
ADVANCES IN NETWORK CLUSTERING AND BLOCKMODELING

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ACRONYMS

SNA	Social Network Analysis
WoS	Web of Science



SYMBOLS

\mathbb{N}	set of natural numbers; $0 \in \mathbb{N}$; \mathbb{N}
\mathbb{Z}	set of integers; \mathbb{Z}
\mathbb{R}	set of reals; \mathbb{R}
\mathcal{N}	network; $\mathcal{N} = (\mathcal{V}, \mathcal{L}, w)$; \Network
\mathcal{V}	set of nodes (vertices); \Nodes
\mathcal{L}	set of links; $\mathcal{L} = \mathcal{E} \cup \mathcal{A}$; \Links
\mathcal{E}	set of edges (undirected links); \Edges
\mathcal{A}	set of arcs (directed links); \Arcs
n	number of nodes; $n = \mathcal{V} $
m	number of links; $m = \mathcal{L} $
$(u: v)$	edge with end-nodes u and v ; $(u: v) = (v: u)$; \edge{u}{v}
(u, v)	arc leading from node u to node v ; \arc{u}{v}
C	partition, clustering; \cling
indeg	input degree; \indeg
outdeg	output degree; \outdeg
argmin	argument at which minimum is attained; \argmin



CHAPTER 8

PARTITIONING SIGNED NETWORKS

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8.1 introduction

[1]

[3; 5; 4]. [4]

[2]

Bibliography

1. J. De Haan. Authorship patterns in dutch sociology. *Scientometrics*, 39(2):197–208, 1997.
2. A. Ferligoj and L. Kronegger. Clustering of Attribute and/or Relational Data. *Metodološki Zvezki (Advances in Methodology and Statistics)*, 6(2):135–153, 2009.
3. J. S. Katz and B. R. Martin. What is research collaboration? *Research policy*, 26:1–18, 1997.
4. G. Laudel. What do we measure by co-authorship? *Research Evaluation*, 11(1):3–15, 2002.

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5. G. Melin and O. Persson. Studying research collaboration using co-authorship. *Scientometrics*, 36(3):363–377, 1996.

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