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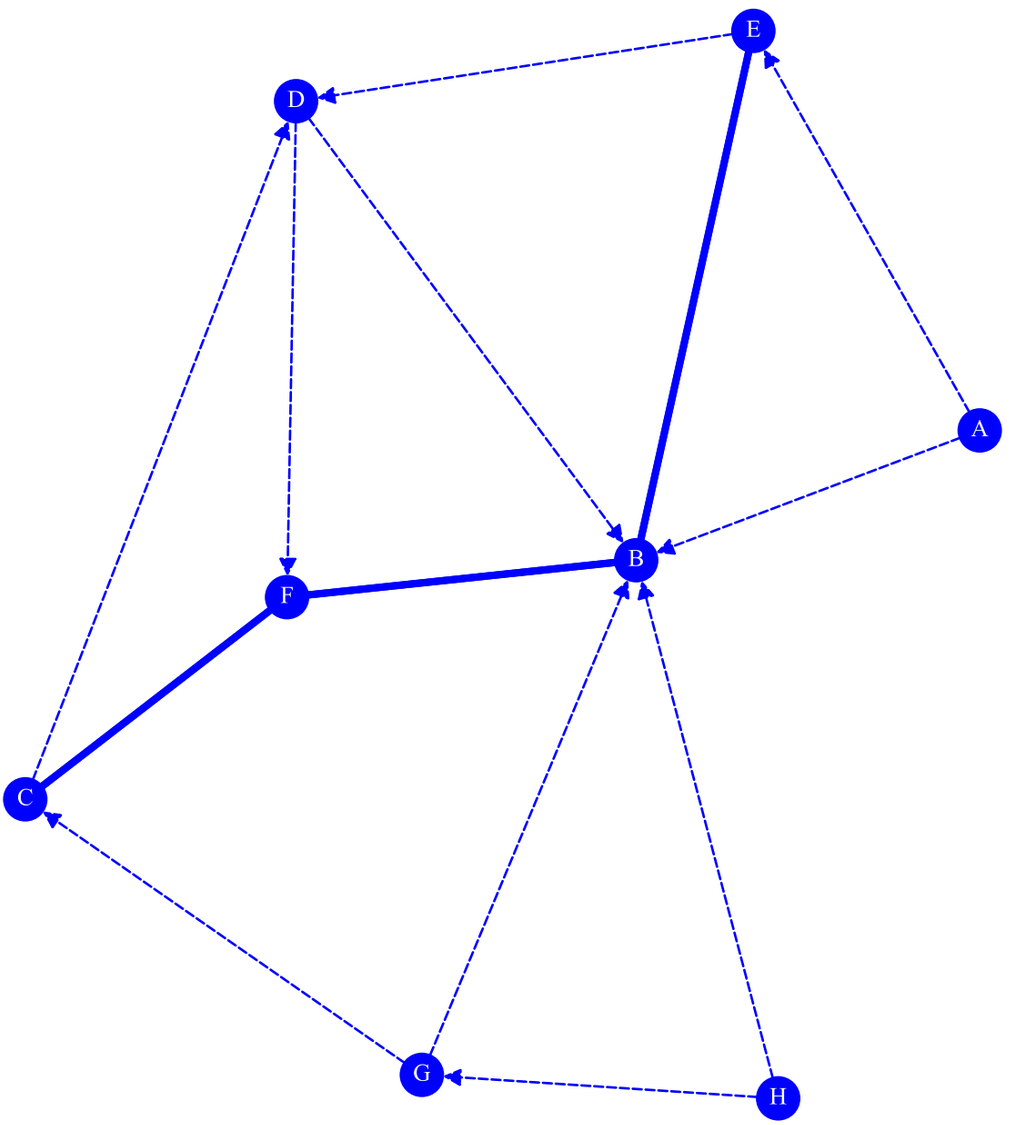
GROUP 4 - DEMO **SNA NETWORK GRAPH**

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

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



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

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GROUP 4 - DEMO **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** Closenness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄)

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GROUP 4 - DEMO **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** Closenness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄) Very low Low High Very high

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GROUP 4 - DEMO **SNA NODES ORDERED BY RANKS**

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** Closenness **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?

