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Sustaining Higher Education Through Resource Allocation, Learning Design Models, and Academic Development

Conversations, debates, and policies toward higher education remain in an uncritical mode of normality on issues such as inclusion, exclusion, and equity. In addition, the onset of the COVID-19 pandemic has starkly highlighted the fragility of the higher education system and has raised salient questions related to inclusivity and quality in all aspects. *Sustaining Higher Education Through Resource Allocation, Learning Design Models, and Academic Development* fills a gap in the existing literature by introducing current practices and procedures in the face of the new normal as they affect the higher education sector. The book also addresses the various issues of current interest in the higher education sector relative to teaching and learning, student support, staff development, curriculum development, educational technologies, learning design models, and resource allocation. Covering key topics such as student engagement, assessment practices, and academic development, this premier reference source is ideal for administrators, researchers, scholars, academicians, practitioners, instructors, and students.

Sustainable Biochar for Water and Wastewater Treatment

Sustainable Biochar for Water and Wastewater Treatment addresses the worldwide water contamination and scarcity problem by presenting an innovative and cost-efficient solution. This book directly deals with the Sustainable Development Goal 6: Ensure availability and sustainable management of water and sanitation for all. Each chapter is authored by a respected expert in the field of water and wastewater treatment, with each chapter including case studies, worked examples, and exercises. As such, the book is the perfect introduction to the field and is multipurpose in that it can be used for teaching, learning, research, and practice. The book is invaluable for undergraduate level and above in water science, environmental sciences, soil science, material sciences and engineering, chemical sciences and engineering, and biological sciences. The book covers the various aspects of biochar requirements for use in adsorption science and technology. It includes vital information on this hot topic and provides a real solution to the global issues of water contamination and scarcity. Presents case studies in each chapter, making this applicable for those who want to implement examples into their own work. Includes in each chapter example calculations with an exercise at the end of each chapter, making this a great teaching tool. Includes excel spreadsheets online, perfect for use as a laboratory guide.

Handbook of Operations Research and Management Science in Higher Education

This handbook covers various areas of Higher Education (HE) in which operations research/management science (OR/MS) techniques are used. Key examples include: international comparisons,

university rankings, and rating academic efficiency with Data Envelopment Analysis (DEA); formulating academic strategy with balanced scorecard; budgeting and planning with linear and quadratic models; student forecasting; E-learning evaluation; faculty evaluation with questionnaires and multivariate statistics; marketing for HE; analytic and educational simulation; academic information systems; technology transfer with systems analysis; and examination timetabling. Overviews, case studies and findings on advanced OR/MS applications in various functional areas of HE are included.

World Class Universities

This open access book focuses on the dimensions of the discourse of 'The World Class University', its alleged characteristics, and its policy expressions. It offers a broad overview of the historical background and current trajectory of the world-class-university construct. It also deepens the theoretical discussion, and points a way forward out of present impasses resulting from the pervasive use and abuse of the notion of "world-class" and related terms in the discourse of quality assessment. The book includes approaches and results from fields of inquiry not otherwise prominent in Higher Education studies, including philosophy and media studies, as well as sociology, anthropology, educational theory. The growing impact of global rankings and their strategic use in the restructuring of higher education systems to increase global competitiveness has led to a 'reputation race' and the emergence of the global discourse of world class universities. The discourse of world class universities has rapid uptake in East Asian countries, with China recently refining its strategy. This book provides insights into this process and its future development.

