

SNA 17-18 - Centrality exercises

EXERCISE1

Ucinet data set:KNOKE BUREAUCRACIES (KNOKBUR)

UCINET DATASET KNOKBUR

DESCRIPTION Two 10x10 matrices

- **KNOKM non-symmetric, binary.**
- **KNOKI non-symmetric, binary**

BACKGROUND In 1978, Knoke & Wood collected data from workers at 95 organizations concerned with social welfare issues in Indianapolis. Respondents indicated with which other organizations(private firms, governmentnal agencies, voluntary organisations) their own organization had any of 13 different types of relationships in the last 2 years

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Knoke and Kuklinski (1982) selected a subset of 10 organizations and two relationships

information exchange in KNOKI.

Q: To and from which organisations did the respondent's organization send or receive "information about community affairs"

Money exchange is recorded in KNOKM,

- Q: To and from which organisations did the respondent's organization give or receive "money or other material resources "

Knoke D. and Wood J. (1981). Knoke D. and Kuklinski J. (1982)

Attributes of these organisations: here we concentrate on sector

TABLE I
Indianapolis Organizations Used in Network Examples

Organization Name	Symbol		Sector*	Influence Reputation
City/County Council	COUN	1	GOV	5.80
Chamber of Commerce	COMM	0	VOL	5.80
Board of Education	EDUC	1	GOV	4.75
Local Industries	INDU	0	PVT	5.38
Mayor's Office	MAYO	1	GOV	5.86
Women's Rights Organization	WRO	0	VOL	2.50
Star-News	NEWS	0	PVT	6.40
United Way	UWAY	0	VOL	5.94
Welfare Department	WELF	1	GOV	4.60
Westend Organization	WEST	0	VOL	3.50

*GOV = government; VOL = voluntary; PVT = private profit making.

Exercise 1 – knoke brureaucracies:

Who are the actors with the highest centrality (in each measure)?
(check the substantive meaning of each centrality measure in class slides)

Do the actors with the top centrality (in each measure) in the information exchange matrix are the same as the one in the money exchange matrix?

What can you say about the importance on governmental vs non governmental organisations in the intervention on social welfare ?

Exercise 2 – centrality measures of your ego network

Data set: your ego network

3 centrality measures

- Who are the top 5 individuals in each measure?
- Who are the bottom 5 individuals in each measure
- Characterise them based on some attribute you find relevant such i.e. their age, their geographic relation, their relation (family, etc), their social support

Comment on this.

- Did you expect these results ? why are those individuals in such position in the network?
- Since this is your personal network what does it mean to you – concerning the information, opportunities, social support existent in your personal network
 - What do these results mean for the quantity/quality of social support you get? or the quantity/quality of information you receive? or the opportunities arising? or other comment that may arise

Exercise 1& 2 - centrality measures send your work today -3rd may

Send text outputs and your comments (max half page per exercise) to the class e-mail