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Research Management: Europe and Beyond addresses the myriad responsibilities related to research management and administration. The book incorporates narratives from those working in the field to provide insight into the profession. The book also offers a unique perspective on the topic by incorporating global perspectives to address the growing interdisciplinary nature of research collaboration. The book outlines practical advice for those in the research management and administration profession at all levels of experience. It is also a useful tool that research institutions and research groups can use to assist in planning and streamlining their research support. Offers a deeper understanding of the research management and administrative landscape through single and collective definitions and experiences Provides an overview of the research environment and explores the international research arena Discusses some of the most complex issues in research management and administration by covering topics such as ethics, innovation, research impact, organizational structures, and processes for the project life cycle 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. Scientometrics have become an essential element in the

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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.

Updated to reflect the new features of Stata 11, *A Gentle Introduction to Stata, Third Edition* continues to help new Stata users become proficient in Stata. After reading this introductory text, you will be able to enter, build, and manage a data set as well as perform fundamental statistical analyses. New to the Third Edition A new chapter on the analysis of missing data and the use of multiple-imputation methods Extensive revision of the chapter on ANOVA Additional material on the application of power analysis The book covers data management; good work habits, including the use of basic do-files; basic exploratory statistics, including graphical displays; and analyses using the standard array of basic statistical tools, such as correlation, linear and logistic regression, and parametric and nonparametric tests of location and dispersion. Rather than splitting these topics by their Stata implementation, the material on graphics and postestimation are woven into the text in a natural fashion. The author teaches Stata commands by using the menus and dialog boxes while still stressing the value of do-files. Each

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chapter includes exercises and real data sets are used throughout.

This new ASIST monograph is the first to comprehensively address the history, theory, and practical applications of citation analysis, a field which has grown from Garfield's seed of an idea, and to examine its impact on scholarly research forty years after its inception. In bringing together the analyses, insights, and reflections of more than thirty-five leading lights, editors Cronin and Atkins have produced both a comprehensive survey of citation indexing and its applications and a beautifully-realized tribute to Eugene Garfield and his vision, in honor of his seventy-fifth birthday. Dissertation Discovery Company and University of Florida are dedicated to making scholarly works more discoverable and accessible throughout the world. This dissertation, "The Relationship Between Leader Behaviors and Characteristics and School Culture" by Constance A. Hall, was obtained from University of Florida and is being sold with permission from the author. A digital copy of this work may also be found in the university's institutional repository, IR@UF. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation.

This book brings together many of the worlds leading open access experts to provide an analysis of the key strategic, technical and economic aspects on the topic of open access. Open access to research papers is perhaps a defining debate for publishers, librarians, university managers and many researchers within the international academic community. Starting with a description of the current situation and its shortcomings, this book then defines the varieties of open access and addresses some of the many misunderstandings to which the term sometimes gives rise. There are chapters on the technologies involved, researchers, perspectives, and

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the business models of key players. These issues are then illustrated in a series of case studies from around the world, including the USA, UK, Netherlands, Australia and India. Open access is a far-reaching shift in scholarly communication, and the book concludes by going beyond today's debate and looking at the kind of research world that would be possible with open access to research outputs. Chapters by leading experts in the field, including Professor Jean-Claude Gu?n, Clifford Lynch, Stevan Harnad, Peter Suber, Charles Bailey, Jr., Alma Swan, Fred Friend, John Shipp and Leo Waaijers Discussion of open access from a wide range of perspectives Country case studies, summarising open access in the USA, UK Netherlands, Australia and India

This comprehensive yet concise book provides a thorough and complete guide to every aspect of managing the peer review process for scientific journals. Until now, little information has been readily available on how this important facet of the journal publishing process should be conducted properly. *Peer Review and Manuscript Management in Scientific Journals* fills this gap and provides clear guidance on all aspects of peer review, from manuscript submission to final decision. *Peer Review and Manuscript Management in Scientific Journals* is an essential reference for science journal editors, editorial office staff and publishers. It is an invaluable handbook for the set-up of new Editorial Offices, as well as a useful reference for well-established journals which may need guidance on a particular situation, or may want to review their current practices. Although intended primarily for journals in science, much of its content will be relevant to other scholarly areas. ?This wonderful work by Dr. Hames can be used as a textbook in courses for both experienced and novice editors, and I trust that it is what Dr. Hames intended when she prepared this beautiful book.

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Every scientific editor should read it.? Journal of Educational Evaluation for Health Professionals, 2008 This book is co-published with the Association of Learned and Professional Society Publishers (ALPSP) (www.alpsp.org) ALPSP members are entitled to a 30% discount on this book. 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.

The 2019 MPDI Writing Prize invited early stage researchers who are not native English speakers to write on the subject of "how research should be

evaluated and how researchers should be rewarded". Six prizes were awarded, however there were many more entries. This book collates many of those entries and contains inspiring, thought-provoking and original viewpoints of open science through the eyes of those conducting research on a daily basis.