Strongly Connected Components

Maximal subgraphs where all vertices are mutually reachable.

5 B · C · D · E · F

Weakly Connected Components

Maximal subgraphs where any vertices are connected by undirected paths.

8 A · B · C · D · E · F · G · H

Cliques

Subgraphs that become fully connected when directional edges are ignored.

3 A · B · E

B · G · H

B · D · F

B · D · E

C · D · F

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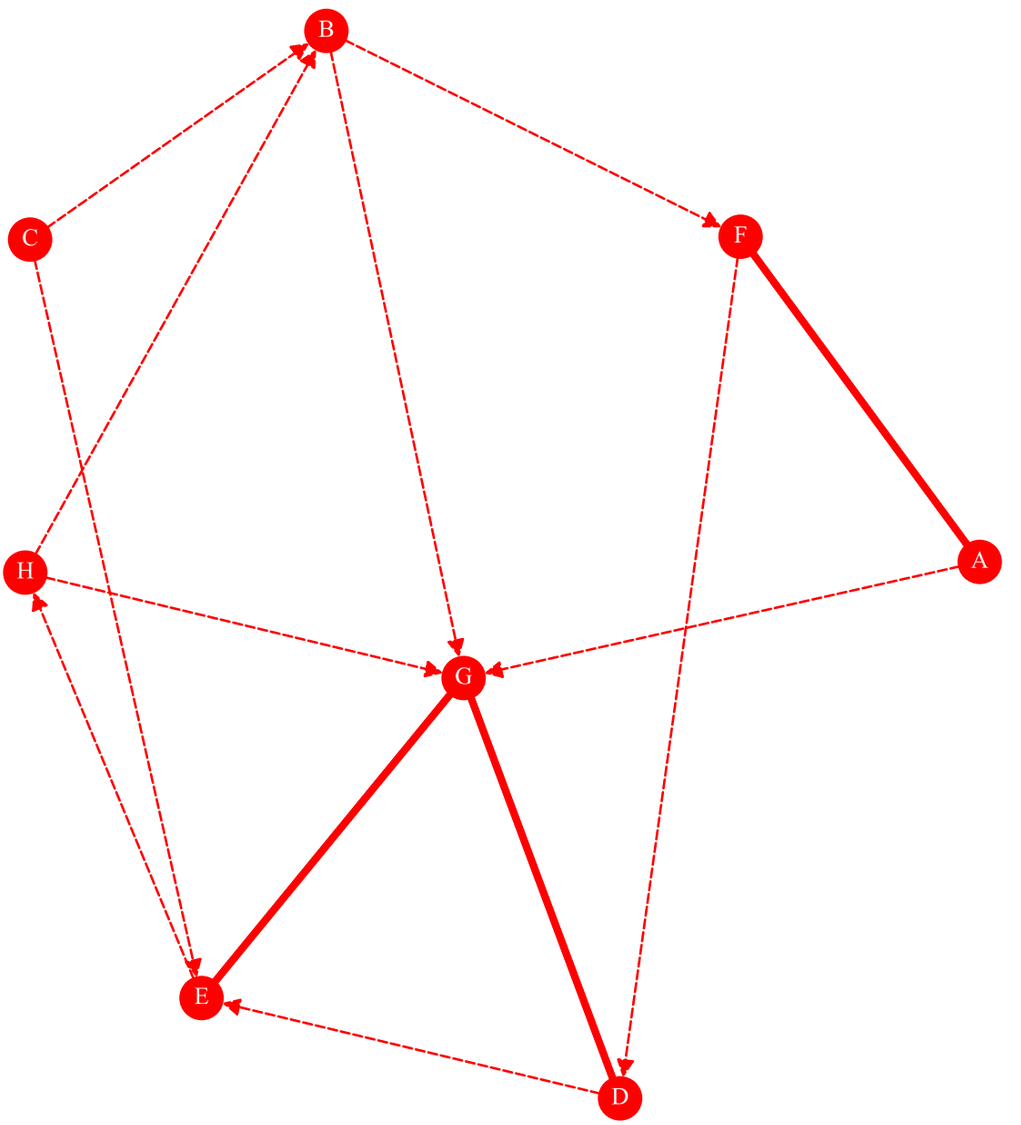
GROUP 4 - DEMO **SNA NETWORK GRAPH**

