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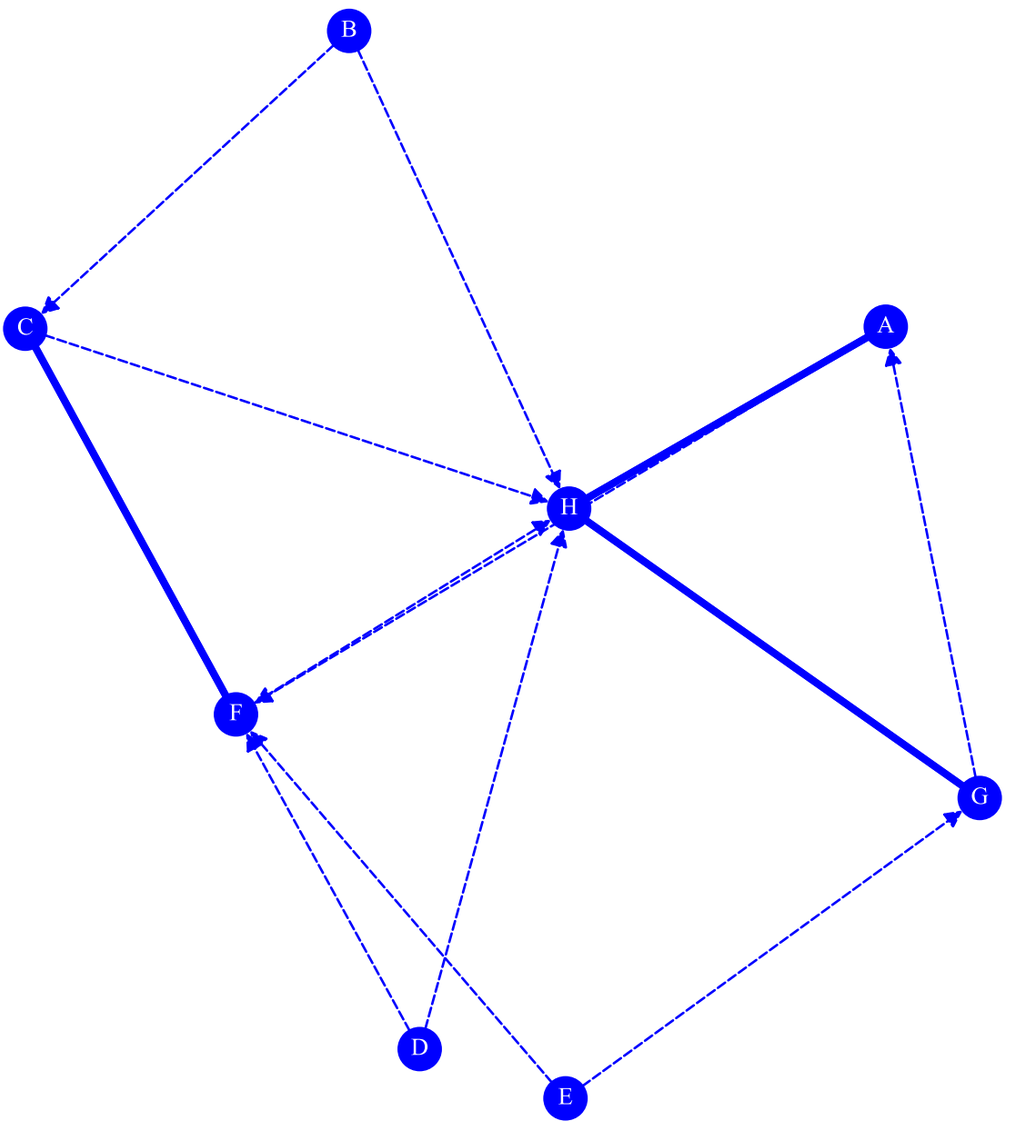
DEMO | GROUP 3 **SNA NETWORK GRAPH**

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

NN 8, **NE** 16, **ND** 29%, **NC** 52%, **NT** 50%, **NR** 38%



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

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DEMO | GROUP 3 **SNA RAW SCORES**

