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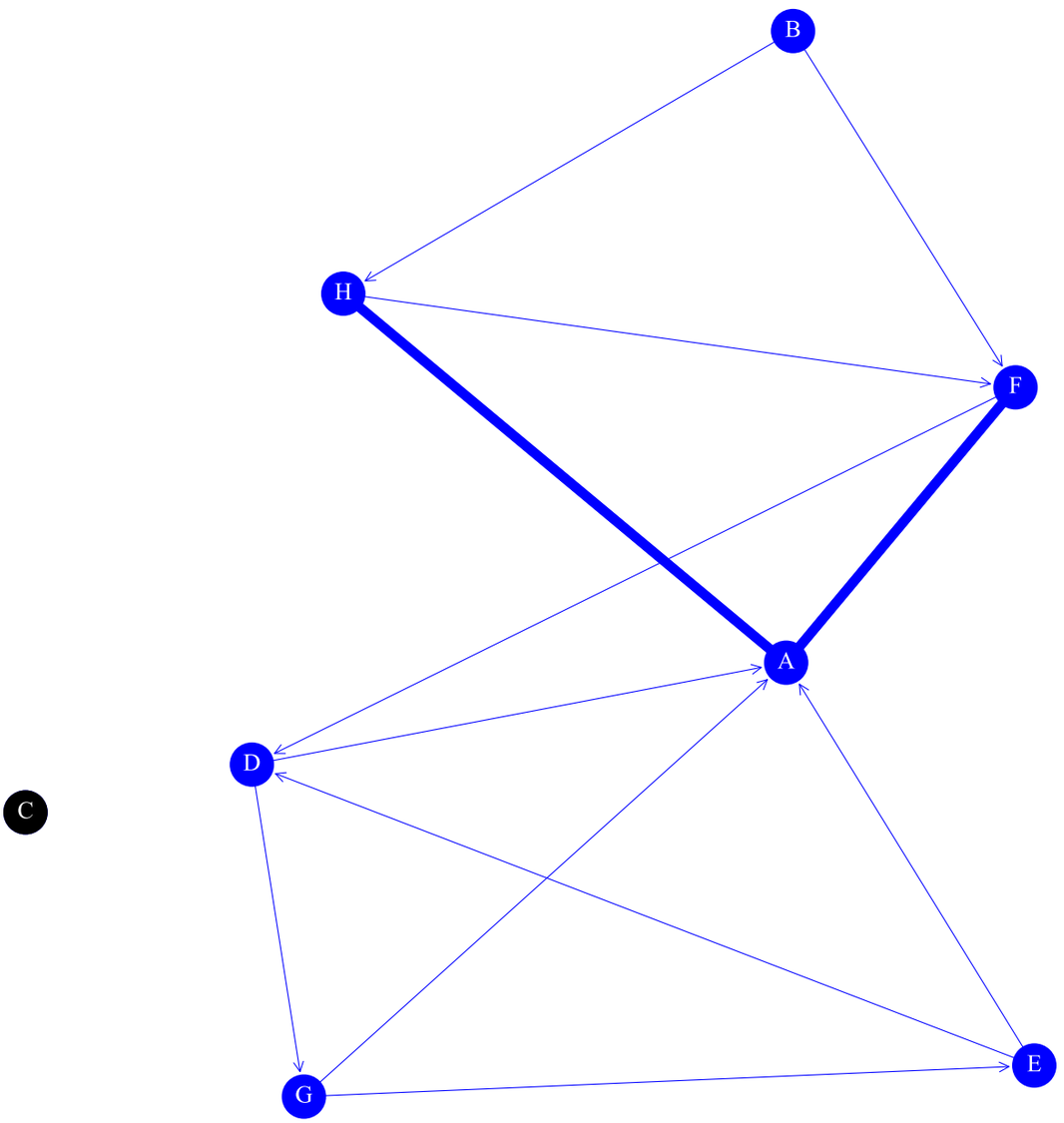
DEMO | GROUP 1 **SNA NETWORK GRAPH**

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

NN 8, **NE** 14, **NR** 2, **ND** 25%, **NC** 38%, **NT** 57%, **NR** 29%



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

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DEMO | GROUP 1 **SNA RAW SCORES**

