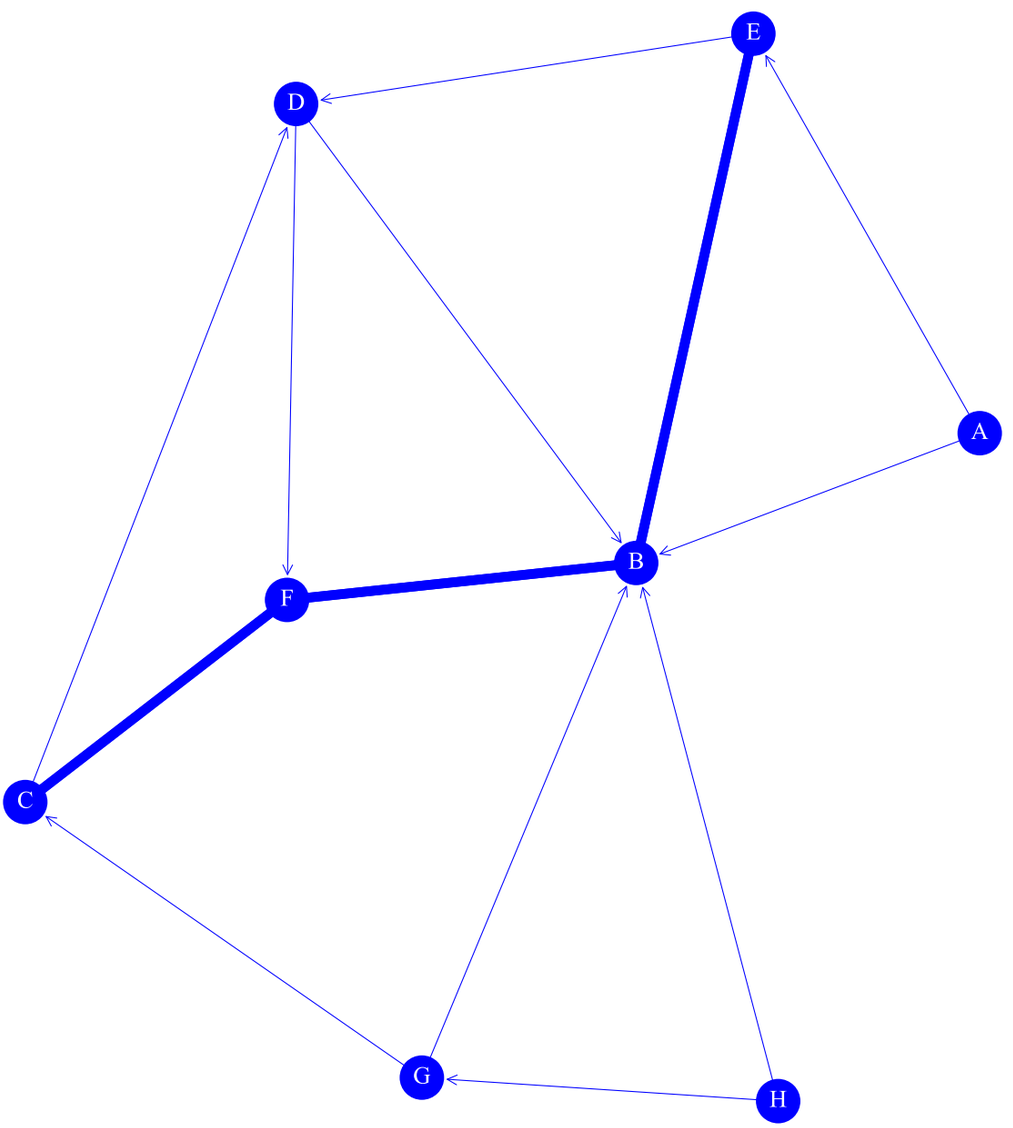
DEMO | GROUP 4 **SNA | NETWORK GRAPH**

A. Who would you like in your ideal work group?

NN 8, **NE** 16, **NR** 3, **ND** 29%, **NC** 52%, **NT** 44%, **NR** 38%



NN Nodes **NE** Edges **NR** Reciprocal edges **ND** Density **NC** Centralization **NT** Transitivity **NR** Reciprocity

