

International Conference On Scientometrics Issi 2017

This book constitutes revised selected papers from the 11th International Conference on Web Information Systems and Technologies, WEBIST 2015, held in Lisbon, Portugal, May 20-22, 2015, organized by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC), and technically sponsored by the European Research Center for Information Systems (ERCIS). The purpose of the WEBIST series of conferences is to bring together researchers, engineers and practitioners interested in technological advances and business applications of web-based information systems. The 17 full papers presented in this volume were carefully reviewed and selected originally 115 paper submissions. They were organized in topical sections names: web interfaces and applications; internet technology; society, e-business and e-government; web intelligence; and mobile information systems.

Technological change is one of the greatest issues in the modern world. As the world faces societal challenges, e.g., climate challenges, aging problem, and energy security, technology will contribute to new or better solutions for those problems. New technologies take time to develop and mature; moreover, they tend to be born in the gaps of multiple technology fields; therefore, early detection of emerging technological concepts across multiple disciplines will be a very important issue. Our goal seeks to develop automated methods that aid in the systematic, continuous, and comprehensive assessment of technological emergence using one of the major foresight exercises, scientometrics. There is now a huge flood of scientific and technical information, especially scientific publications and patent information. Using the information patterns of emergence for technological concepts has been discovered and theories of technical emergence have been also developed in several years. We have been developing visualization tools in which thousands of technical areas have been interacted with each other and evolved in time. Several indicators of technical emergence have been improved by universities, international organizations, and funding agencies. This book intends to provide readers with a comprehensive overview of the current state of the art in scientometrics that focuses on the systematic, continuous, and comprehensive assessment of technological emergence.

This volume explores the governance and management of science, technology, and innovation (STI) in relation to innovation policy and governance systems, highlighting its goal, challenges, and opportunities. Divided into two sections, it addresses the role of governments in promoting innovation in Latin-American contexts as well as barriers and opportunities for STI governance in the region. The chapters tackle the role of institutions, innovation funding, technological trajectories, regional innovation policies, innovation ecosystems, universities, knowledge appropriation, and markets. Researchers and scholars will find an opportunity to grasp a better understanding of innovation policies in emerging economies. This interdisciplinary work presents original research on science, technology and innovation policy and governance studies in an understudied region.

Higher education has changed significantly over time. In particular, traditional face-to-face degrees are being revamped in a bid to ensure they stay relevant in the 21st century and are now offered online. The transition for many universities to online learning has been painful—only exacerbated by the COVID-19 pandemic, forcing many in-person students to join their virtual peers and professors to learn new technologies and techniques to educate. Moreover, work has also changed with little doubt as to the impact of digital communication, remote work, and societal change on the nature of work itself. There are arguments to be made for organizations to become more agile, flexible, entrepreneurial, and creative. As such, work and education are both traversing a path of immense changes, adapting to global trends and consumer preferences. The Handbook of Research on Future of Work and Education: Implications for Curriculum Delivery and Work Design is a comprehensive reference book that analyzes the realities of higher education today, strategies that ensure the success of academic institutions, and factors that lead to student success. In particular, the book addresses essentials of online learning, strategies to ensure the success of online degrees and courses, effective course development practices, key support mechanisms for students, and ensuring student success in online degree programs. Furthermore, the book addresses the future of work, preferences of employees, and how work can be re-designed to create further employee satisfaction, engagement, and increase productivity. In particular, the book covers insights that ensure that remote employees feel valued, included, and are being provided relevant support to thrive in their roles. Covering topics such as course development, motivating online learners, and virtual environments, this text is essential for academicians, faculty, researchers, and students globally.

This volume explores the governance and management of science, technology, and innovation (STI) in relation to social inclusion and sustainability, highlighting its goal, challenges, and opportunities. Divided into two sections, it addresses the goals and institutional arrangements around sustainable development in the context of Latin American countries as well as the challenges of developing absorptive STI capacities for inclusion in the higher education institutions and systems. The chapters tackle the important role of citizen science, science diplomacy, peace building, mission-oriented policies, public innovation, institutional entrepreneurs, and policy networks. Researchers and scholars will find an opportunity to better grasp several topics and methodologies in knowledge development in the governance of STI. This interdisciplinary work presents original research on science, technology and innovation policy and governance studies in an understudied region.