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

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	F, H	0.71	0.30	0.17	0.73	0.07	
B	F, H	0.00	0.02	0.00	0.00	0.07	←
C	-	0.00	0.02	0.00	0.00	0.00	⇄
D	A, G	0.29	0.14	0.21	0.51	0.15	
E	A, D	0.14	0.06	0.02	0.29	0.19	
F	A, D	0.43	0.22	0.23	0.57	0.19	
G	A, E	0.14	0.08	0.12	0.37	0.15	
H	A, F	0.29	0.16	0.01	0.51	0.18	

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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DEMO | GROUP 1 **SNA RANK SCORES**

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

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

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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DEMO | GROUP 1 **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	A	1	A	1	F	1	A	1	E
2	F	2	F	2	D	2	F	1	F
3	D	3	H	3	A	3	D	2	H
3	H	4	D	4	G	3	H	3	G
4	E	5	G	5	E	4	G	4	D
4	G	6	E	6	H	5	E	5	A
5	B	7	B	7	B	6	B	5	B
5	C	7	C	7	C	6	C	6	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

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

Reciprocal edges

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

A · F | A · H

Half symmetrical edges

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

No edge of this type

Reversed half symmetrical edges

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

D · A

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

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

Strongly Connected Groups

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

6 A · 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

7 A · B · D · E · F · G · H

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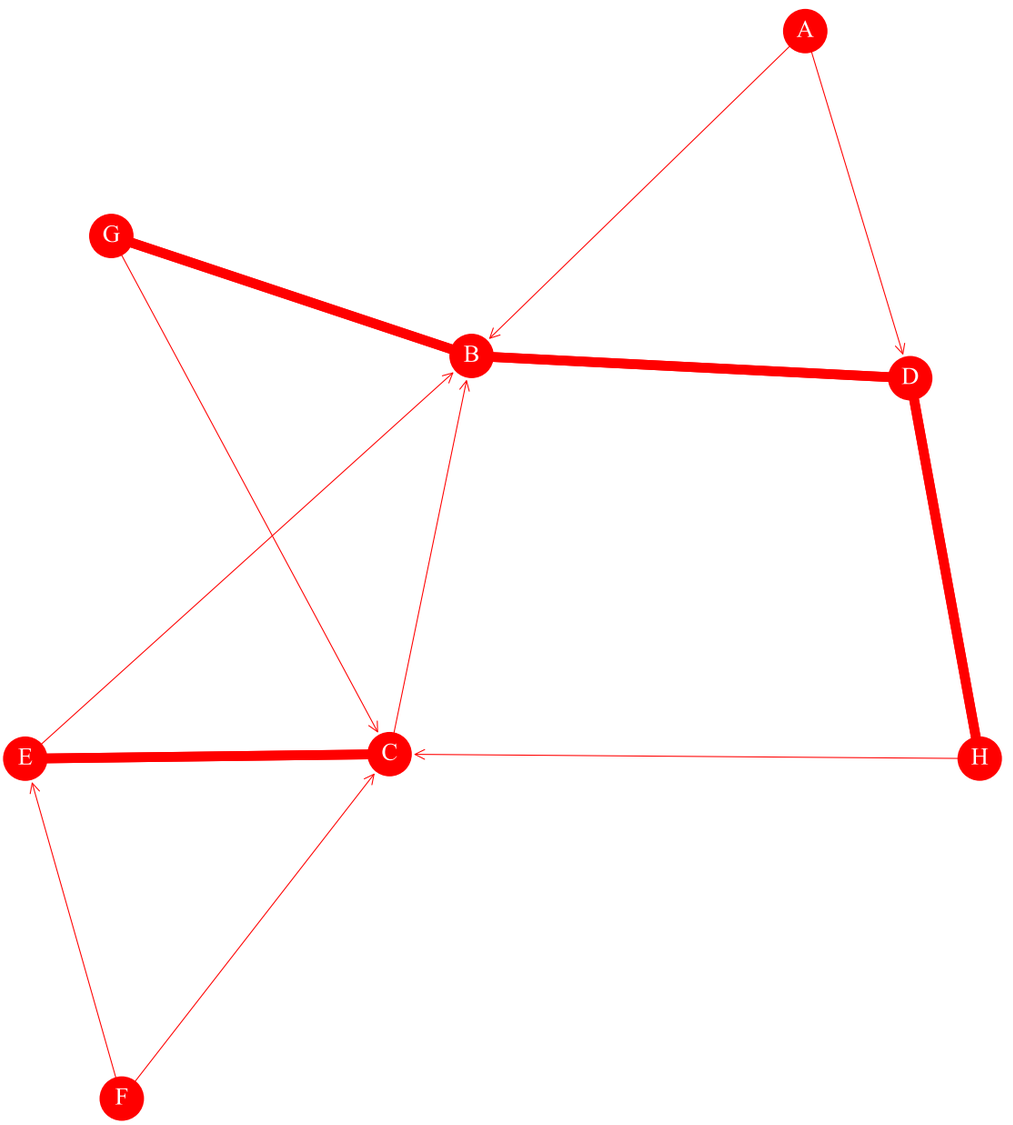
DEMO | GROUP 1 **SNA NETWORK GRAPH**

