Handbook of Bibliometric Indicators. Quantitative Tools for Studying and Evaluating Research

Description: At last, the first systematic guide to the growing jungle of citation indices and other bibliometric indicators.

Written with the aim of providing a complete and unbiased overview of all available statistical measures for scientific productivity, the core of this reference is an alphabetical dictionary of indices and other algorithms used to evaluate the importance and impact of researchers and their institutions. In 150 major articles, the authors describe all indices in strictly mathematical terms without passing judgement on their relative merit. From widely used measures, such as the journal impact factor or the h-index, to highly specialized indices, all indicators currently in use in the sciences and humanities are described, and their application explained. The introductory section and the appendix contain a wealth of valuable supporting information on data sources, tools and techniques for bibliometric and scientometric analysis – for individual researchers as well as their funders and publishers.

Contents:

User's Guide

Notations and symbols

Introduction

DICTIONARY

A: aARCA index to axiomatic approaches to bibliometric indicators

B: Balanced Citation Count to byline

C: Carbon—h-factor to cyclomatic number

D: database citation potential to dynamic discounted cumulated impact

E: ECR (expected citation rate) to External Journal Impact Factor

F: Faculty Member Score to fuzzy academic performance index

G: Garfield Factor to GWD (generalized Waring distribution)

H: harmonic author count to h-type indices

I: I3 (Integrated Impact Indicator) to iteratively weighted indices

J: Jaccard–Tanimoto coefficient to Journal Paper Productivity

K: Kaur h–index to Kullback–Leibler relative entropy

L: Lagrange distance to L–W (Liberman-Wolf) bonding number

M: Mahalanobis distance to mutual entropy

N: negentropy to NWDC (Normalized Weighted Direct Citations)

O: OA (open access) to overall interactivity

P: PageRank to PY/CY diagrams

Q: q–index to quasity
R: Ramirez-García-Del Rio renormalized impact factor to Rw indicator
S: SALSA to synchronous journal diffusion factors
T: Taber c-index to TZS (total Z-score)
U: U-Class journals to utility index
V: Vantage Point to VOSViewer
W: WAI (weighted affinity index) to Wu-index
X: x-index
Y: yearly h-index to Yule-Simpson effect
Z: zero-order h-index to z test

Bibliography

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