Universities as Living Labs for Sustainable Development

This book fills an important gap in the literature, and presents contributions from scientists and researchers working in the field of sustainable development who have engaged in dynamic approaches to implementing sustainability in higher education. It is widely known that universities are key players in terms of the implementation and further development of sustainability, with some having the potential of acting as "living labs" in this rapidly growing field. Yet there are virtually no publications that explore the living labs concept as it relates to sustainability, and in an integrated manner. The aims of this book, which is an outcome of the "4th World Symposium on Sustainable Development at Universities" (WSSD-U-2018), held in Malaysia in 2018, are as follows: i. to document the experiences of universities from all around the world in curriculum innovation, research, activities and practical projects as they relate to sustainable development at the university level; ii. to disseminate information, ideas and experiences acquired in the execution of projects, including successful initiatives and good practice; iii. to introduce and discuss methodological approaches and projects that seek to integrate the topic of sustainable development in the curricula of universities; and iv. to promote the scalability of existing and future models from universities as living labs for sustainable development. The papers are innovative, cross-cutting and many reflect practice-based experiences, some of which may be replicable elsewhere. Also, this book, prepared by the Inter-University Sustainable Development Research Programme (IUSDRP) and the World Sustainable Development Research and Transfer Centre (WSD-RTC), reinforces the role played by universities as living labs for sustainable development.

Universities and Civilizations

Since the publication of the first Shanghai ranking in 2003, the international rankings of universities have become evermore important. This book examines the evolution of higher education systems and the role of universities in contemporary societies, which are marked by increased competition and tensions. Investigating whether the dynamism of large universities is an accurate indicator of the intellectual life of their civilizations, *Universities and Civilizations* systematically analyzes the evolution of universities in several main rankings, from their creation until now. This analysis shows the rise of universities in China and parts of Europe, the decline of American and Japanese universities and the scant presence of universities in Russia, India, Africa and Latin America. This book suggests an overhaul of traditional models of academic cooperation and exchange in an era of growing international tensions and a time when people and knowledge are increasingly mobile.

Research and innovation

The University of Minho (UMinho) defined some years ago a comprehensive and integrative research policy in order to actively contribute to pushing the frontiers of human knowledge, to the reinforcement of the national scientific system, and to the consolidation of its institutional position both in national and

international arenas. Thus, the commitment to become a research university is stated in the different strategic documents approved by the University along the last decade. UMinho defined a clear strategy in order to be an open and permanent space for the creation of knowledge and the furtherance of nationally and internationally relevant innovation across the different areas of knowledge. Being a comprehensive University, UMinho aims at fostering high quality research in all the scientific domains in which our Research Units inscribe their activity: Sciences, Health and Life Sciences, Engineering and Technology, Social Sciences and Arts and Humanities. From the very beginning, UMinho has adopted the principles of open access and open science. We aim at carrying out our scientific activity in a transparent and collaborative way, actively promoting the sharing and communication of research processes, data and outputs. We are convinced that we do better science when we make it both more sensitive to the needs of society and also more effective in what concerns the allocated resources. As we see it, accountability is a pre-requisite for reinforcing citizen awareness of the contributions of science to a better world. These are the reasons why UMinho played a pioneering role in allowing open access to its publications and why it is currently expanding its sharing of research data. At UMinho, research is carried out in close connection with education. The University is increasingly involving students of the different learning cycles in research activities. Conversely, both PhD students and post-doctoral researchers play a role in teaching activities. Acting in this way, not only do we guarantee better quality education but we also establish the basis for a sustainable development of the scientific system and the fostering of scientific culture. We conceive research as a global enterprise, seeking for the answers to the main challenges of our times. In this sense, research is essentially international and requires the continuous reinforcement of international collaborations and participation in international initiatives, namely in the context of the European Research Area. At the same time, we are always promoting the multiplier effects of the scientific research we undertake for the socio-economic and cultural development of the country and of our region. The University's high-quality scientific performance is clear when we consider: (i) the results of the international evaluation of our Research Units carried out by the National Science Foundation (FCT); (ii) the position that UMinho has been achieving in important international rankings; (iii) the number and diversity of University projects approved under the 7th Framework Program and the H2020; and (iv) the large collaboration projects with companies and other organisations that are under development. The high standards of the activity of our Research Units is made clear in this publication. When we consider the characteristics of their human resources, their publications, the projects funded by national and international agencies, the national and international recognition of their researchers, the networks with which they are engaged, and the scientific events they promote it becomes clear how well positioned in the national and international context our Research Units are. This publication gives a general overview of research in UMinho along the year of 2018. It is the first of a series providing detailed information about the research work of the University. Research at UMinho is governed by a permanent concern with providing feedback to the scientific community and to our fellow citizens as most of our funding is from public sources. Together with the adoption of external evaluation procedures, providing feedback is one of the best ways to establish the relevance of science undertaken for the public good, and for guaranteeing the scientific independence of our researchers and their Research Units. Nowadays, science is essential for fostering social and economic development. Through this publication we reveal the relevant role that UMinho is playing in this enterprise. Rui Vieira de Castro Rector