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DEMO | GROUP 4 **SNA | RAW SCORES**

A. Who would you like in your ideal work group?

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	B, E	0.00	0.02	0.00	0.00	0.14	←
B	E, F	0.86	0.27	0.24	0.88	0.06	
C	D, F	0.29	0.14	0.07	0.50	0.06	
D	B, F	0.29	0.14	0.05	0.54	0.15	
E	B, D	0.29	0.14	0.06	0.54	0.14	
F	B, C	0.43	0.25	0.12	0.64	0.15	
G	B, C	0.14	0.03	0.04	0.14	0.15	
H	B, G	0.00	0.02	0.00	0.00	0.13	←

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closeness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄)

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DEMO | GROUP 4 **SNA | RANK SCORES**

A. Who would you like in your ideal work group?

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	B, E	5	7	7	6	3	←
B	E, F	1	1	1	1	5	
C	D, F	3	5	3	4	5	
D	B, F	3	4	5	3	2	
E	B, D	3	3	4	3	3	
F	B, C	2	2	2	2	1	
G	B, C	4	6	6	5	1	
H	B, G	5	7	7	6	4	←

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closeness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄)

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A. Who would you like in your ideal work group?

RANK	IC	RANK	PR	RANK	BT	RANK	CL	RANK	HU
1	B	1	B	1	B	1	B	1	F
2	F	2	F	2	F	2	F	1	G
3	C	3	E	3	C	3	D	2	D
3	D	4	D	4	E	3	E	3	A
3	E	5	C	5	D	4	C	3	E
4	G	6	G	6	G	5	G	4	H
5	A	7	A	7	A	6	A	5	B
5	H	7	H	7	H	6	H	5	C

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closeness **HU** Hub

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A. Who would you like in your ideal work group?

Non reciprocal edges

X → Y in network A · not Y → X in network A

A · B | A · E | C · D | D · B | D · F | E · D | G · B | G · C | H · B | H · G

Reciprocal edges

X → Y in network A · Y → X in network A

B · E | B · F | C · F

Half symmetrical edges

X → Y in network A · X → Y in network B

B · F

Reversed half symmetrical edges

X → Y in network A · Y → X in network B

D · F | E · D | F · B | G · B

Full symmetrical edges

X → Y, Y → X in network A · X → Y, Y → X in network B

No edge of this type

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A. Who would you like in your ideal work group?

Cliques

Each node can reach every other node: a) without intermediaries; b) ignoring the direction of connections

3 B · D · E | A · B · E | B · G · H | B · D · F | C · D · F

Strongly Connected Groups

Each node can reach every other node: a) with or without intermediaries; b) following the direction of connections

5 B · C · D · E · F

Weakly Connected Groups

Each node can reach every other node: a) with or without intermediaries; b) ignoring the direction of connections

