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experts, discuss theoretical and methodological issues, illustrate applications, highlight their policy context and relevance, and point to future research directions. A substantial portion of the book is dedicated to detailed descriptions and analyses of data sources, presenting both traditional and advanced approaches. It addresses the main bibliographic metrics and indexes, such as the journal impact factor and the h-index, as well as almetric and webometric indicators and science mapping techniques on different levels of aggregation and in the context of their value for the assessment of research performance as well as their impact on research policy and society. It also presents and critically discusses various national research evaluation systems. Complementing the sections reflecting on the science system, the technology section includes multiple chapters that explain different aspects of patent statistics, patent classification and database search methods to retrieve patent-related information. In addition, it examines the relevance of trademarks and standards as additional technological indicators. The Springer Handbook of Science and Technology Indicators is an invaluable resource for practitioners, scientists and policy makers wanting a systematic and thorough analysis of the potential and limitations of the various approaches to assess research and research performance.

The Handbook of Global Science, Technology, and Innovation Daniele Archibugi 2015-09-28 "Provides a state-of-the-art overview of science, technology, and innovation in the context of globalization and global policy"--

Rankings and the Reshaping of Higher Education Ellen Hazelkorn 2015-03-23 University rankings have gained popularity around the world and are now a significant factor shaping reputation. This second edition updates Ellen Hazelkorn’s first comprehensive study of rankings from a global perspective, drawing in new original research and extensive analysis. It is essential reading for policymakers, managers and scholars.

Incentives and Performance Isabell M. Welpe 2014-11-07 This book contributes to the current discussion in society, politics and higher education on innovation capacity and the financial and non-financial incentives for researchers. The expert contributions in the book deal with implementation of incentive systems at higher education institutions in order to foster innovation. On the other hand, the book also discusses the extent to which governance structures from economy can be transferred to universities and how scientific performance can be measured and evaluated. This book is essential for decision-makers in knowledge-intensive organizations and higher-educational institutions dealing with the topic of performance management.

Theories of Informetrics and Scholarly Communication Cassidy R. Sugimoto 2016-02-22 Scientometrics have become an essential element in the practice and evaluation of science and research, including both the evaluation of individuals and national assessment exercises. Yet, researchers and practitioners in this field have lacked clear theories to guide their work. As early as 1981, then doctoral student Blaise Cronin published "The need for a theory of citing" —a call to arms for the fledgling scientometric community to produce foundational theories upon which the work of the field could be based. More than three decades later, the time has come to reach out the field again and ask how they have responded to this call. This book compiles the foundational theories that guide informetrics and scholarly communication research. It is a much needed compilation by leading scholars in the field that gathers together the theories that guide our understanding of authorship, citing, and impact.

Rankings and Accountability in Higher Education: Uses and Misuses Priscilla Toka Mmantseta Marope 2013 The growing impact of university rankings on public policy and on students choices has stirred controversy worldwide. This unique volume brings together the architects of university rankings and their critics to debate the uses and misuses of existing rankings. With voices from five continents, it provides a comprehensive overview of current thinking on the subject and sets out alternative approaches and complementary tools for a new era of transparent and informed use of higher education ranking tables.

The Metric Tide James Wilsdon 2016-01-20 ‘Represents the culmination of an 18-month-long project that aims to be the definitive review of this important topic. Accompanied by a scholarly literature review, some new analysis, and a wealth of evidence and insight... the report is a tour de force; a once-in-a-generation opportunity to take stock.’ - Dr Steven Hill, Head of Policy, HEFCE, LSE Impact of Social Sciences Blog ‘A must-read if you are interested in having a deeper understanding of research culture, management issues and the range of information we have on this field. It should be disseminated and discussed within institutions, disciplines and other sites of research collaboration.’ - Dr Meera Sabaratnam, Lecturer in International Relations at the School of Oriental and African Studies, University of London, LSE Impact of Social Sciences Blog Metrics evoke a mixed reaction from the research community. A commitment to using data and evidence to inform decisions makes many of us sympathetic, even enthusiastic, about the prospect of granular, real-time analysis of our own activities. Yet we only have to look around us at the blunt use of metrics to be reminded of the pitfalls. Metrics hold real power: they are constitutive of values, identities and livelihoods. How to exercise that power to positive ends is the focus of this book. Using extensive evidence-gathering, analysis and consultation, the authors take a thorough look at potential uses and limitations of research metrics and indicators. They explore the use of metrics across different disciplines, assess their potential contribution to the development of research excellence and impact and consider the changing ways in which universities are using quantitative indicators in their management systems. Finally, they consider the negative or unintended effects of metrics on various aspects of research culture. Including an updated introduction from James Wilsdon, the book proposes a framework for responsible metrics and makes a series of targeted recommendations to show how responsible metrics can be applied in research management, by funders, and in the next cycle of the Research Excellence Framework. The metric tide is certainly rising. Unlike King Canute, we have the agency and opportunity - and in this book, a serious body of evidence - to influence how it washes through higher education and research.