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

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	F, H	0.29	0.22	0.10	0.58	0.17	
B	C, H	0.00	0.02	0.00	0.00	0.13	←
C	F, H	0.29	0.10	0.02	0.50	0.17	
D	F, H	0.00	0.02	0.00	0.00	0.17	←
E	F, G	0.00	0.02	0.00	0.00	0.08	←
F	C, H	0.57	0.17	0.13	0.70	0.13	
G	A, H	0.29	0.16	0.04	0.58	0.12	
H	A, G	0.86	0.31	0.21	0.88	0.03	

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 3 **SNA RANK SCORES**

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

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

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 3 **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	H	1	H	1	H	1	H	1	A
2	F	2	A	2	F	2	F	1	C
3	A	3	F	3	A	3	A	1	D
3	C	4	G	4	G	3	G	2	B
3	G	5	C	5	C	4	C	2	F
4	B	6	B	6	B	5	B	3	G
4	D	6	D	6	D	5	D	4	E
4	E	6	E	6	E	5	E	5	H

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

Reciprocal edges

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

A · H | C · F | G · 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

B · H | D · F | D · H | G · 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

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

Strongly Connected Groups

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

5 A · C · 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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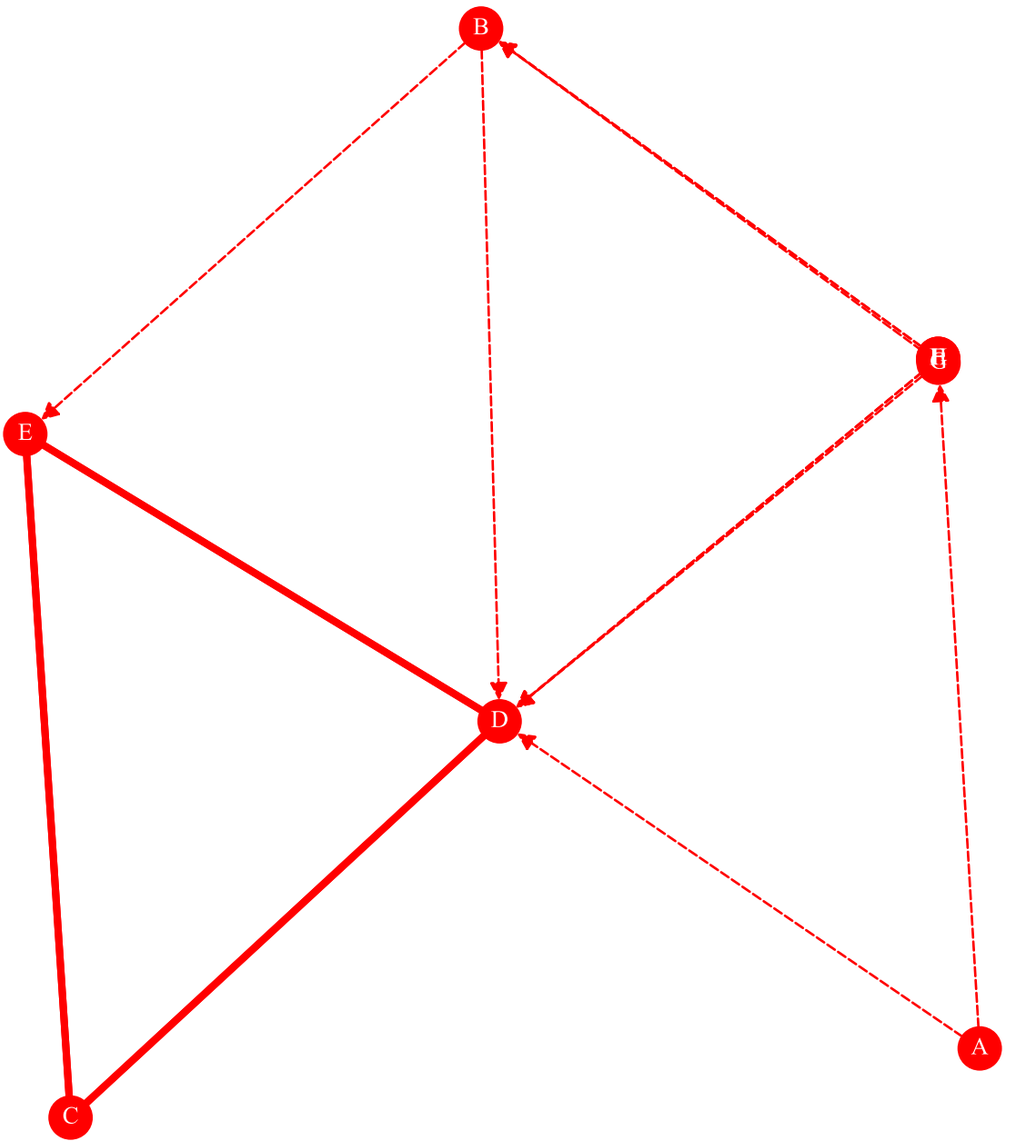
DEMO | GROUP 3 **SNA NETWORK GRAPH**