8 A · B · C · D · E · F · G · H

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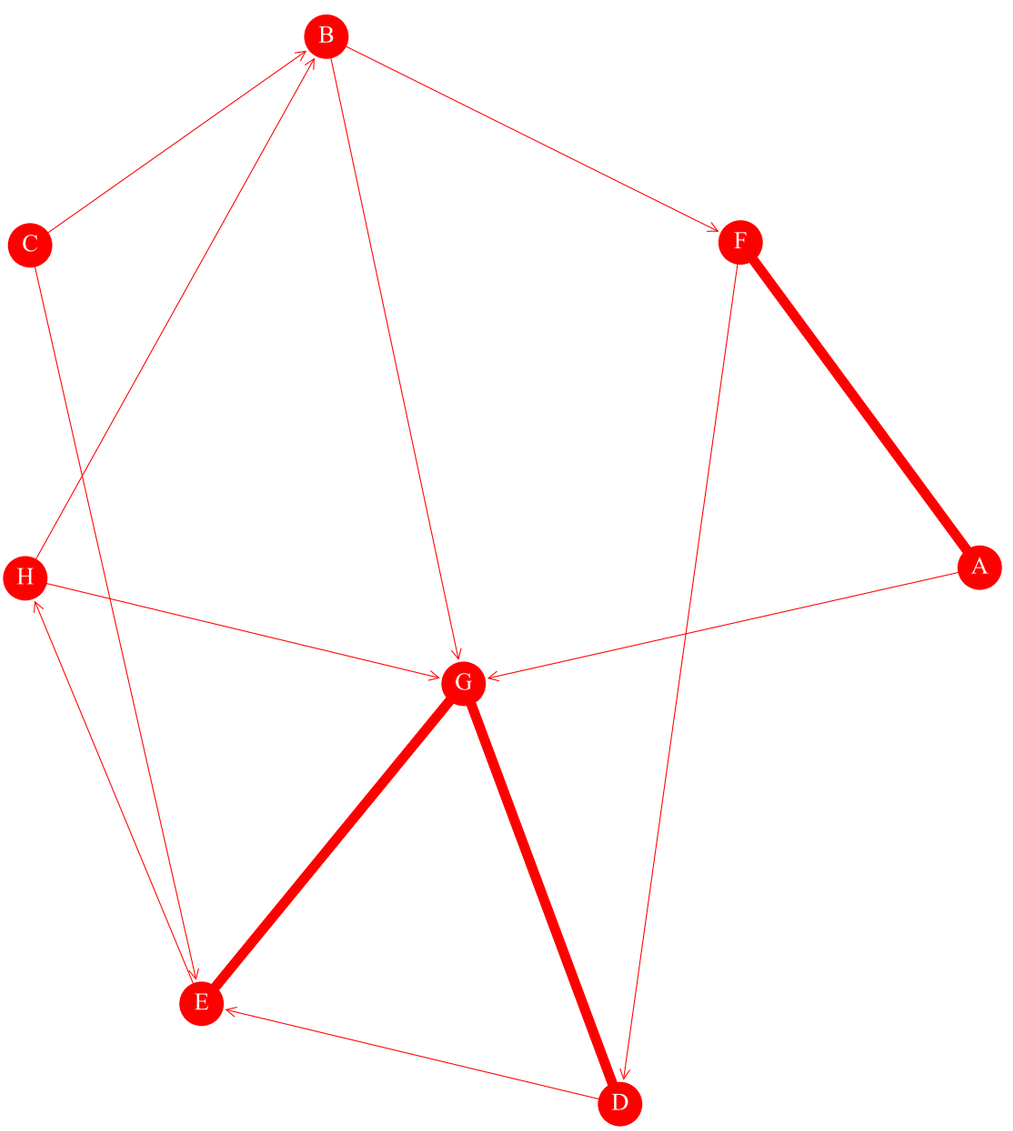
B. Who would you not want in your ideal work group?

NN 8, **NE** 16, **NR** 3, **ND** 29%, **NC** 33%, **NT** 31%, **NR** 38%



NN Nodes **NE** Edges **NR** Reciprocal edges **ND** Density **NC** Centralization **NT** Transitivity **NR** Reciprocity

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B. Who would you not want in your ideal work group?

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	F, G	0.14	0.05	0.01	0.30	0.18	
B	F, G	0.29	0.07	0.27	0.39	0.18	
C	B, E	0.00	0.02	0.00	0.00	0.08	←
D	E, G	0.29	0.17	0.08	0.54	0.17	
E	G, H	0.43	0.22	0.35	0.64	0.15	
F	A, D	0.29	0.07	0.17	0.41	0.01	
G	D, E	0.71	0.28	0.23	0.78	0.06	
H	B, G	0.14	0.11	0.26	0.44	0.16	

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closeness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄)

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B. Who would you not want in your ideal work group?