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

NN 8, **NE** 16, **NR** 4, **ND** 29%, **NC** 38%, **NT** 44%, **NR** 50%



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

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DEMO | GROUP 1 **SNA RAW SCORES**

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

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	B, D	0.00	0.02	0.00	0.00	0.14	←
B	D, G	0.71	0.28	0.36	0.78	0.05	
C	B, E	0.57	0.17	0.19	0.64	0.13	
D	B, H	0.43	0.19	0.19	0.58	0.11	
E	B, C	0.29	0.10	0.05	0.44	0.17	
F	C, E	0.00	0.02	0.00	0.00	0.11	←
G	B, C	0.14	0.14	0.07	0.47	0.17	
H	C, D	0.14	0.10	0.07	0.39	0.12	

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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DEMO | GROUP 1 **SNA RANK SCORES**

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

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

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

Reciprocal edges

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

B · D | B · G | C · E | D · H

Half symmetrical edges

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

No edge of this type

Reversed half symmetrical edges

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

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

Strongly Connected Groups

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

6 B · C · D · E · 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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DEMO | GROUP 1 **SOCIOGRAM**

ID	RP	RR	GP	GR	MP	MR	BL	OR	IM	AI	II	ST
A	5	0	2	2	2	0	5	0	5	5	7	appreciated
B	0	5	2	2	0	2	-5	0	5	-5	0	disliked
C	0	4	0	2	0	1	-4	-2	4	-6	0	disliked
D	2	3	2	2	0	2	-1	0	5	-1	2	ambitendent
E	1	2	2	2	0	1	-1	0	3	-1	1	ambitendent
F	3	0	2	2	1	0	3	0	3	3	4	appreciated
G	1	1	2	2	0	1	0	0	2	0	1	marginal
H	2	1	2	2	1	1	1	0	3	1	3	ambitendent

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 Very low Low High Very high