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

NN 8, **NE** 16, **ND** 29%, **NC** 71%, **NT** 75%, **NR** 38%



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

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DEMO | GROUP 3 **SNA RAW SCORES**

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

ID	CHOICES	IC	PR	BT	CL	HU	ND
A	D, G	0.00	0.02	0.00	0.00	0.11	←
B	D, E	0.43	0.05	0.04	0.46	0.14	
C	D, E	0.29	0.27	0.00	0.58	0.14	
D	C, E	1.00	0.31	0.17	1.00	0.05	
E	C, D	0.43	0.29	0.01	0.64	0.12	
F	B, D	0.00	0.02	0.00	0.00	0.15	←
G	B, D	0.14	0.03	0.02	0.14	0.15	
H	B, D	0.00	0.02	0.00	0.00	0.15	←

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 3 **SNA RANK SCORES**

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

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

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

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

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

Reciprocal edges

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

C · D | C · E | D · E

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

Strongly Connected Groups

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

3 C · D · E

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 3 **SOCIOGRAM**

ID	RP	RR	GP	GR	MP	MR	BL	OR	IM	AC	IC	ST
A	2	0	2	2	1	0	2	0	2	2	3	marginal
B	0	3	2	2	0	0	-3	0	3	-3	0	marginal
C	2	2	2	2	1	2	0	0	4	0	3	-
D	0	7	2	2	0	2	-7	0	7	-7	0	rejected
E	0	3	2	2	0	2	-3	0	3	-3	0	marginal
F	4	0	2	2	1	0	4	0	4	4	5	popular
G	2	1	2	2	1	0	1	0	3	1	3	marginal
H	6	0	2	2	2	0	6	0	6	6	8	popular