Measuring Scholarly Impact Ying Ding 2014-11-06 This book is an authoritative handbook of current topics, technologies and methodological approaches that may be used for the study of scholarly impact. The included methods cover a range of fields such as statistical sciences, scientific visualization, network analysis, text mining, and information retrieval. The techniques and tools enable researchers to investigate metric phenomena and to assess scholarly impact in new ways. Each chapter offers an introduction to the selected topic and outlines how the topic, technology or methodological approach may be applied to metrics-related research. Comprehensive and up-to-date, Measuring Scholarly Impact: Methods and Practice is designed for researchers and scholars interested in informetrics, scientometrics, and text mining. The hands-on perspective is also beneficial to advanced-level students in fields from computer science and statistics to information science.

Editorial Peer Review Ann C. Weller 2001 This book is the first to provide an in-depth analysis of the peer review process in scholarly publishing. Author Weller offers a systematic review of published studies of editorial peer review in the following broad categories: general studies of rejection rates, studies of editors, studies of authors, and studies of reviewers. The book concludes with an examination of new models of editorial peer review intended to enhance the scientific communication process as it moves from a print to an electronic environment.

Hierarchy Theory Howard Hunt Pattee 1973

Essays of an Information Scientist: 1962-1973 Eugene Garfield 1977

The Evaluation of Research by Scientometric Indicators Peter Vinkler 2010-01-20 Aimed at academics, academic managers and administrators, professionals in scientometrics, information scientists and science policy makers at all levels. This book reviews the principles, methods and indicators of scientometric evaluation of information processes in science and assessment of the publication activity of individuals, teams, institutes and countries. It provides scientists, science officers, librarians and students with basic and advanced knowledge on evaluative scientometrics. Especially great stress is laid on the methods applicable in practice and on the clarification of quantitative aspects of impact of scientific publications measured by citation indicators. Written by a highly knowledgeable and well-respected scientist in the field Provides practical and realistic quantitative methods for evaluating scientific publication activities of individuals, teams, countries and journals Gives standardized descriptions and classification of the main categories of evaluative scientometrics **Building World-Class Universities** Qi Wang 2013-04-20 Within higher education, world-class universities are commonly regarded as elite research universities and play a critical role in developing a nation’s competitiveness in the global knowledge economy. An increasing number of countries, regions and higher education institutions in different parts of the world have joined the same battle for academic excellence. While emerging countries and their universities make every effort to enhance their capacity and boost their research performance, the academic superpowers endeavour to maintain - if not further improve- their global positions. “Building World-Class Universities: Different Approaches to a Shared Goal” intends to provide an in-depth picture of different approaches in pursuit of the shared goal of developing academic excellence, and to reflect the current trends in this field. Divided into three parts, the book covers: • building world-class universities from a national/regional perspective, • managing world-class universities from an institutional perspective, and • measuring world-class universities from a ranking/indicator perspective. This book not only represents a contribution to the ongoing discussion on the topic of building world-class universities, but can be seen as a continuation of the previous three volumes on this topic - “World-Class Universities and Ranking: Aiming beyond Status”, “The World-Class University as Part of a New Higher Education Paradigm: From Institutional Qualities to Systemic Excellence”, and “Paths to a World-Class University: Lessons from Practices and Experiences”. All four books will be useful readings for students and academics in higher education generally, in addition to policy makers and informed practitioners.

Multidimensional Journal Evaluation Stefanie Haustein 2012-04-26 Scientific communication depends primarily on publishing in journals. The most important indicator to determine the influence of a journal is the Impact Factor. Since this factor only measures the average number of citations per article in a certain time window, it can be argued that it does not reflect the actual value of a periodical. This book defines five dimensions, which build a framework for a multidimensional method of journal evaluation. The author is winner of the Eugene Garfield Doctoral Dissertation Scholarship 2011.

Beyond Bibliometrics Blaise Cronin 2014-05-16 A comprehensive, state-of-the-art examination of the changing ways we measure scholarly performance and research impact.

Scientometric Indicators Tibor Braun 1985 After a brief account of the recent trends in science indicators research, the authors propose a coherent system of scientometric indicators. These indicators are based on the publication performance of each country in 8 science fields and reflect the versatility of the impact of the publication activity in the country in question. The special aim of the indicator system is to characterize and compare the contribution of research-intensive, medium-sized and small countries to the world’s overall scientific research activity. Indicator values for 32 such countries are reported and evaluated. Relations to other economic, social and science indicators are discussed. This book is intended both as a data source and an analytic tool for specialists engaged in science policy, science management, science indicators research, scientometrics and other areas of science as well as a tool for practising research scientists.