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.

In 2006 the National Institutes of Health (NIH) established the Clinical and Translational Science Awards (CTSA) Program, recognizing the need for a new impetus to encourage clinical and translational research. At the time it was very difficult to translate basic and clinical research into clinical and community practice; making it difficult for individual patients and communities to receive its benefits. Since its creation the CTSA Program has expanded, with 61 sites spread across the nation's academic health centers and other institutions, hoping to provide catalysts and test beds for policies and practices that can benefit clinical and translation research organizations throughout the country. The NIH contracted with the Institute of Medicine (IOM) in 2012 to conduct a study to assess and provide

recommendations on appropriateness of the CTSA Program's mission and strategic goals and whether changes were needed. The study was also address the implementation of the program by the National Center for Advancing Translational Sciences (NCATS) while exploring the CTSA's contributions in the acceleration of the development of new therapeutics. A 13-member committee was established to head this task; the committee had collective expertise in community outreach and engagement, public health and health policy, bioethics, education and training, pharmaceutical research and development, program evaluation, clinical and biomedical research, and child health research. The CTSA Program at NIH: Opportunities for Advancing Clinical and Translational Research is the result of investigations into previous program evaluations and assessments, open-session meetings and conference class, and the review of scientific literature. Overall, the committee believes that the CTSA Program is significant to the advancement of clinical and translational research through its contributions. The Program would benefit from a variety of revisions, however, to make it more efficient and effective.

Can the methods of science be directed toward science itself? How did it happen that scientists, scientific documents, and their bibliographic links came to be regarded as mathematical variables in

abstract models of scientific communication? What is the role of quantitative analyses of scientific and technical documentation in current science policy and management? *Bibliometrics and Citation Analysis: From the Science Citation Index to Cybermetrics* answers these questions through a comprehensive overview of theories, techniques, concepts, and applications in the interdisciplinary and steadily growing field of bibliometrics. Since citation indexes came into the limelight during the mid-1960s, citation networks have become increasingly important for many different research fields. The book begins by investigating the empirical, philosophical, and mathematical foundations of bibliometrics, including its beginnings with the Science Citation Index, the theoretical framework behind it, and its mathematical underpinnings. It then examines the application of bibliometrics and citation analysis in the sciences and science studies, especially the sociology of science and science policy. Finally it provides a view of the future of bibliometrics, exploring in detail the ongoing extension of bibliometric methods to the structure and dynamics of the World Wide Web. This book gives newcomers to the field of bibliometrics an accessible entry point to an entire research tradition otherwise scattered through a vast amount of journal literature. At the same time, it brings to the forefront the cross-disciplinary linkages between the various

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fields (sociology, philosophy, mathematics, politics) that intersect at the crossroads of citation analysis. Because of its discursive and interdisciplinary approach, the book is useful to those in every area of scholarship involved in the quantitative analysis of information exchanges, but also to science historians and general readers who simply wish to familiarize them

A comprehensive, state-of-the-art examination of the changing ways we measure scholarly performance and research impact.

The Metric TideIndependent Review of the Role of Metrics in Research Assessment and ManagementSAGE

This issue of 'Library Technology Reports' introduces the concept of altmetrics in relation to existing citation-based research metrics, positioning its use in the larger academic community. Discussing both the promise and the controversy of altmetrics, the authors offer practical guidance on many topics.

University rankings have gained popularity around the world, and are now a significant factor shaping reputation. This book is the first comprehensive study of rankings from a global perspective, making an important contribution to our understanding of the rankings phenomenon. This book has also been published in Japanese.

This book offers a design research methodology intended to improve the quality of design research- its academic credibility, industrial significance and societal contribution by enabling more thorough, efficient and effective procedures.

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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.

Quantitative studies of science and technology represent the research field of utilization of mathematical, statistical, and data-analytical methods and techniques for gathering, handling, interpreting, and predicting a variety of features of

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the science and technology enterprise, such as performance, development, and dynamics. The field has both strongly developed applied research as well as basic research characteristics. The principal purpose of this handbook is to present this wide range of topics in sufficient depth to give readers a reasonably systematic understanding of the domain of contemporary quantitative studies of science and technology, a domain which incorporates theory, methods and techniques, and applications. In addressing this domain, the handbook aims at different groups of readers: those conducting research in the field of science and technology, including (graduate) students, and those who are to use results of the work presented in this book.