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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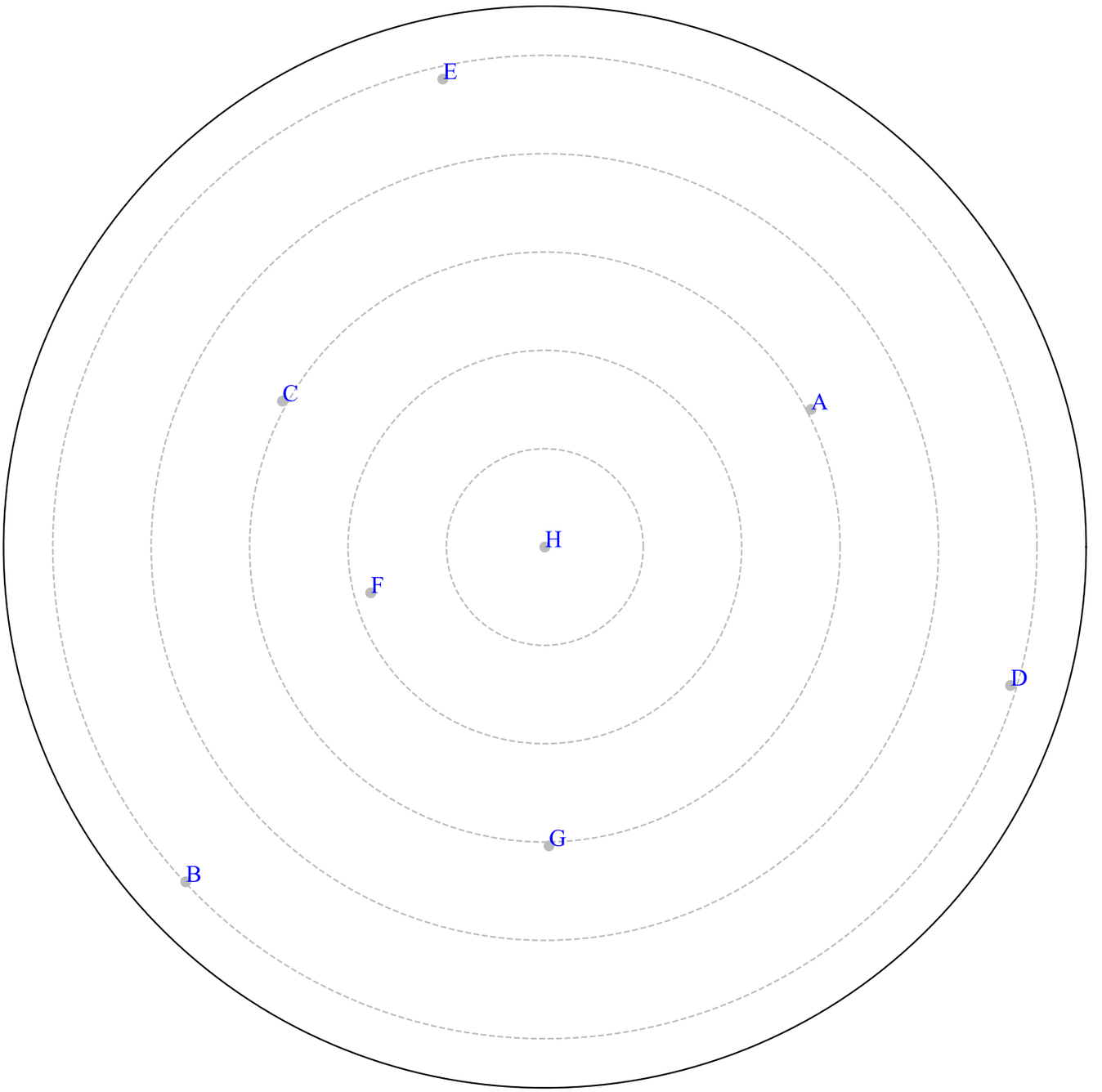
DEMO | GROUP 3 **SOCIOGRAM**

