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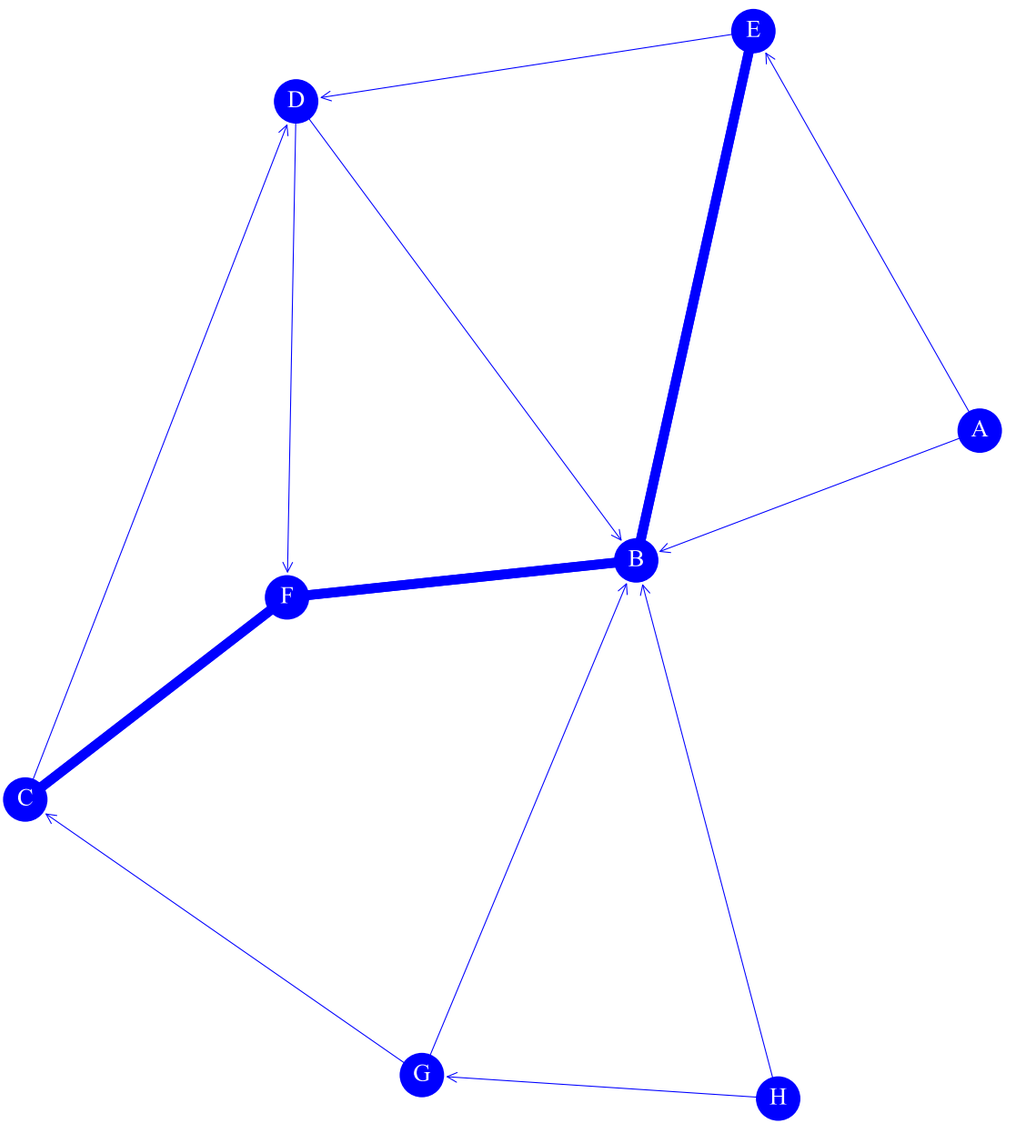
DEMO | GROUP 4 **SNA | NETWORK GRAPH**