Computational Linguistics and Intelligent Text Processing Alexander Gelbukh 2014-04-18 This two-volume set, consisting of LNCS 8403 and LNCS 8404, constitutes the thoroughly refereed proceedings of the 14th International Conference on Intelligent Text Processing and Computational Linguistics, CICLing 2014, held in Kathmandu, Nepal, in April 2014. The 85 revised papers presented together with 4 invited papers were carefully reviewed and selected from 300 submissions. The papers are organized in the following topical sections: lexical resources; document representation; morphology, POS-tagging, and named entity recognition; syntax and parsing; anaphora resolution; recognizing textual entailment; semantics and discourse; natural language generation; sentiment analysis and emotion recognition; opinion mining and social networks; machine translation and multilingualism; information retrieval; text classification and clustering; text summarization; plagiarism detection; style and spelling checking; speech processing; and applications.

Scholarship in the Digital Age Christine L. Borgman 2010-08-13 An exploration of the technical, social, legal, and economic aspects of the scholarly infrastructure needed to support research activities in all fields in the twenty-first century. Scholars in all fields now have access to an unprecedented wealth of online information, tools, and services. The Internet lies at the core of an information infrastructure for distributed, data-intensive, and collaborative research. Although much attention has been paid to the new technologies making this possible, from digitized books to sensor networks, it is the underlying social and policy changes that will have the most lasting effect on the scholarly enterprise. In Scholarship in the Digital Age, Christine Borgman explores the technical, social, legal, and economic aspects of the kind of infrastructure that we should be building for scholarly research in the twenty-first century. Borgman describes the roles that information technology plays at every stage in the life cycle of a research project and contrasts these new capabilities with the relatively stable system of scholarly communication, which remains based on publishing in journals, books, and conference proceedings. No framework for the impending “data deluge” exists comparable to that for publishing. Analyzing scholarly practices in the sciences, social sciences, and humanities, Borgman compares each discipline’s approach to infrastructure issues. In the process, she challenges the many stakeholders in the scholarly infrastructure—scholars, publishers, libraries, funding agencies, and others—to look beyond their own domains to address the interaction of technical, legal, economic, social, political, and disciplinary concerns. Scholarship in the Digital Age will provoke a stimulating conversation among all who depend on a rich and robust scholarly environment.

The Challenge of Scientometrics Loet Leydesdorff 2001 Scientometrics—the quantitative study of scientific communication—challenges science and technology studies by demonstrating that organized knowledge production and control is amenable to measurement. First, the various dimensions of the empirical study of the sciences are clarified in a methodological analysis of theoretical traditions, including the sociology of scientific knowledge and neo-conventionalism in the philosophy of science. Second, the author argues why the mathematical theory of communication enables us to address crucial problems in science and technology studies, both on the qualitative side (e.g., the significance of a reconstruction) and on the quantitative side (e.g., the prediction of indicators). A comprehensive set of probabilistic entropy measures for studying complex developments in networks is elaborated. In the third part of the study, applications to S&T policy questions (e.g., the emergence of a European R&D system), to problems of (Bayesian) knowledge representations, and to the study of the sciences in terms of ‘self-organizing’ paradigms of scientific communication are provided. A discussion of directions for further research concludes the study.

Library and Information Sciences Chuanfu Chen 2014-09-30 This book explores the development, trends and research of library and information sciences (LIS) in the digital age. Inside, readers will find research and case studies written by LIS experts, educators and theorists, most of whom have visited China, delivered presentations there and drafted their articles based on feedback they received. As a result, readers will discover the LIS issues and concerns that China and the international community have in common. The book first introduces the opportunities and challenges faced by the library and information literacy profession and discusses the key role of librarians in the future of information literacy education. Next, it covers trends in LIS education by examining the vision of the iSchool movement and detailing its practice in Syracuse University. The book then covers issues in information seeking and retrieval by showing how visual data mining technology can be used to detect the relationship and pattern between terms on the Q&A of a social media site. It also includes a case study regarding tracing information seeking behavior and usage on a multimedia website. Next, the book stresses the importance of building an academic accreditation framework for scientific datasets, explores the relationship between bibliometrics and university rankings, and details the birth and development of East Asian Libraries in North America. Overall, the book offers readers insight into the changing nature of LIS, including the electronic dissemination of information, the impact of the Internet on libraries, the changing responsibilities of library professionals, the new paradigm for evaluating information, and characteristics and functions of today’s library personnel.