Influence coefficient



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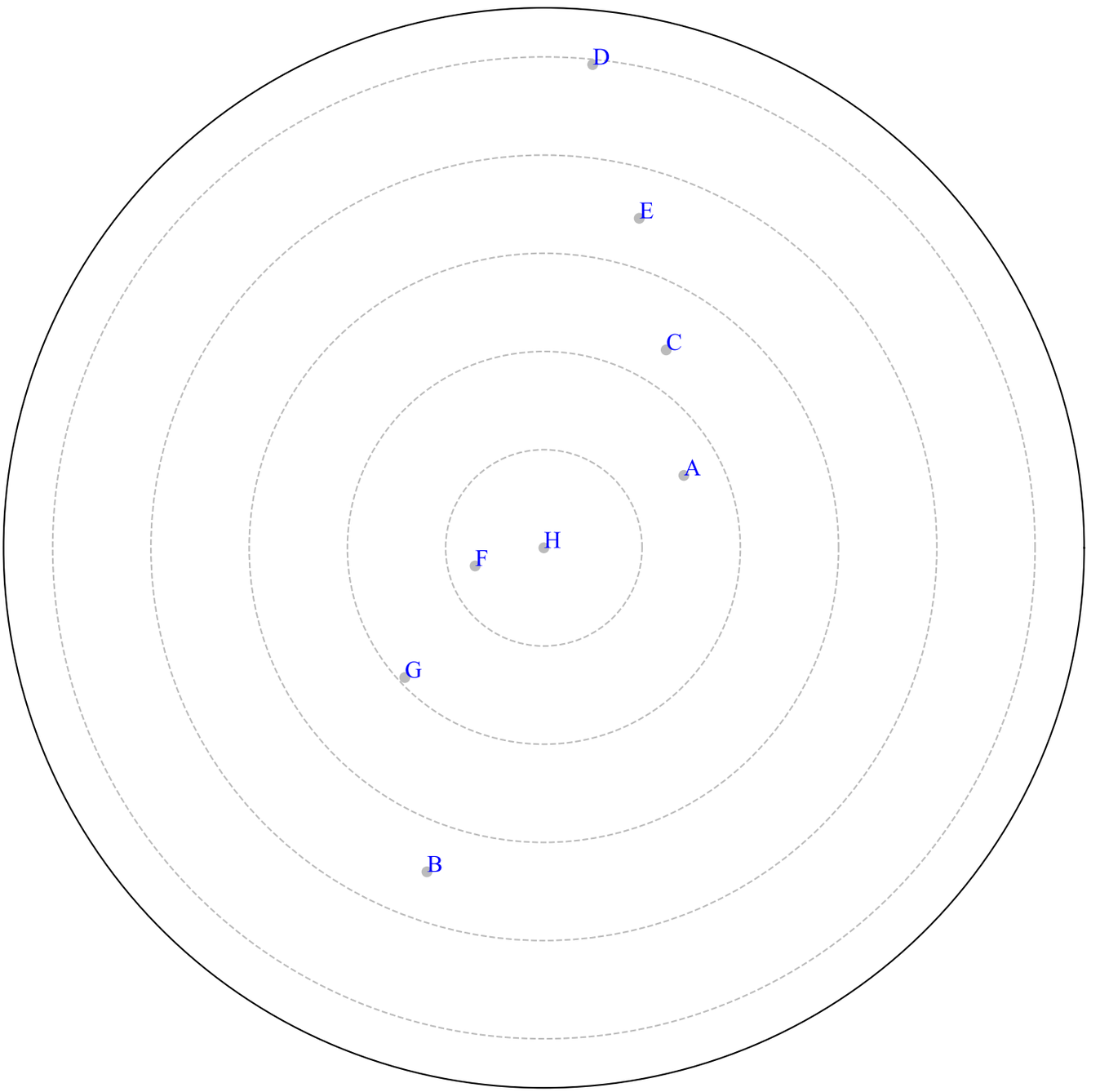
DEMO | GROUP 3 **SOCIOGRAM**

Affiliation coefficient



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DEMO | GROUP 3 **SOCIOGRAM NODES ORDERED BY RANKS**

RANK	RP	RANK	RR	RANK	GP	RANK	GR	RANK	BL	RANK	IM	RANK	AC	RANK	IC
1	H	1	D	1	A	1	A	1	H	1	D	1	H	1	H
2	F	2	B	1	B	1	B	2	F	2	H	2	F	2	F
3	A	2	E	1	C	1	C	3	A	3	C	3	A	3	A
3	C	3	C	1	D	1	D	4	G	3	F	4	G	3	C
3	G	4	G	1	E	1	E	5	C	4	B	5	C	3	G
4	B	5	A	1	F	1	F	6	B	4	E	6	B	4	B
4	D	5	F	1	G	1	G	6	E	4	G	6	E	4	D
4	E	5	H	1	H	1	H	7	D	5	A	7	D	4	E

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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DEMO | GROUP 3 **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	Sum	Median	IQR	Mean	SD	Min	P25	P50	P75	Max
Received preferences	8	16	2	2	2.00	2.14	0	0	2	2	6
Received rejections	8	16	1	3	2.00	2.39	0	0	1	3	7
Given Preferences	8	16	2	0	2.00	0.00	2	2	2	2	2
Given rejections	8	16	2	0	2.00	0.00	2	2	2	2	2
Mutual preferences	8	6	1	1	0.75	0.71	0	0	1	1	2
Mutual rejections	8	6	0	2	0.75	1.04	0	0	0	2	2
Balance	8	0	0	5	0.00	4.21	-7	-3	0	2	6
Orientation	8	0	0	0	0.00	0.00	0	0	0	0	0
Impact	8	32	3	1	4.00	1.69	2	3	3	4	7
Affiliation coefficient raw	8	0	0	5	0.00	4.21	-7	-3	0	2	6
Influence coefficient raw	8	22	3	3	2.75	2.82	0	0	3	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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