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

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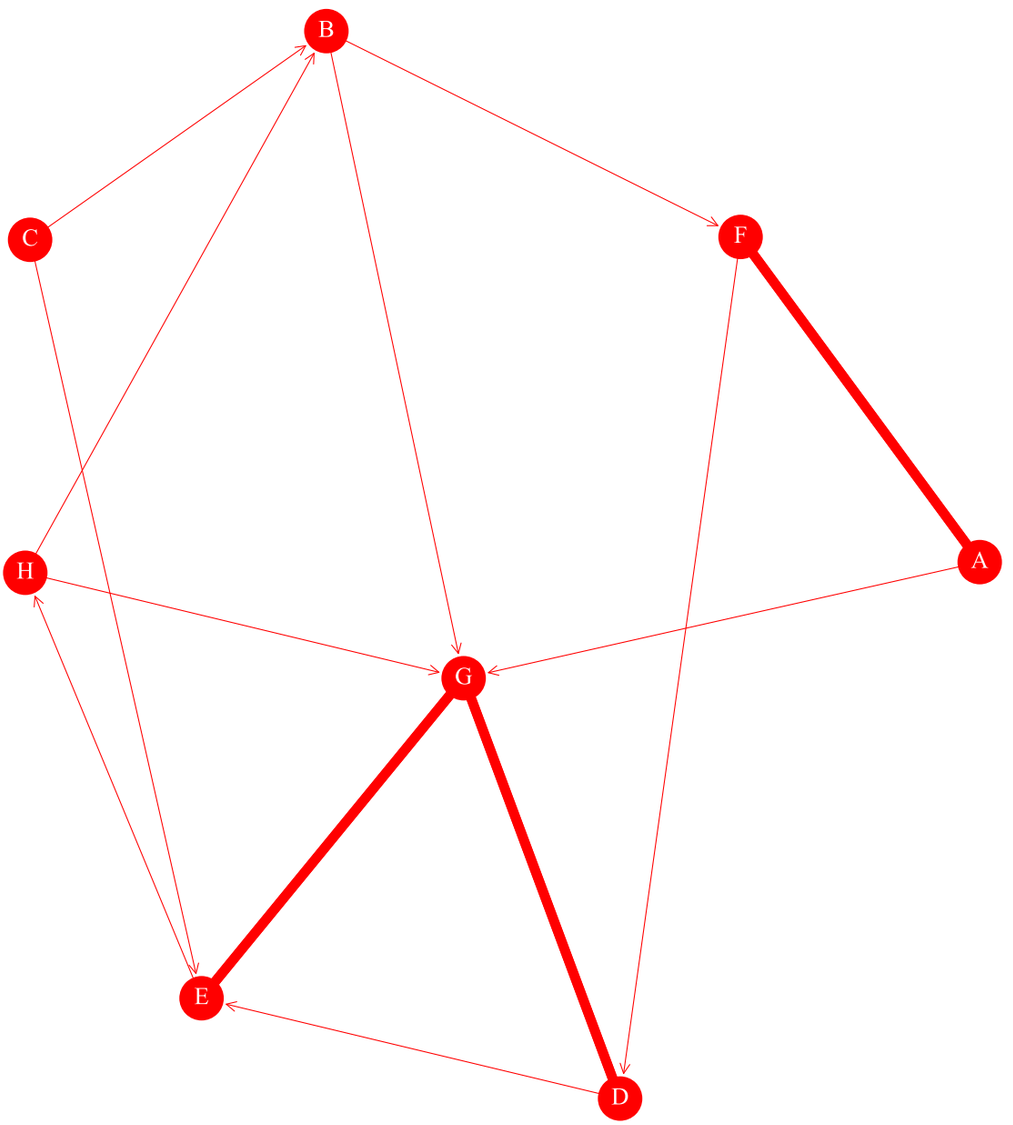