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	F, G	4	7	7	7	1	
B	F, G	3	5	2	6	1	
C	B, E	5	8	8	8	5	←
D	E, G	3	3	6	3	2	
E	G, H	2	2	1	2	4	
F	A, D	3	6	5	5	7	
G	D, E	1	1	4	1	6	
H	B, G	4	4	3	4	3	

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closeness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄)

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B. Who would you not want in your ideal work group?

RANK	IC	RANK	PR	RANK	BT	RANK	CL	RANK	HU
1	G	1	G	1	E	1	G	1	A
2	E	2	E	2	B	2	E	1	B
3	B	3	D	3	H	3	D	2	D
3	D	4	H	4	G	4	H	3	H
3	F	5	B	5	F	5	F	4	E
4	A	6	F	6	D	6	B	5	C
4	H	7	A	7	A	7	A	6	G
5	C	8	C	8	C	8	C	7	F

IC In-Degree **PR** PageRank **BT** Betweenness **CL** Closeness **HU** Hub

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B. Who would you not want in your ideal work group?

Non reciprocal edges

X → Y in network B · not Y → X in network B

A · G | B · F | B · G | C · B | C · E | D · E | E · H | F · D | H · B | H · G

Reciprocal edges

X → Y in network B · Y → X in network B

A · F | D · G | E · G

Half symmetrical edges

X → Y in network B · X → Y in network A

B · F

Reversed half symmetrical edges

X → Y in network B · Y → X in network A

B · F | B · G | D · E | F · D

Full symmetrical edges

X → Y, Y → X in network B · X → Y, Y → X in network A

No edge of this type

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B. Who would you not want in your ideal work group?

Cliques

Each node can reach every other node: a) without intermediaries; b) ignoring the direction of connections

3 D · E · G | E · G · H | B · G · H

Strongly Connected Groups

Each node can reach every other node: a) with or without intermediaries; b) following the direction of connections

7 A · B · D · E · F · G · H

Weakly Connected Groups

Each node can reach every other node: a) with or without intermediaries; b) ignoring the direction of connections

8 A · B · C · D · E · F · G · H

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A. Who would you like in your ideal work group?

ID	Count	Min	Max	Median	Mean	SD	CV	SK	KT	P25	P75
In degree Centrality	8.00	0.00	0.86	0.29	0.29	0.28	1.12	1.28	2.31	0.11	0.32
PageRank Centrality	8.00	0.02	0.27	0.14	0.12	0.10	1.35	0.33	-1.29	0.02	0.17
Betweenness Centrality	8.00	0.00	0.24	0.05	0.07	0.08	1.17	1.60	2.92	0.03	0.08
Closeness Centrality	8.00	0.00	0.88	0.52	0.40	0.32	1.39	-0.16	-1.27	0.11	0.56
Hub Centrality	8.00	0.06	0.15	0.14	0.12	0.04	1.21	-1.27	-0.23	0.11	0.15

Min Minumum value **Max** Maximum value **SD** Standard deviation **CV** Coefficient of variation **SK** Skewness **KT** Kurtosis **P25** 25° percentile **P75** 75° percentile

B. Who would you not want in your ideal work group?

ID	Count	Min	Max	Median	Mean	SD	CV	SK	KT	P25	P75
In degree Centrality	8.00	0.00	0.71	0.29	0.29	0.22	1.12	0.99	1.66	0.14	0.32
PageRank Centrality	8.00	0.02	0.28	0.09	0.12	0.09	1.46	0.76	-0.54	0.07	0.18
Betweenness Centrality	8.00	0.00	0.35	0.20	0.17	0.13	1.52	-0.21	-1.38	0.07	0.26
Closeness Centrality	8.00	0.00	0.78	0.42	0.44	0.23	1.29	-0.57	1.22	0.37	0.56
Hub Centrality	8.00	0.01	0.18	0.16	0.12	0.06	1.40	-0.90	-0.80	0.08	0.18

