Notation

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The following symbols, abbreviations, and conventions are used throughout the book.

Mathematical notation

Symbol	Meaning
c_i	Citations received by paper i
N	Number of papers in a corpus
h	Hirsch index (h-index)
g	g-index
MNCS	Mean normalised citation score
$\bar{x}$	Sample mean
$\tilde{x}$	Sample median
G	Graph (V, E) — vertices and edges
k_v	Degree of vertex v
$B(v)$	Betweenness centrality of vertex v

Abbreviations

Acronym	Expansion
API	Application Programming Interface
DOI	Digital Object Identifier
FWCI	Field-Weighted Citation Impact
JIF	Journal Impact Factor
MNCS	Mean Normalised Citation Score
NMI	Normalised Mutual Information
OA	Open Access
ORCID	Open Researcher and Contributor ID
ROR	Research Organization Registry
RRID	Research Resource Identifier
SCI	Science Citation Index
SDG	Sustainable Development Goal
WoS	Web of Science

Code-style conventions

- Object names describe what they are (`effect_sizes`), not how they were produced (`df2`).
- Pipes use the base `|>`. Tidyverse verbs are preferred over base R where readability favours them.
- Network objects use `igraph` representations unless explicitly stated.
- Random seeds are set per chapter; the global default is `42`.