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

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



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

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GROUP 4 - DEMO **SNA RAW SCORES**

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** Closenness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄)

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GROUP 4 - DEMO **SNA RANK SCORES**

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** Closenness **HU** Hub **ND** No In-Degree (←) No Out-Degree (→) No In or Out-Degree (⇄) Very low Low High Very high

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GROUP 4 - DEMO **SNA NODES ORDERED BY RANKS**

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** Closenness **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?

Strongly Connected Components

Maximal subgraphs where all vertices are mutually reachable.

7 A · B · D · E · F · G · H

Weakly Connected Components

Maximal subgraphs where any vertices are connected by undirected paths.

8 A · B · C · D · E · F · G · H

Cliques

Subgraphs that become fully connected when directional edges are ignored.

3 B · G · H

D · E · G

E · G · H

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GROUP 4 - DEMO **SOCIOGRAM**

ID	RP	RR	GP	GR	MP	MR	BL	OR	IM	AC	IC	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	-
C	2	0	2	2	1	0	2	0	2	2	3	marginal
D	2	2	2	2	0	1	0	0	4	0	2	-
E	2	3	2	2	1	1	-1	0	5	-1	3	ambivalent
F	3	2	2	2	2	1	1	0	5	1	5	ambivalent
G	1	5	2	2	0	2	-4	0	6	-4	1	-
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 **AC** Affiliation coefficient **IC** Influence coefficient **ST** Sociometric status Very low Low High Very high

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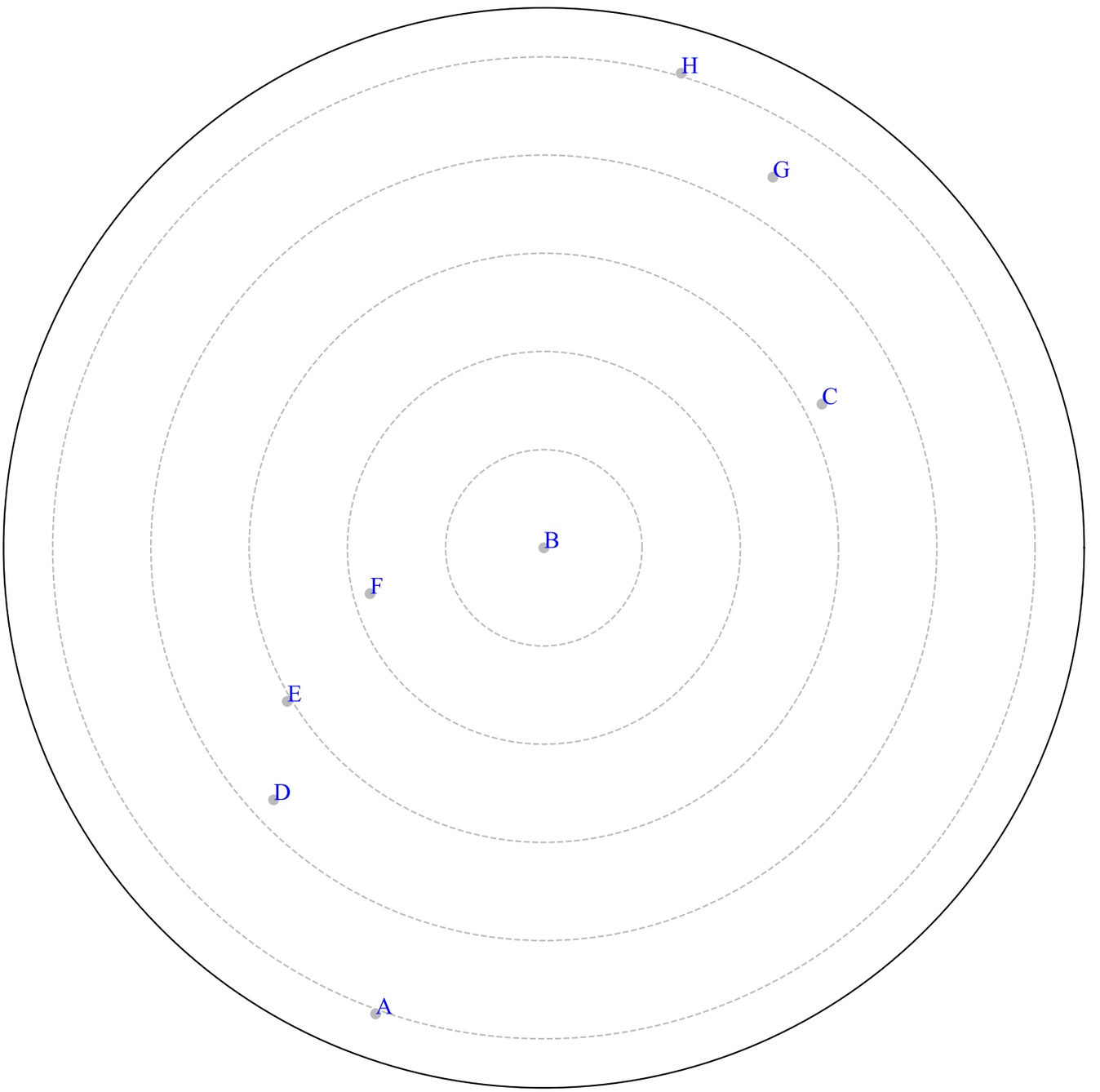
GROUP 4 - DEMO **SOCIOGRAM**

