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**TREVINO BARTLETT**

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**Springer Handbook of  
Science and**

**Technology Indicators**

Oxford University Press  
Sentient animals,  
machines, and robots

abound in German literature and culture, but there has been surprisingly limited scholarship on non-human life forms in German studies. This volume extends interdisciplinary research in emotion studies to examine non-humans and the affective relationships between humans and non-humans in modern German cultural history. In recent years, fascination with emotions, developments in robotics, and the burgeoning of animal studies in and beyond the

academy have given rise to questions about the nature of humanity. Using sources from the life sciences, literature, visual art, poetry, philosophy, and photography, this collection interrogates not animal or machine emotions per se, but rather uses animals and machines as lenses through which to investigate human emotions and the affective entanglements between humans and non-humans. The COVID-19 pandemic made us more keenly aware of

the importance of both animals and new technologies in our daily lives, and this volume ultimately sheds light on the centrality of non-humans in the human emotional world and the possibilities that relationships with non-humans offer for enriching that world.

CAB Thesaurus IFIS

Publishing

The growth of machines and users of the Internet has led to the proliferation of all sorts of data concerning individuals, institutions, companies,

governments, universities, and all kinds of known objects and events happening everywhere in daily life. Scientific knowledge is not an exception to the data boom. The phenomenon of data growth in science pushes forth as the number of scientific papers published doubles every 9–15 years, and the need for methods and tools to understand what is reported in scientific literature becomes evident. As the number of academicians and innovators swells, so do

the number of publications of all types, yielding outlets of documents and depots of authors and institutions that need to be found in Bibliometric databases. These databases are dug into and treated to hand over metrics of research performance by means of Scientometrics that analyze the toil of individuals, institutions, journals, countries, and even regions of the world. The objective of this book is to assist students, professors, university managers, government,

industry, and stakeholders in general, understand which are the main Bibliometric databases, what are the key research indicators, and who are the main players in university rankings and the methodologies and approaches that they employ in producing ranking tables. The book is divided into two sections. The first looks at Scientometric databases, including Scopus and Google Scholar as well as institutional repositories. The second section examines the application

of Scientometrics to world-class universities and the role that Scientometrics can play in competition among them. It looks at university rankings and the methodologies used to create these rankings. Individual chapters examine specific rankings that include: QS World University Scimago Institutions Webometrics U-Multirank U.S. News & World Report The book concludes with a discussion of university performance in the age of research analytics.

**The Journal of Social Forces** SAGE Publications, Incorporated Support in higher education is an emerging area of great interest to professors, researchers and students in academic institutions. Sustainability in Higher Education provides discussions on the exchange of information between different aspects of sustainability in higher education. This book includes chapter contributions from authors who have provided case studies on

various areas of education for sustainability. Focus on sustainability Present studies in aspects related with higher education Explores a variety of educational aspects from an sustainable perspective

**Little Science, Big Science** Springer Nature Gain valuable insights into the smaller but more personalized work of liberal arts college science librarianship with these interesting and instructive stories. A striking number of outstanding scientists got their initial

encouragement at small liberal arts colleges. Their success is due to both the efforts of their professors and the work of the liberal arts college science librarians who served them assiduously. In *Science Librarianship at America's Liberal Arts Colleges*, science librarians vividly describe the life and times of small liberal arts college science libraries and the workday life of librarians serving scientists from a main campus library. They describe their efforts to defend expensive science

collections in the face of tight budgets, to singlehandedly monitor and select literature in all areas from astronomy through zoology, and to compete with the humanities and social studies for library shelf space. This unique volume is the first to publish prose studies of actual libraries and librarians and provide an intensely personal look at science librarianship at these institutions. The contributing librarians present a range of views on subjects including the

historical motivation for their science libraries, physical descriptions of library layouts, statistics on holdings and purchasing trends for science materials, daily tasks and sense of mission concerning library patrons, use of new technology, and future directions for science libraries at small liberal arts colleges. *Science Librarianship at America's Liberal Arts Colleges* covers a variety of subjects of interest to science librarians at liberal arts colleges,

directors of liberal arts college libraries, and library school graduate students. Some of the major topics discussed include: what working liberal arts college science librarians actually do each day how they sustain the enthusiasm of America's few science majors how they satisfy the library collections and services demands of faculty accustomed to and recruited from the large library facilities of such universities as Harvard or Stanford how they use their smaller collections to

prepare students for the riches of a Johns Hopkins or Duke when students go on to medical school or graduate school why they choose the tensions and challenges of small liberal arts colleges over the better pay and recognition of larger universities and corporations how campus finances, politics, traditions, and geography play a role in establishing a separate science library how to weed, store, and move voluminous science collections how elite, small liberal arts schools

are prioritizing budgets in an age of conversion from print sources to electronic access

FSTA Thesaurus Academic Press

Quantum mechanics can describe the detailed structure and behavior of matter, from electrons, atoms, and molecules, to the whole universe. It is one of the fields of knowledge that yield extraordinary precessions, limited only by the computational resources available. Among these methods is density functional theory (DFT),

which permits one to solve the equations of quantum mechanics more efficiently than with any related method. The present volume represents the most comprehensive summary currently available in density functional theory and its applications in chemistry from atomic physics to molecular dynamics. DFT is currently being used by more than fifty percent of computational chemists.

**The Impact Factor of Scientific and Scholarly Journals** Emerald

Publishing Limited "Bibliometrics and altmetrics are increasingly becoming the focus of interest in the context of research evaluation. The Handbook Bibliometrics provides a comprehensive introduction to quantifying scientific output in addition to a historical derivation, individual indicators, institutions, application perspectives and data bases. Furthermore, application scenarios, training and qualification on bibliometrics and their implications are

considered"--Publisher's website.