Provides a broad base of quantitative info. about U.S. science, engin., and technology. Because of the spread of scientific and tech. capabilities around the world, this report presents a significant amount of material about these internat. capabilities and analyzes the U.S. position in this broader context. Contains quantitative analyses of key aspects of the scope, quality, and vitality of the Nation's science and engineering (S&E) enterprise. It presents info. on science, math, and engineering. educ. at all levels; the S&E workforce; U.S. internat. R&D perform. and competitiveness in high tech.; and public attitudes and understanding of S&E. Also info. on state-level S&E indicators. Presents the key themes emerging from these analyses. Illus.

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

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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

Explains numerous informetric regularities based on a decreasing power law as size-frequency function, i.e. Lotka's law. It revives the historical formulation of Alfred Lotka of 1926 and shows the power of this power law, both in classical aspects of informetrics (libraries, bibliographies) and in 'new' applications such as social networks.

A conceptual view of citation indexing; A historical view of citation indexing; The design and production of a citation index; The application of citation indexing to the patent literature; The citation index as a search tool; A science management tool; Citation analysis as a method of historical research into science; Mapping the structure of science; Citation analysis of scientific journals; Perspective on citation analysis of scientists.

This handbook offers a state-of-the-art overview of quantitative science and technology research. It focuses on the development and application of indicators derived from data on scientific or scholarly publications and patents. It comprises 34 chapters written by leading specialists in the various sub-domains. These chapters deal with theoretical and methodological issues, illustrate applications, and highlight their policy context and relevance. Authors present a survey of the research

topics they address, and show their most recent achievements. The 34 chapters are arranged into 5 parts: Disciplinary Approaches; General Methodology; The Science System; The Technology System; and The Science–Technology Interface. The Editor’s Introduction provides a further specification of the handbook’s scope and of the main topics addressed in its chapters. This handbook aims at four distinct groups of readers: – practitioners in the field of science and technology studies; – research students in this field; – scientists, scholars and technicians who are interested in a systematic, thorough analysis of their activities; – policy makers and administrators who wish to be informed about the potentialities and limitations of the various approaches and about their results.

Policy makers, academic administrators, scholars, and members of the public are clamoring for indicators of the value and reach of research. The question of how to quantify the impact and importance of research and scholarly output, from the publication of books and journal articles to the indexing of citations and tweets, is a critical one in predicting innovation, and in deciding what sorts of research is supported and whom is hired to carry it out. There is a wide set of data and tools available for measuring research, but they are often used in crude ways, and each have their own limitations and internal logics. *Measuring Research: What Everyone Needs to Know* will provide, for the first time, an accessible account of the methods used to gather and analyze data on research output and impact. Following a brief history of scholarly communication and its

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measurement -- from traditional peer review to crowdsourced review on the social web -- the book will look at the classification of knowledge and academic disciplines, the differences between citations and references, the role of peer review, national research evaluation exercises, the tools used to measure research, the many different types of measurement indicators, and how to measure interdisciplinarity. The book also addresses emerging issues within scholarly communication, including whether or not measurement promotes a "publish or perish" culture, fraud in research, or "citation cartels." It will also look at the stakeholders behind these analytical tools, the adverse effects of these quantifications, and the future of research measurement.

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

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tool for practising research scientists.

‘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

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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.

The book deals with the following topics: informetrics, bibliometrics, scientometrics, descriptive statistics, probability, inferential statistics, sampling, multivariate statistics, operations research, linear programming, integer programming, shortest path algorithm, queueing theory, queuing theory, book circulation, fuzzy set, citation analysis, citation network, citation matrix, bibliographic coupling, co-citation analysis, JCR, Journal Citation Reports, obsolescence, aging, ageing, half-life, synchronous, diachronous, science policy, information production process, IPP, informetric law, success-breeds-success, law of Mandelbrot, law of Zipf, law of Lotka, law of Bradford, law of Leimkuhler, fractal, duality, concentration theory, 80/20 rule, law of Price, concentration measure, law of Pareto, growth, power law, and exponential function.

This handbook presents the state of the art of

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quantitative methods and models to understand and assess the science and technology system. Focusing on various aspects of the development and application of indicators derived from data on scholarly publications, patents and electronic communications, the individual chapters, written by leading 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 altmetric 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

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and research performance.

Unlike previous studies that have used techniques such as citation or co-citation analysis to measure scholarly communication, this book identifies scholarly monography as a primary means of communication in the humanities and social sciences. The diffusion and reception of this means of communication may be measured by examining book reviews in the scholarly journal literature, themselves significant indicators of scholarly communication.

