

Citation Analysis in Research Evaluation

Henk F. Moed



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Springer Handbook of Science and Technology Indicators Wolfgang Glänzel, Henk F. Moed, Ulrich Schmoch, Mike Thelwall, 2019-10-30 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

Information Science in Transition Alan Gilchrist, 2009 Are we at a turning point in digital information The expansion of the internet was unprecedented search engines dealt with it in the only way possible scan as much as they could and throw it all into an inverted index But now search engines are beginning to experiment with deep web searching and attention to taxonomies and the Semantic Web is demonstrating how much more can be done with a computer if you give it knowledge What does this mean for the skills and focus of the information science or sciences community Should information designers and information managers work more closely to create computer based information systems for more effective retrieval Will information science become part of computer science and does the rise of the term informatics demonstrate the convergence of information science and

information technology a convergence that must surely develop in the years to come Issues and questions such as these are reflected in this monograph a collection of essays written by some of the most pre eminent contributors to the discipline These peer reviewed perspectives capture insights into advances in and facets of information science a profession in transition With an introduction from Jack Meadows the key papers are Meeting the challenge by Brian Vickery The developing foundations of information science by David Bawden The last 50 years of knowledge organization by Stella G Dextre Clarke On the history of evaluation in IR by Stephen Robertson The information user by Tom Wilson The sociological turn in information science by Blaise Cronin From chemical documentation to chemoinformatics by Peter Willett Health informatics by Peter A Bath Social informatics and sociotechnical research by Elisabeth Davenport The evolution of visual information retrieval by Peter Enser Information policies by Elizabeth Orna Disparity in professional qualifications and progress in information handling by Barry Mahon Electronic scholarly publishing and open access by Charles Oppenheim Social software fun and games or business tools by Wendy A Warr Bibliometrics to webometrics by Mike Thelwall This monograph previously appeared as a special issue of the Journal of Information Science published by Sage Readership Reproduced here as a monograph this important collection of perspectives on a skill in transition from a prestigious line up of authors will now be available to information studies students worldwide and to all those working in the information science field

Handbook of Research on Innovations in Database Technologies and Applications: Current and Future Trends Ferraggine, Viviana E.,Doorn, Jorge Horacio,Rivero, Laura C.,2009-02-28 This book provides a wide compendium of references to topics in the field of the databases systems and applications Provided by publisher *The Anticipation of Converging Industries* Clive-Steven Curran,2013-06-13 The blurring of boundaries between hitherto distinct scientific disciplines technologies or markets is a common and powerful phenomenon Subjects of this convergence often change consumer behaviours favouring products and platforms with multiple functions The Anticipation of Converging Industries provides a detailed focus on the triggers drivers and consequences of convergence to create a more concise definition of convergence This detailed analysis includes a specifically developed toolbox for convergence foresight creating a forecasting method for convergence trends With the focus on the chemical biotechnological and pharmaceutical industries several indicators of convergence in the areas of Nutraceuticals Functional Foods Cosmeceuticals and ICT are derived from samples including over 1million patents and scientific publications By supporting this methodical approach with real world data The Anticipation of Converging Industries is perfect for industry practitioners looking for a competitive edge in the present and for the future Similarly academics will find a comprehensive theoretical concept for better understanding the underlying rationale of convergence at their disposal Transforming Educational Research Gonzalo Jover,Mustafa Yunus Eryaman,Ingrid Gogolin,Liesel Ebersöhn,2025-04-23 In an era marked by both persistent and emerging challenges Transforming Educational Research Realizing Equity and Social Justice Worldwide offers a comprehensive exploration of the

dynamic landscape of education and educational research It delves into the multifaceted issues faced by educators and policymakers worldwide from the disruptions caused by the global pandemic to the rapid integration of digital technologies With contributions from diverse regional theoretical and methodological perspectives this volume provides insights into contemporary educational strategies and practices the crucial role of socio emotional development the transformations occurring in higher education and the impact of global educational policies It is organized into four thematic clusters each addressing a specific dimension of the challenges faced by education systems globally The first cluster focuses on educational strategies and practices examining approaches to creating conducive teaching and learning environments The second cluster highlights the socio emotional dimensions in education emphasizing the importance of fostering emotional well being and cultural understanding The third cluster explores the complexities of higher education particularly in the context of sustainability digital transformation and academic publishing The final cluster delves into policy perspectives in education analyzing the influence of globalization and the implementation of learning theories By fostering dialogue and critical reflection this book offers a rich tapestry of insights into the common challenges faced by education systems worldwide It serves as a valuable resource for educators policymakers researchers and anyone interested in creating equitable inclusive and effective education systems for all

Analysis and Visualization of Citation Networks Dangzhi Zhao, Andreas Strotmann, 2022-06-01 Citation analysis the exploration of reference patterns in the scholarly and scientific literature has long been applied in a number of social sciences to study research impact knowledge flows and knowledge networks It has important information science applications as well particularly in knowledge representation and in information retrieval Recent years have seen a burgeoning interest in citation analysis to help address research management or information service issues such as university rankings research evaluation or knowledge domain visualization This renewed and growing interest stems from significant improvements in the availability and accessibility of digital bibliographic data both citation and full text and of relevant computer technologies The former provides large amounts of data and the latter the necessary tools for researchers to conduct new types of large scale citation analysis even without special access to special data collections Exciting new developments are emerging this way in many aspects of citation analysis This book critically examines both theory and practical techniques of citation network analysis and visualization one of the two main types of citation analysis the other being evaluative citation analysis To set the context for its main theme the book begins with a discussion of the foundations of citation analysis in general including an overview of what can and what cannot be done with citation analysis Chapter 1 An in depth examination of the generally accepted steps and procedures for citation network analysis follows including the concepts and techniques that are associated with each step Chapter 2 Individual issues that are particularly important in citation network analysis are then scrutinized namely field delineation and data sources for citation analysis Chapter 3 disambiguation of names and references Chapter 4 and visualization of citation

networks Chapter 5 Sufficient technical detail is provided in each chapter so the book can serve as a practical how to guide to conducting citation network analysis and visualization studies While the discussion of most of the topics in this book applies to all types of citation analysis the structure of the text and the details of procedures examples and tools covered here are geared to citation network analysis rather than evaluative citation analysis This conscious choice was based on the authors observation that compared to evaluative citation analysis citation network analysis has not been covered nearly as well by dedicated books despite the fact that it has not been subject to nearly as much severe criticism and has been substantially enriched in recent years with new theory and techniques from research areas such as network science social network analysis or information visualization Table of Contents Acknowledgment Dedications Foundations of Citation Analysis Conducting Citation Network Analysis Steps Concepts Techniques and Tools Field Delineation and Data Sources for Citation Analysis Disambiguation in Citation Network Analysis Visualization of Citation Networks Appendix 3 3 Appendix 5 4 2 Bibliography Author Biographies **Social Information Research** Gunilla Widen, Kim Holmberg, 2012-10-19 Social Information Research co edited by Gunilla Widen and Kim Holmberg communicates current research looking into different aspects of social information as part of information behaviour research There is a special emphasis on the new innovations supporting contemporary information behavior and the social media context within which it can sit

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