The Metric Tide Springer Science & Business Media Textbook on social research methodologies for the evaluation of the social implications of public works - based on USA experience, discusses research methods such as data collecting and surveys; considers demographic aspects and social indicators, participatory research, errors of judgement, etc. Graphs, references, statistical tables.

*Measuring Research*

Springer Nature

This indispensable guide provides a unique insight into the academic profession at a time of major change. It is organized both thematically and geographically with attention given to regions rarely covered, such as China and Latin America. For the first time, here is a book that critically assesses the condition of the professoriate at a time of momentous change when the profession is fracturing along fault lines.

**Animals, Machines, and**

**AI** Springer Science & Business Media

This handbook presents the state of the art of 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 and research performance.

### **Current Research and Development in Scientific Documentation**

IntechOpen

A concise, easy-to-read source of essential tips and skills for writing research papers and career management In order to be truly successful in the biomedical professions, one must have excellent communication skills and networking abilities. Of equal importance is the possession of sufficient clinical knowledge, as well as a proficiency in

conducting research and writing scientific papers. This unique and important book provides medical students and residents with the most commonly encountered topics in the academic and professional lifestyle, teaching them all of the practical nuances that are often only learned through experience. Written by a team of experienced professionals to help guide younger researchers, *A Guide to the Scientific Career: Virtues, Communication, Research and Academic*

*Writing* features ten sections composed of seventy-four chapters that cover: qualities of research scientists; career satisfaction and its determinants; publishing in academic medicine; assessing a researcher's scientific productivity and scholarly impact; manners in academics; communication skills; essence of collaborative research; dealing with manipulative people; writing and scientific misconduct: ethical and legal aspects; plagiarism; research regulations,

proposals, grants, and practice; publication and resources; tips on writing every type of paper and report; and much more. An easy-to-read source of essential tips and skills for scientific research. Emphasizes good communication skills, sound clinical judgment, knowledge of research methodology, and good writing skills. Offers comprehensive guidelines that address every aspect of the medical student/resident academic and professional lifestyle.

Combines elements of a career-management guide and publication guide in one comprehensive reference source Includes selected personal stories by great researchers, fascinating writers, inspiring mentors, and extraordinary clinicians/scientists A Guide to the Scientific Career: Virtues, Communication, Research and Academic Writing is an excellent interdisciplinary text that will appeal to all medical students and scientists who seek to improve their

writing and communication skills in order to make the most of their chosen career.

### **A Guide to the Scientific Career**

Springer Nature  
Urinary tract infection (UTI) is a problem so common and so significant in routine clinical practice that accurate diagnostics are especially important. In particular, complicated UTI is associated with an increased rate of therapy failures, as a result of possible biofilm formation on foreign elements and

antibiotic resistance, as well as the increased possibility of an infection recurrence. These are the arguments for the constant search for novel diagnostic tools and techniques. These and many other vital topics regarding UTI complications, management, and treatment, in addition to antibiotic resistance and bacterial virulence traits allowing us to mitigate or avoid antibiotic action, are presented in this book.

### **Engineering Research**

**Methodology** Psychology Press

This book investigates the neuroscientific knowledge on addiction as an epistemic project.

*Research Analytics*

Philadelphia : ISI Press

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(R) 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 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.

Essays of an Information Scientist: 1962-1973

Walter de Gruyter GmbH & Co KG  
Theoretically, the term "script" appears to be rather ill-defined. This book clarifies the use of the term "script" in education. It approaches the term from at least three perspectives: cognitive psychology perspective, computer science perspective, and an educational perspective. The book provides learners with scripts that support them both in communication/coordination and in higher-order

learning.

**International Journal of Business Analytics (IJBAN).** Oxford University Press, USA  
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.

**Advances in Density Functional Theory** John Wiley & Sons

"As the summary of a vision, the book is brilliant. One can feel the enthusiasm of the authors throughout...I see it as a vehicle for initiating a fruitful dialogue between chemical producers and regulatory enforcers

without the confrontation, which often characterizes such interactions.' ' - Martyn Poliakoff, Green Chemistry, February ' Its is an introductory text taking a broad view and intergrating a wide range of topics including synthetic methodologies, alternative solvents and catalysts, biosynthesis and alternative feedstocks. There are exercises for students and the last chapter deals with future trends' Aslib **Green Chemistry** Chandos Publishing This book provides

readers with a basic understanding of the concepts and methodologies of sustainable aviation. The book is divided into three sections : basic principles the airport side, and the aircraft side. In-depth chapters discuss the key elements of sustainable aviation and provide complete coverage of essential topics including airport, energy, and noise management along with novel technologies, standards and a review of the current literature on green airports,

sustainable aircraft design, biodiversity management, and alternative fuels. Engineers, researchers and students will find the fundamental approach useful and will benefit from the many engineering examples and solutions provided.

### **Urinary Tract Infection**

Springer  
Frontiers in Microbiology is delighted to present the 'Reviews in the Impact of Gut Microbiota in Health and Disease' series of article collections. Reviews in the Impact of

Gut Microbiota in Health and Disease will publish high-quality scholarly review papers on key topics in the Impact of Gut Microbiota in Health and Disease. It aims to highlight recent advances in the field, whilst emphasizing important directions and new possibilities for future inquiries. We anticipate the research presented will promote valuable discussion regarding the impact of gut microbiota in health and disease that will translate to best practice applications in

clinical, public health and policy settings.

### Social Impact Assessment Methods Springer

New methods in bibliometrics and alternative metrics provide us with information about research impact at both increasingly granular and global levels. Here, editor Elaine Lasda and a cast of expert contributors present a variety of case studies that demonstrate the practical utilization of these new scholarly metrics.

Oxford Reviews of

### Reproductive Biology

Frontiers Media SA

'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.