Science maps that can help us understand and navigate the immense amount of results generated by today's science and technology. Cartographic maps have guided our explorations for centuries, allowing us to navigate the world. Science maps have the potential to guide our search for knowledge in the same way, allowing us to visualize scientific results. Science maps help us navigate, understand, and communicate the dynamic and changing structure of science and technology—help us make sense of the avalanche of data generated by scientific research today. Atlas of Science, featuring more than thirty full-page science maps, fifty data charts, a timeline of science-mapping milestones, and 500 color images, serves as a sumptuous visual index to the evolution of modern science and as an introduction to “the science of science”—charting the trajectory from scientific concept to published results. Atlas of Science, based on the popular exhibit, “Places & Spaces: Mapping Science”, describes and displays successful mapping techniques. The heart of the book is a visual feast: Claudius Ptolemy's *Cosmographia* World Map

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from 1482; a guide to a PhD thesis that resembles a subway map; “the structure of science” as revealed in a map of citation relationships in papers published in 2002; a visual periodic table; a history flow visualization of the Wikipedia article on abortion; a globe showing the worldwide distribution of patents; a forecast of earthquake risk; hands-on science maps for kids; and many more. Each entry includes the story behind the map and biographies of its makers. Not even the most brilliant minds can keep up with today's deluge of scientific results. Science maps show us the landscape of what we know.

This book is written for members of the scholarly research community, and for persons involved in research evaluation and research policy. More specifically, it is directed towards the following four main groups of readers: – All scientists and scholars who have been or will be subjected to a quantitative assessment of research performance using citation analysis. – Research policy makers and managers who wish to become conversant with the basic features of citation analysis, and about its potentialities and limitations. – Members of peer review committees and other evaluators, who consider the use of citation analysis as a tool in their assessments. – Practitioners and students in the field of quantitative science and technology studies, informetrics, and library and information science. Citation analysis involves the construction and application of a series of indicators of the ‘impact’, ‘influence’ or ‘quality’ of scholarly work, derived from citation data, i.e. data on references cited in footnotes or bibliographies of scholarly research publications. Such indicators are applied both in the study of scholarly communication and in the assessment of research performance. The term ‘scholarly’ comprises all domains of

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science and scholarship, including not only those fields that are normally denoted as science – the natural and life sciences, mathematical and technical sciences – but also social sciences and humanities.

"Is the university contributing to our global crises or does it offer stories of hope? Much recent debate about higher education has focused upon rankings, quality, financing and student mobility. The COVID-19 pandemic, the climate crisis, the calls for decolonisation, the persistence of gender violence, the rise of authoritarian nationalism, and the challenge of the United Nations Sustainable Development Goals have taken on new urgency and given rise to larger questions about the social relevance of higher education. In this new era of uncertainty, and perhaps opportunity, higher education institutions can play a vital role in a great transition or civilisational shift to a newly imagined world. Socially Responsible Higher Education: International Perspectives on Knowledge Democracy shares the experiences of a broadly representative and globally dispersed set of writers on higher education and social responsibility, broadening perspectives on the democratisation of knowledge. The editors have deliberately sought examples and viewpoints from parts of the world that are seldom heard in the international literature. Importantly, they have intentionally chosen to achieve a gender and diversity balance among the contributors. The stories in this book call us to take back the right to imagine, and 'reclaim' the public purposes of higher education"--

This book presents an introduction to the field of applied evaluative informetrics, dealing with the use of bibliometric or informetric indicators in research assessment. It sketches the field's history, recent achievements, and its potential and limits. The book dedicates special attention to the application context of quantitative research assessment. It describes research assessment as an evaluation science, and

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distinguishes various assessment models, in which the domain of informetrics and the policy sphere are disentangled analytically. It illustrates how external, non-informetric factors influence indicator development, and how the policy context impacts the setup of an assessment process. It also clarifies common misunderstandings in the interpretation of some often used statistics. Addressing the way forward, the book expresses the author's critical views on a series of fundamental problems in the current use of research performance indicators in research assessment. Highlighting the potential of informetric techniques, a series of new features is proposed that could be implemented in future assessment processes. It sketches a perspective on altmetrics and proposes new lines in longer term, strategic indicator research. It is written for interested scholars from all domains of science and scholarship, and especially for all those subjected to research assessment, research students at advanced master and PhD level, research managers, funders and science policy officials, and to practitioners and students in the field.

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

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also beneficial to advanced-level students in fields from computer science and statistics to information science. This book analyses and discusses the recent developments for assessing research quality in the humanities and related fields in the social sciences. Research assessments in the humanities are highly controversial and the evaluation of humanities research is delicate. While citation-based research performance indicators are widely used in the natural and life sciences, quantitative measures for research performance meet strong opposition in the humanities. This volume combines the presentation of state-of-the-art projects on research assessments in the humanities by humanities scholars themselves with a description of the evaluation of humanities research in practice presented by research funders. Bibliometric issues concerning humanities research complete the exhaustive analysis of humanities research assessment. The selection of authors is well-balanced between humanities scholars, research funders, and researchers on higher education. Hence, the edited volume succeeds in painting a comprehensive picture of research evaluation in the humanities. This book is valuable to university and science policy makers, university administrators, research evaluators, bibliometricians as well as humanities scholars who seek expert knowledge in research evaluation in the humanities.

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