B. Who would you not want in your ideal work group?

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 B · G · H | E · G · H | D · E · G

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	Sum	Min	Max	Median	Mean	SD	CV	SK	KT	P25	P75
In degree Centrality	8	2	0	0	0	0.29	0.28	1.12	1.28	2.31	0.11	0.32
PageRank Centrality	8	0	0	0	0	0.12	0.10	1.35	0.33	-1.29	0.02	0.17
Betweenness Centrality	8	0	0	0	0	0.07	0.08	1.17	1.60	2.92	0.03	0.08
Closeness Centrality	8	3	0	0	0	0.40	0.32	1.39	-0.16	-1.27	0.11	0.56
Hub Centrality	8	1	0	0	0	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	Sum	Min	Max	Median	Mean	SD	CV	SK	KT	P25	P75
In degree Centrality	8	2	0	0	0	0.29	0.22	1.12	0.99	1.66	0.14	0.32
PageRank Centrality	8	0	0	0	0	0.12	0.09	1.46	0.76	-0.54	0.07	0.18
Betweenness Centrality	8	1	0	0	0	0.17	0.13	1.52	-0.21	-1.38	0.07	0.26
Closeness Centrality	8	3	0	0	0	0.44	0.23	1.29	-0.57	1.22	0.37	0.56
Hub Centrality	8	1	0	0	0	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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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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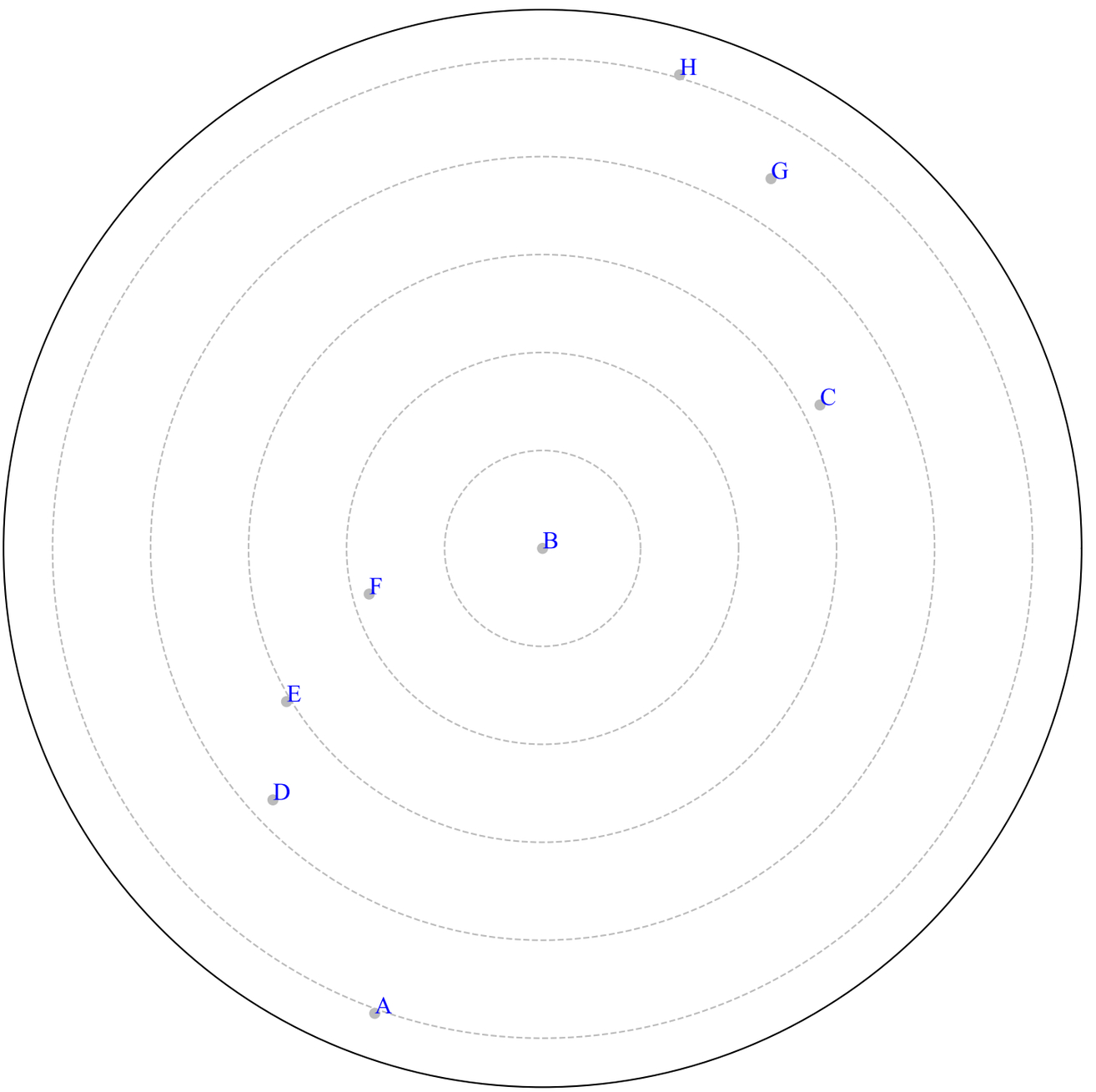