Influence coefficient



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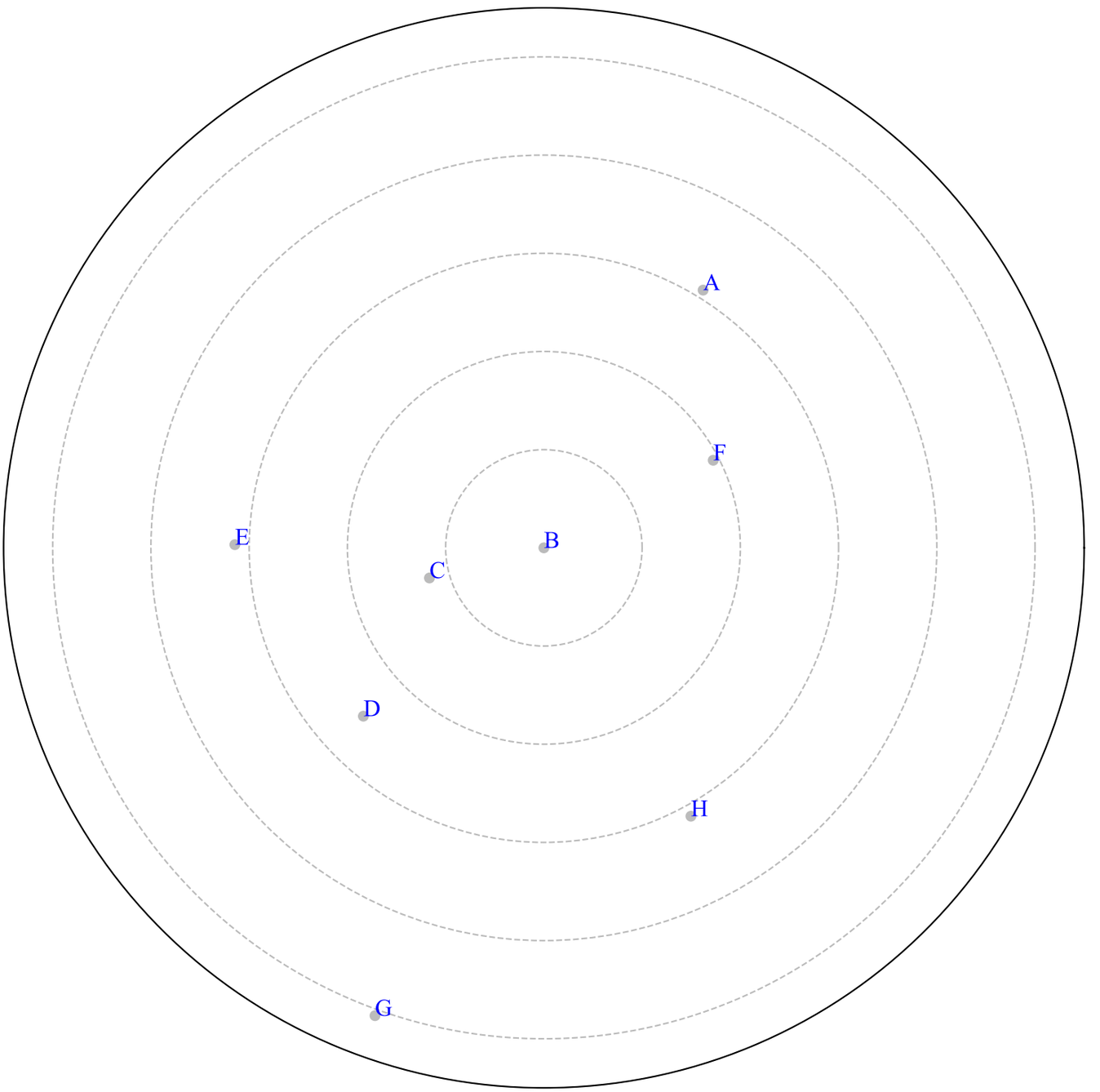
GROUP 4 - DEMO **SOCIOGRAM**