Min Minumum value **Max** Maximum value **SD** Standard deviation **CV** Coefficient of variation **SK** Skewness **KT** Kurtosis **P25** 25° percentile **P75** 75° percentile

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DEMO | GROUP 4 **SOCIOGRAM**

ID	RP	RR	GP	GR	MP	MR	BL	OR	IM	AI	II	ST
A	0	1	2	2	0	1	-1	0	1	-1	0	marginal
B	6	2	2	2	2	0	4	0	8	4	8	appreciated
C	2	0	2	2	1	0	2	0	2	2	3	appreciated
D	2	2	2	2	0	1	0	0	4	0	2	ambitendent
E	2	3	2	2	1	1	-1	0	5	-1	3	disliked
F	3	2	2	2	2	1	1	0	5	1	5	appreciated
G	1	5	2	2	0	2	-4	0	6	-4	1	disliked
H	0	1	2	2	0	0	-1	0	1	-1	0	marginal

RP Received preferences **RR** Received rejections **GP** Given preferences **GR** Given rejections **MP** Mutual preferences **MR** Mutual rejections **BL** Balance **OR** Orientation **IM** Impact **AI** Affiliation index **II** Influence index **ST** Sociometric status

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DEMO | GROUP 4 **SOCIOGRAM | NODES ORDERED BY METRIC**

RANK	BL	RANK	IM	RANK	AI	RANK	II	RANK	ST
1	B	1	B	1	B	1	B	appreciated	B
2	C	2	G	2	C	2	F	appreciated	C
3	F	3	E	3	F	3	C	appreciated	F
4	D	3	F	4	D	3	E	ambitendent	D
5	A	4	D	5	A	4	D	marginal	A
5	E	5	C	5	E	5	G	marginal	H
5	H	6	A	5	H	6	A	disliked	E
6	G	6	H	6	G	6	H	disliked	G

RP Received preferences **RR** Received rejections **GP** Given preferences **GR** Given rejections **BL** Balance **IM** Impact **AI** Affiliation index **II** Influence index