This book constitutes the proceedings of the 21st International Conference on Theory and Practice of Digital Libraries, TPD 2017, held in Thessaloniki, Greece, in September 2017. The 39 full papers, 11 short papers, and 10 poster papers presented in this volume were carefully reviewed and selected from 106 submissions. In addition the book contains 7 doctoral consortium papers. The contributions are organized in topical sections named: linked data; corpora; data in digital libraries; quality in digital libraries; digital humanities; entities; scholarly communication; sentiment analysis; information behavior; information retrieval.

This book constitutes the refereed proceedings of the 28th International Conference on Data Analytics and Management in Data Intensive Domains, DAMDID/RCDL 2016, held in Ershovo, Moscow, Russia, in October 2016. The 16 revised full papers presented together with one invited talk and two keynote papers were carefully reviewed and selected from 57 submissions. The papers are organized in topical sections on semantic modeling in data intensive domains; knowledge and learning management; text mining; data infrastructures in astrophysics; data analysis; research infrastructures; position paper.

The Encyclopedia of Library and Information Sciences, comprising of seven volumes, now in its fourth edition, compiles the contributions of major researchers and practitioners and explores the cultural institutions of more than 30 countries. This major reference presents over 550 entries extensively reviewed for accuracy in seven print volumes or online. The new fourth edition, which includes 55 new entries and 60 revised entries, continues to reflect the growing convergence among the disciplines that influence information and the cultural record, with coverage of the latest topics as well as classic articles of historical and theoretical importance.

What Is Scientific Knowledge? is a much-needed collection of introductory-level chapters on the epistemology of science. Renowned historians, philosophers, science educators,

and cognitive scientists have authored 19 original contributions specifically for this volume. The chapters, accessible for students in both philosophy and the sciences, serve as helpful introductions to the primary debates surrounding scientific knowledge. First-year undergraduates can readily understand the variety of discussions in the volume, and yet advanced students and scholars will encounter chapters rich enough to engage their many interests. The variety and coverage in this volume make it the perfect choice for the primary text in courses on scientific knowledge. It can also be used as a supplemental book in classes in epistemology, philosophy of science, and other related areas. Key features: * an accessible and comprehensive introduction to the epistemology of science for a wide variety of students (both undergraduate- and graduate-level) and researchers * written by an international team of senior researchers and the most promising junior scholars * addresses several questions that students and lay people interested in science may already have, including questions about how scientific knowledge is gained, its nature, and the challenges it faces.

The science of graphs and networks is now an established tool for modeling and analyzing systems with a large number of interacting components. The contributions to this anthology address different aspects of the relationship between innovation and networks.

This book constitutes the proceedings of the 2nd International Conference on Advances in Emerging Trends and Technologies (ICAETT 2020), held in Riobamba, Ecuador, on 26–30 October 2019, proudly organized by Facultad de Informática y Electrónica (FIE) at Escuela Superior Politécnica de Chimborazo and supported by GDEON. ICAETT 2020 brings together top researchers and practitioners working in different domains of computer science to share their expertise and to discuss future developments and potential collaborations. Presenting high-quality, peer-reviewed papers, the book discusses the following topics: Communicationse-Government and e-Participatione-LearningElectronicIntelligent SystemsMachine VisionSecurityTechnology Trends

This State-of-the-Art Survey constitutes the Final Publication of the COST Action IC1002 on Multilingual and Multifaceted Interactive Information Access, MUMIA. It contains outstanding research, recent developments and new directions in all related aspects of multifaceted and interactive information access with a focus on professional and enterprise search. The contributions are grouped in the following three parts: frameworks, models and theory; tools, applications and practice; and patent search. The Intellectual Property (IP) domain is used through the book as a primary case study. The book aims to bring together material which has been published in a fragmentary way in journals and conference papers into a coherent whole but also present novel, unpublished work where appropriate.

In recent years, academic advancement and access to funds that stimulate scientific research have been conditioned by the scientific production of individual scientists as well as the production of scientific centers, institutes and universities. This has led to an increase in interest in the accelerated assessment and ranking of scientists and scientific institutions. Scientometry is a sub-discipline of information sciences that measures achievement in science. This book provides the reader with a detailed insight into relevant scientometric methods and criteria, their individual strengths and weaknesses in the process of ranking scientists, scientific centers and institutions, as well as their application to the process of planning scientific projects and isolated medical specialties.