Influence index



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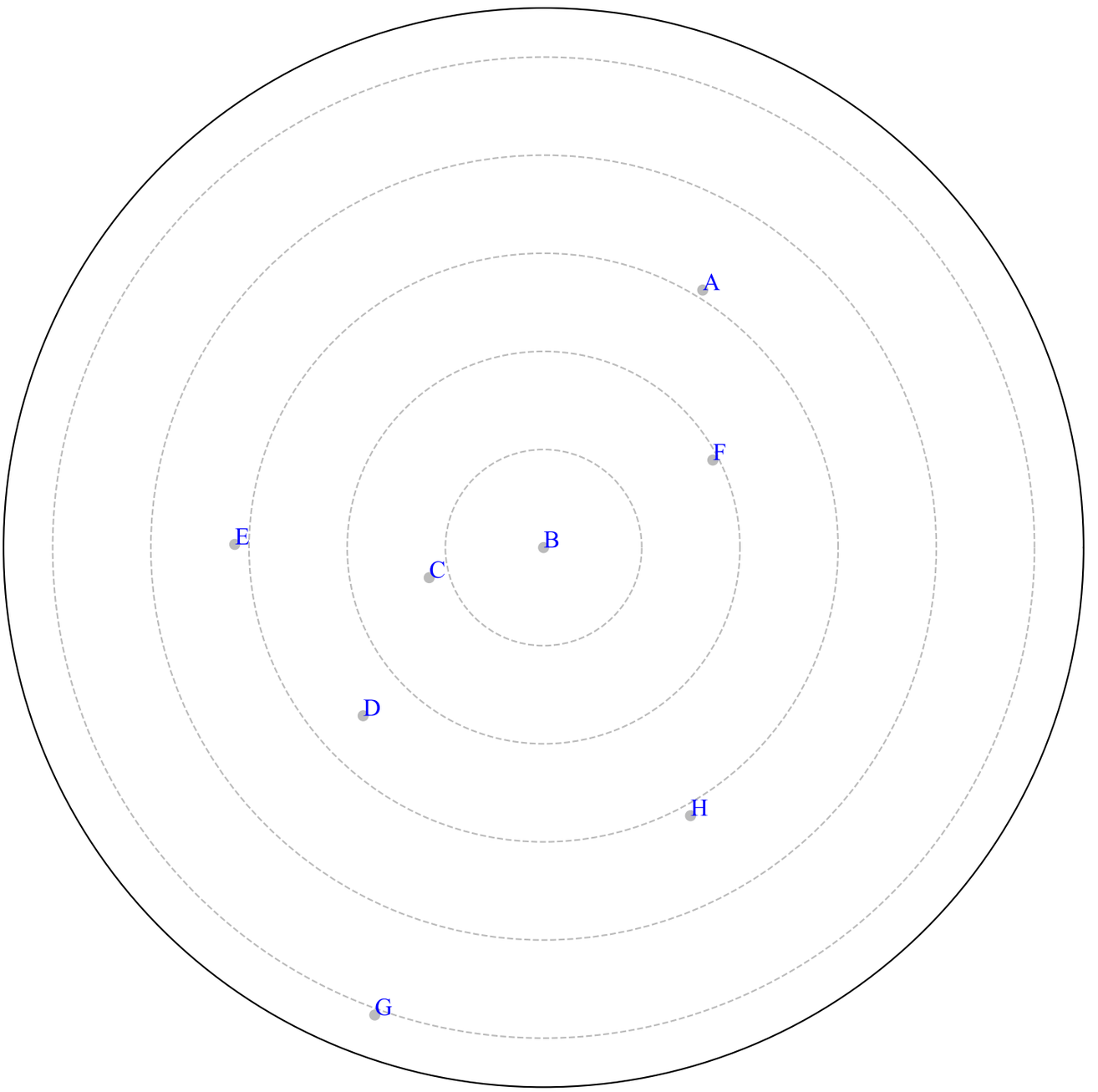
Affiliation index



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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	Sum	Min	Max	Median	Mean	SD	CV	SK	KT	P25	P75
Received preferences	8	16	0	6	2	2.00	1.93	1.12	1.28	2.31	0.75	2.25
Received rejections	8	16	0	5	2	2.00	1.51	1.12	0.99	1.66	1.00	2.25
Given Preferences	8	16	2	2	2	2.00	0.00	1.00	0.00	0.00	2.00	2.00
Given rejections	8	16	2	2	2	2.00	0.00	1.00	0.00	0.00	2.00	2.00
Mutual preferences	8	6	0	2	0	0.75	0.89	1.67	0.62	-1.48	0.00	1.25
Mutual rejections	8	6	0	2	1	0.75	0.71	1.33	0.40	-0.23	0.00	1.00
Balance	8	0	-4	4	0	0.00	2.39	inf	0.08	0.69	-1.00	1.25
Orientation	8	0	0	0	0	0.00	0.00	nan	0.00	0.00	0.00	0.00
Impact	8	32	1	8	4	4.00	2.51	1.31	0.15	-0.98	1.75	5.25
Affiliation index	8	0	-4	4	0	0.00	2.39	inf	0.08	0.69	-1.00	1.25
Influence index	8	22	0	8	2	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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