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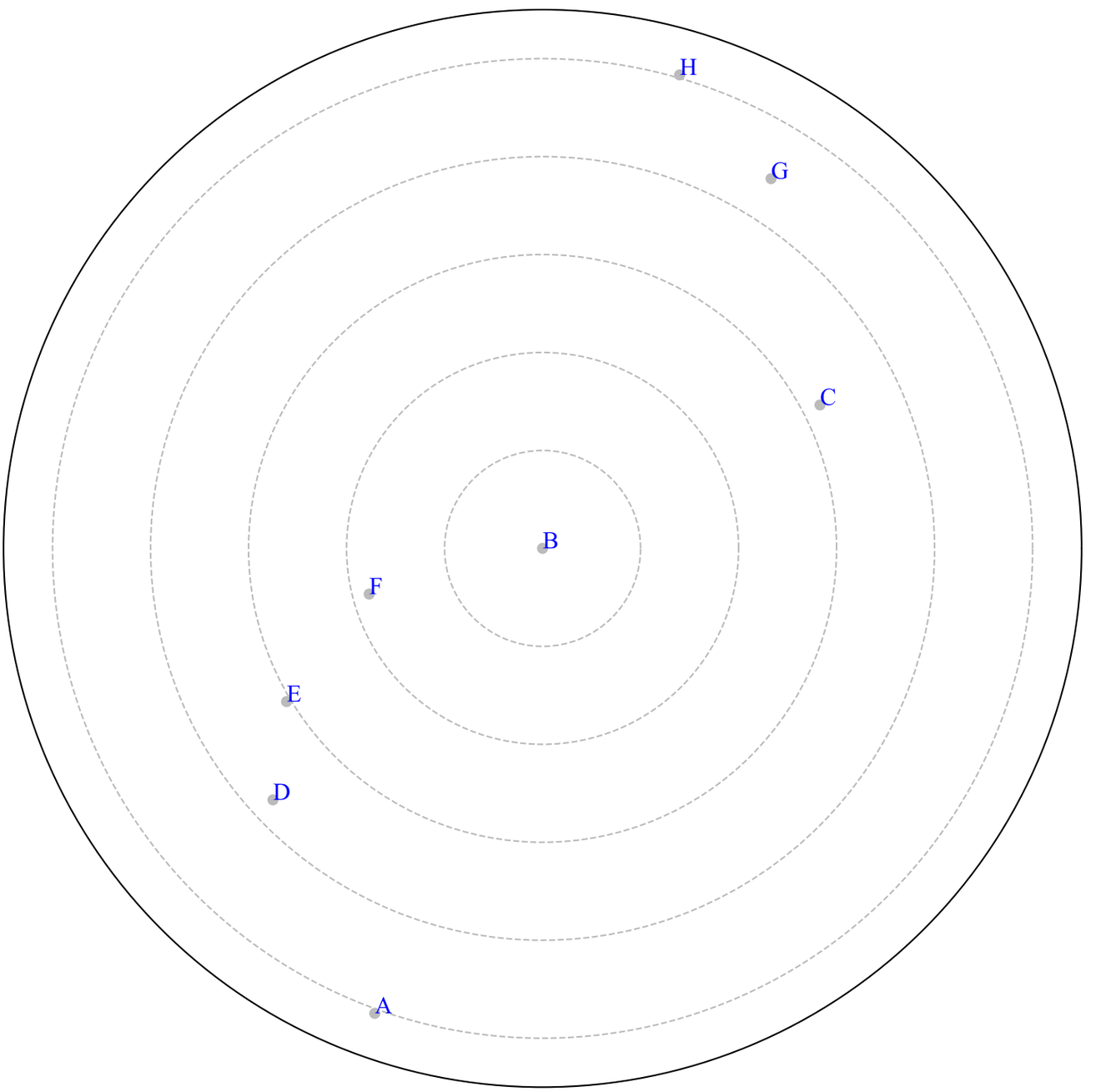
Influence index