This book constitutes the refereed proceedings of the 44th International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2018, held in Krems, Austria, in January/February 2018. The 48 papers presented in this volume were carefully reviewed and selected from 97 submissions. They were organized in topical sections named: foundations of computer science; software engineering: advances methods, applications, and tools; data, information and knowledge engineering; network science and parameterized complexity; model-based software engineering; computational models and complexity; software quality assurance and transformation; graph structure and computation; business processes, protocols, and mobile networks; mobile robots and server systems; automata, complexity, completeness; recognition and generation; optimization, probabilistic analysis, and sorting; filters, configurations, and picture encoding; machine learning; text searching algorithms; and data model engineering.

Handling and archiving data should be done in a highly professional and quality-controlled manner. For academic and research libraries, it is required to know how to document data and support traceability, as well as to make it reusable and productive. However, these institutions have different requirements relating to the archiving and reusability of data. Therefore, a comprehensive source of information is required to understand data access and management within these organizations. Research Data Access and Management in Modern Libraries is a critical scholarly resource that delves into innovative data management strategies and strategy implementation in library settings and provides best practices to stakeholders using the latest tools and technology. It further explores concepts such as research data management, data access, data preservation, building document and data institutional repositories, applications of Web 2.0 tools, mobile technology applications in data access, and conducting information literacy programs. This book is ideal for librarians, information specialists, research scholars, students, IT managers, computer scientists, policymakers, educators, and academic administrators.

Scientometrics for the Humanities and Social Sciences is the first ever book on scientometrics that deals with the historical development of both quantitative and qualitative data analysis in scientometric studies. It focuses on its applicability in new and emerging areas of inquiry. This important book presents the inherent potential for data mining and analysis of qualitative data in scientometrics. The author provides select cases of scientometric studies in the humanities and social sciences, explaining their research objectives, sources of data and methodologies. It illustrates how data can be gathered not only from prominent online databases and repositories, but also from journals that are not stored in these databases. With the support of specific examples, the book shows how data on demographic variables can be collected to supplement scientometric data. The book deals with a research methodology which has an increasing applicability not only to the study of science, but also to the study of the disciplines in the humanities and social sciences.

The use of secondary data for research can offer benefits, particularly when limited resources are available for conducting research using primary methods. Researchers and students at both undergraduate and postgraduate levels, including their academic instructors, are increasingly recognising the immense opportunities in applying secondary research methods in built environment research. Advances in technology has also led to vast amounts of existing datasets that can be utilized for secondary research. This textbook provides a systematic guide on how to apply secondary research methods in the built environment, including their various underpinning methodologies. It provides guidance on the secondary research process, benefits, and drawbacks of applying secondary research methods, how to source for secondary data, ethical considerations, and the various secondary research methods that can be applied in built environment research. The book incorporates chapters dealing with qualitative secondary analysis,

systematic literature reviews, legal analysis, bibliometric and scientometric analysis, literature-based discovery, and meta-analysis. Secondary Research Methods in the Built Environment is an ideal research book for undergraduate and postgraduate students in construction management, construction project management, quantity surveying, construction law and dispute resolution, real estate and property management, building services engineering, architecture, and civil engineering.

This book constitutes the thoroughly refereed proceedings of the 22nd International Conference on User Modeling, Adaption and Personalization, held in Aalborg, Denmark, in July 2014. The 23 long and 19 short papers of the research paper track were carefully reviewed and selected from 146 submissions. The papers cover the following topics: large scale personalization, adaptation and recommendation; Personalization for individuals, groups and populations; modeling individuals, groups and communities; Web dynamics and personalization; adaptive web-based systems; context awareness; social recommendations; user experience; user awareness and control; Affective aspects; UMAP underpinning by psychology models; privacy; perceived security and trust; behavior change and persuasion.

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.

This Special Issue book focuses on the theory and practice of search engine optimization (SEO). It is intended for anyone who publishes content online and it includes five peer-reviewed papers from various researchers. More specifically, the book includes theoretical and case study contributions which review and synthesize important aspects, including, but not limited to, the following themes: theory of SEO, different types of SEO, SEO criteria evaluation, search engine algorithms, social media and SEO, and SEO applications in various industries, as well as SEO on media websites. The book aims to give a better understanding of the importance of SEO in the current state of the Internet and online information search. Even though SEO is widely used by marketing practitioners, there is a relatively small amount of academic research that systematically attempts to capture this phenomenon and its impact across different industries. Thus, this collection of studies offers useful insights, as well as a valuable resource that intends to open the door for future SEO-related research.

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Proceedings of the 9th International Conference on Scientometrics and Informetrics, ISSI-2003
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