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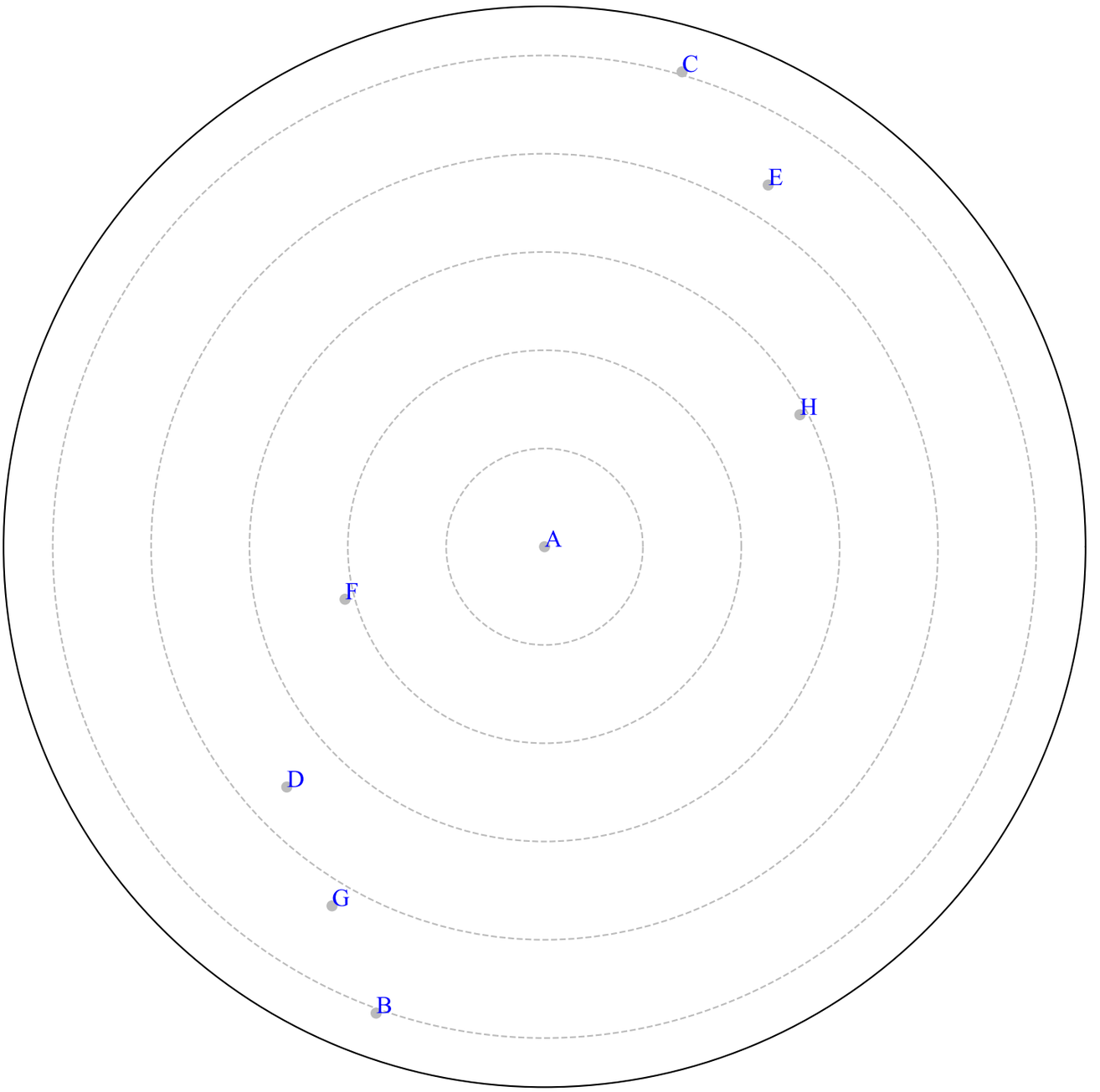
DEMO | GROUP 1 **SOCIOGRAM**