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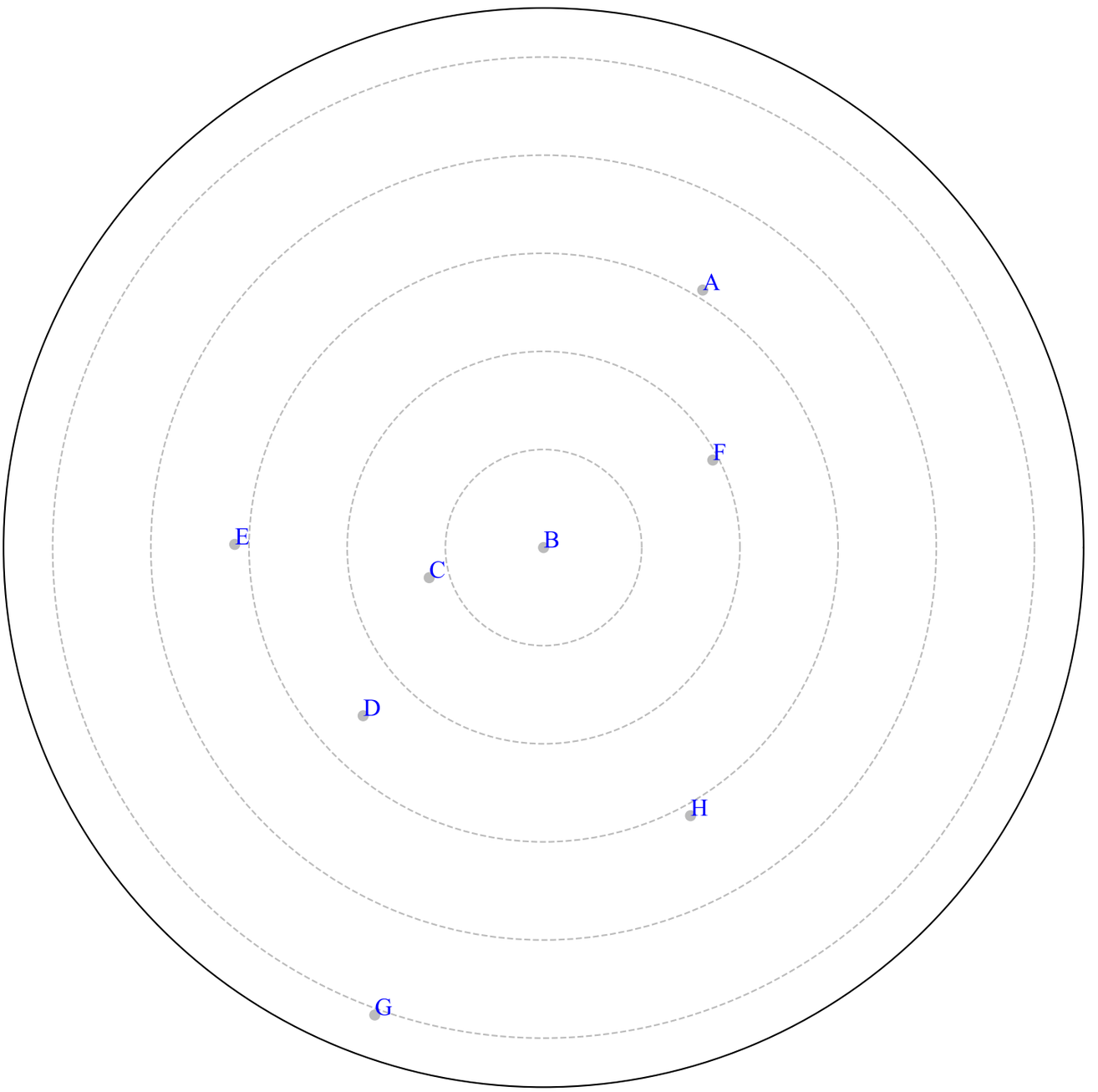
Affiliation index



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Type I cohesion index : 37.50% *Type II cohesion index : 0.38*
Type I conflitct index : 37.50% *Type II conflitct index : 0.38*

ID	Count	Min	Max	Median	Mean	SD	CV	SK	KT	P25	P75
Received preferences	8.00	0.00	6.00	2.00	2.00	1.93	1.12	1.28	2.31	0.75	2.25
Received rejections	8.00	0.00	5.00	2.00	2.00	1.51	1.12	0.99	1.66	1.00	2.25
Given Preferences	8.00	2.00	2.00	2.00	2.00	0.00	1.00	0.00	0.00	2.00	2.00
Given rejections	8.00	2.00	2.00	2.00	2.00	0.00	1.00	0.00	0.00	2.00	2.00
Mutual preferences	8.00	0.00	2.00	0.50	0.75	0.89	1.67	0.62	-1.48	0.00	1.25
Mutual rejections	8.00	0.00	2.00	1.00	0.75	0.71	1.33	0.40	-0.23	0.00	1.00
Balance	8.00	-4.00	4.00	-0.50	0.00	2.39	inf	0.08	0.69	-1.00	1.25
Orientation	8.00	0.00	0.00	0.00	0.00	0.00	nan	0.00	0.00	0.00	0.00
Impact	8.00	1.00	8.00	4.50	4.00	2.51	1.31	0.15	-0.98	1.75	5.25
Affiliation index	8.00	-4.00	4.00	-0.50	0.00	2.39	inf	0.08	0.69	-1.00	1.25
Influence index	8.00	0.00	8.00	2.50	2.75	2.71	1.27	1.04	0.86	0.75	3.50

Min Minumum value **Max** Maximum value **SD** Standard deviation **CV** Coefficient of variation **SK** Skewness **KT** Kurtosis **P25** 25° percentile **P75** 75° percentile

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