The Global Academic Rankings Game

The Global Academic Rankings Game provides a much-needed perspective on how countries and universities react to academic rankings. Based on a unified case methodology of eleven key countries and academic institutions, this comprehensive volume provides expert analysis on this emerging phenomenon at a time when world rankings are becoming increasingly visible and influential on the international stage. Each chapter provides an overview of government and national policies as well as an in-depth examination of the impact that rankings have played on policy, practice, and academic life in Australia, Chile, China, Germany, Malaysia, the Netherlands, Poland, Russia, Turkey, the United Kingdom, and the United States. The Global Academic Rankings Game contributes to the continuing debate about the influence of rankings in higher education and is an invaluable resource for higher education scholars and administrators as they tackle rankings in their own national and institutional contexts.

Research Assessment in the Humanities

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.

Research and Innovation 2019

Research and innovation are two pillars that come together when universities are at stake. The expansion of the frontiers of human knowledge, in all areas and disciplines, is an irrefutable commitment of higher education institutions. Together with public and private entities, they are also committed to promoting knowledge transfer to society and the economy, in the form of new ideas, new products and new processes. Universities are supposed to transform ideas into value for society. To achieve these goals, higher education institutions have to assure their human resources are highly qualified, that they have an adequate atmosphere, that research is of high quality, and finally that adequate interactions take place. At UMinho we have a clear strategy to be an open and permanent space for knowledge production and furtherance of nationally and internationally relevant innovation across different social and economic sectors. For many years, UMinho has adopted the principles of open access and open science. We aim at carrying out our scientific activity and the dissemination of the corresponding results transparently and collaboratively; this implies that researchers, citizens, policymakers, state agencies, companies, and third sector organizations work in close cooperation facing research and innovation processes. We believe this is the shorter way to trigger smart and sustainable growth and qualified job creation. At UMinho, we encourage the coupling between research and education. Our goal is to expand research opportunities and to give our students occasions to experience vibrant research environments, ensuring that learning goes beyond the “common” routines. Joining research and learning processes provides both undergraduate and postgraduate students with opportunities to own their learning process. We believe that research experience has a role to play in improving students’ motivation for learning, in the pursuit of their interests. Doing better science occurs when we make it both more sensitive to the needs of society and also more efficient in what concerns the allocated resources. It is also a question of accountability. This is fundamental for reinforcing society awareness about our contributions to human and social development. Following the 2018 publication, we present here the 2019 edition of Research and Innovation, a series that draws on the outcomes of the activity of the UMinho research and innovation ecosystem. This comprehensive volume gives particular emphasis to the Research Units outcomes, namely in terms of funding, research projects, papers, and the most important achievements; the activity of the Interface Units and Collaborative Laboratories in which UMinho participates is also reported, through their activities and institutional projects, making evident their importance for the continuous growth of our Institution, our region, and our country. Rui Vieira de Castro Rector

Incentives and Performance

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

World University Rankings and the Future of Higher Education

Delivering quality education to students while remaining competitive at an international level is only one of the many challenges universities face today. To attain their goals, universities must adopt new strategies to achieve academic excellence. World University Rankings and the Future of Higher Education is a pivotal reference source for the latest scholarly research on the implementation of a ranking system for higher education institutions, providing a thorough overview of the impacts of these rankings on educational quality. Exploring the benefits and challenges of this system in a global context, this book is ideally designed for academicians, researchers, students, administrators, and policy makers interested in the effects of university rankings in the education sector and beyond.