Influence index



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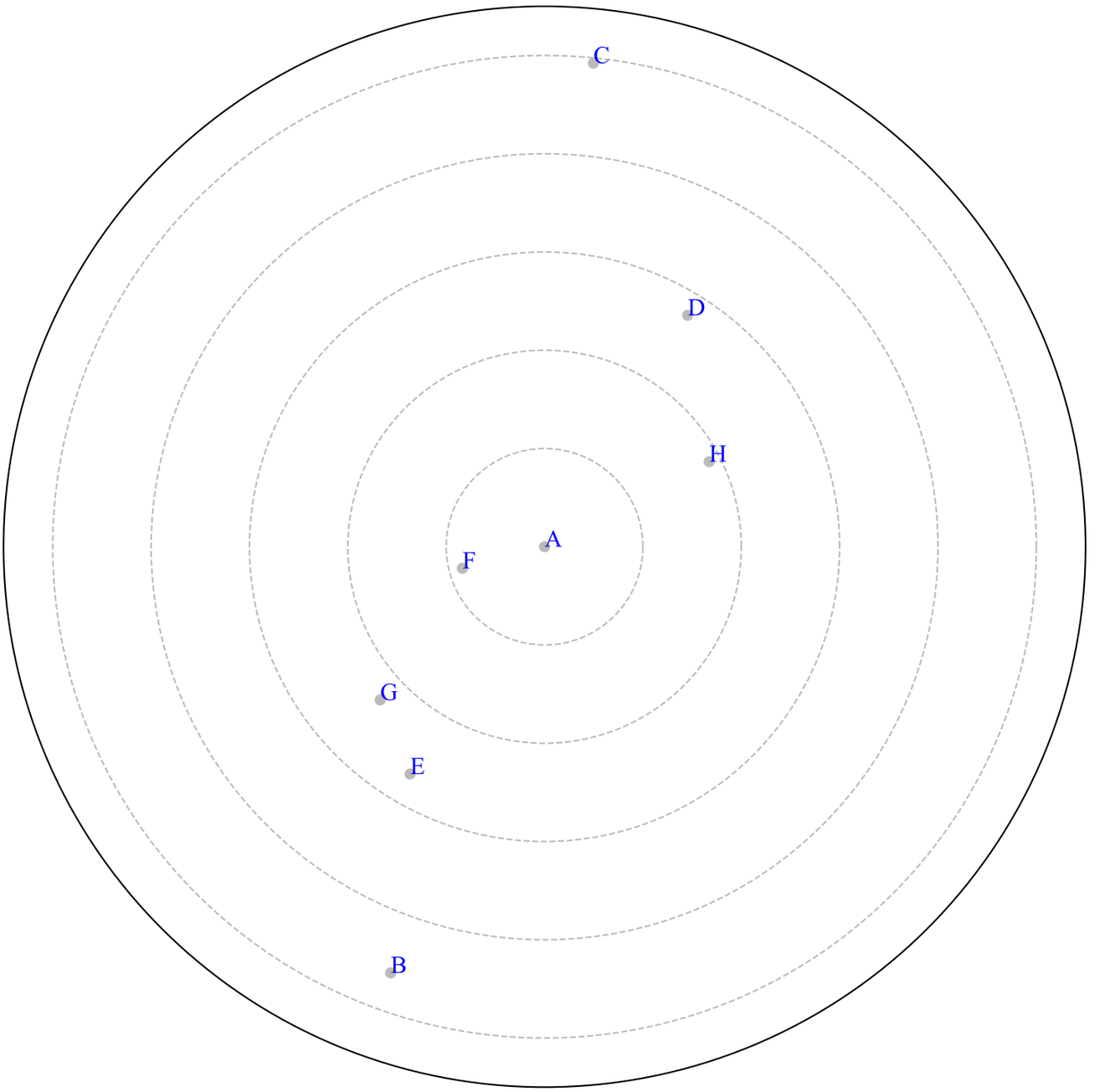
DEMO | GROUP 1 **SOCIOGRAM**

Affiliation index



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DEMO | GROUP 1 **SOCIOGRAM NODES ORDERED BY RANKS**

RANK	BL	RANK	IM	RANK	AI	RANK	II	RANK	ST
1	A	1	A	1	A	1	A	appreciated	A
2	F	1	B	2	F	2	F	appreciated	F
3	H	1	D	3	H	3	H	ambitendent	D
4	G	2	C	4	G	4	D	ambitendent	E
5	D	3	E	5	D	5	E	ambitendent	H
5	E	3	F	5	E	5	G	marginal	G
6	C	3	H	6	B	6	B	disliked	B
7	B	4	G	7	C	6	C	disliked	C

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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DEMO | GROUP 1 **SOCIOGRAM STATISTICS**

Type I cohesion index : 28.57% *Type II cohesion index : 0.25*
Type I conflitct index : 50.00% *Type II conflitct index : 0.50*

ID	Count	Sum	Median	IQR	Mean	SD	Min	P25	P50	P75	Max
Received preferences	8.0	14.0	1	1	1.75	1.67	0	0	1	2	5
Received rejections	8.0	16.0	1	2	2.00	1.85	0	0	1	3	5
Given Preferences	8.0	14.0	2	0	1.75	0.71	0	2	2	2	2
Given rejections	8.0	16.0	2	0	2.00	0.00	2	2	2	2	2
Mutual preferences	8.0	4.0	0	1	0.50	0.76	0	0	0	1	2
Mutual rejections	8.0	8.0	1	0	1.00	0.76	0	0	1	1	2
Balance	8.0	-2.0	0	3	-0.25	3.33	-5	-1	0	1	5
Orientation	8.0	-2.0	0	0	-0.25	0.71	-2	0	0	0	0
Impact	8.0	30.0	3	2	3.75	1.16	2	3	3	5	5
Affiliation index	8.0	-4.0	0	3	-0.50	3.70	-6	-2	0	1	5
Influence index	8.0	18.0	1	2	2.25	2.38	0	0	1	3	7

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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