Affiliation coefficient



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GROUP 4 - DEMO **SOCIOGRAM NODES ORDERED BY RANKS**

RANK	RP	RANK	RR	RANK	GP	RANK	GR	RANK	BL	RANK	IM	RANK	AC	RANK	IC
1	B	1	G	1	A	1	A	1	B	1	B	1	B	1	B
2	F	2	E	1	B	1	B	2	C	2	G	2	C	2	F
3	C	3	B	1	C	1	C	3	F	3	E	3	F	3	C
3	D	3	D	1	D	1	D	4	D	3	F	4	D	3	E
3	E	3	F	1	E	1	E	5	A	4	D	5	A	4	D
4	G	4	A	1	F	1	F	5	E	5	C	5	E	5	G
5	A	4	H	1	G	1	G	5	H	6	A	5	H	6	A
5	H	5	C	1	H	1	H	6	G	6	H	6	G	6	H

RP Received preferences **RR** Received rejections **GP** Given preferences **GR** Given rejections **BL** Balance **IM** Impact **AC** Affiliation coefficient **IC** Influence coefficient

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GROUP 4 - DEMO **SOCIOGRAM STATISTICS**

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	Median	IQR	Mean	SD	Min	P25	P50	P75	Max
Received preferences	8	2	1	2.00	1.93	0	0	2	2	6
Received rejections	8	2	1	2.00	1.51	0	1	2	2	5
Given Preferences	8	2	0	2.00	0.00	2	2	2	2	2
Given rejections	8	2	0	2.00	0.00	2	2	2	2	2
Mutual preferences	8	0	1	0.75	0.89	0	0	0	1	2
Mutual rejections	8	1	1	0.75	0.71	0	0	1	1	2
Balance	8	0	2	0.00	2.39	-4	-1	0	1	4
Orientation	8	0	0	0.00	0.00	0	0	0	0	0
Impact	8	4	3	4.00	2.51	1	1	4	5	8
Affiliation coefficient raw	8	0	2	0.00	2.39	-4	-1	0	1	4
Influence coefficient raw	8	2	2	2.75	2.71	0	0	2	3	8

IQR Interquartile range **SD** Standard Deviation **Min** Minimum value **P25** 25° percentile **P50** 50° percentile **P75** 75° percentile **Max** Maximum value

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