Emerging Issues in the Global Economy

This proceedings volume provides current research on emerging issues in business, economics and finance in the global economy with particular emphasis on Eastern Europe. Featuring selected papers from the 2017 International Economics Conference in Sibiu (IECS) organized by the Lucian Blaga University of Sibiu, Romania, the contributing chapters consider new business models, theories, practices and instruments from advanced and emerging economies in the context of recent global trends. After over 20 years of increasing openness and liberation of the world economy, recent events in regions such as Europe, USA and Asia have created challenges to the idea of globalization and integration. There is a delay between the real-world economic changes and the reflection of such changes in the economic research literature. The 2017 IECS conference and the enclosed papers aim to fill this gap in the study of globalization, covering diverse topics such as business administration, sustainability, corporate social responsibility, finance, accounting, tourism and business informatics.

World Yearbook of Education 2010

The World Yearbook of Education 2010: Education and the Arab 'World': Political Projects, Struggles, and Geometries of Power, strives to do justice to the complex processes and dynamics behind the world of Arab education. Western interest in all things 'Arab' has greatly increased over the course of the decade, but this interest runs the risk of forgetting that the Arab world is positioned within wider contexts of regional, geopolitical, and global processes. This volume examines Arab education in a range of contexts – regional, diasporic, and trans-national – to better understand how the field of Arab education is formed through local, regional, geopolitical and global engagements and resonances. In doing so, contributors from a range of disciplines open critical conversations about the intersections of history, culture, geopolitics, policy, and education. The World Yearbook of Education 2010 offers new conceptual and empirical approaches that deal with some of the often-neglected aspects of the study of Arab education: contested political projects; struggles towards emancipation, recognition and liberation; and a larger concern for social justice, equity, and political inclusion.

Bridging the Gap between the Abundance of American Higher Education Talent and the Immense Foreign Demand for It

The gap between the abundance of American higher education talent and the immense foreign demand for it is the great chasm in global education. It is a gulf of lost opportunities. It is also a space of great economic potential. This book describes the great chasm, examines factors underlying it, and suggests ways to bridge the gap to realize this potential. The abundance of talent stems from the slackening growth of the U.S. higher education sector in the New Millennium. Contributing to the slowdown are flat enrollments, adverse demographic trends, U.S. visa restrictions, and intensifying competition. The immense foreign demand has been fueled by the secular expansion of the global economy. It has been shaped by the pressing need in emerging markets to develop an educated workforce. The great chasm creates an opportunity for American academic institutions to extend their global reach. Bridging the gap, however, is not an easy feat for most U.S. colleges and universities. It is complicated by an institutional culture that is averse to commercialization, an organizational structure that is operationally slow, and a governance system that often leads to indecision, conflict, and paralysis. Bridging the gap requires fundamental changes in the culture, organization, and governance of traditional U.S. academic institutions. These changes will pave the way for international expansion, which could enhance the financial well-being of these institutions, the social-well-being of less developed nations, and the critical role that America plays globally in knowledge creation, the dissemination of ideas, and the pursuit of the truth.

The Impact of Higher Education Ranking Systems on Universities

This book, written by three generations of rankings academics with considerable experience from three very different regions of the globe, lifts the lid on the real impact of higher education ranking systems (HERS) on universities and their stakeholders. It critically analyses the criteria that make up the 'Big Three' global ranking systems and, using interviews with senior administrators, academics and managers, discusses their impact on universities from four very different continents. Higher education continues to be dominated by a reputational hierarchy of institutions that sustains and is reinforced by HERS. Despite all the opinions and arguments about the legitimacy of the rankings as a construct, it seems experts agree that they are here to stay. The question, therefore, seems to be less about whether or not universities should be compared and ranked, but the manner in which this is undertaken. Delivering a fresh perspective on global rankings, this book summarizes the development of HERS and provides a critical evaluation of the effects of HERS on four different major regions – South Africa, the Arab region, South East Asia, and Australia. It will appeal to any academic, student, university administrator or governing body interested in or affected by global higher education ranking systems.

Advanced Methodologies and Technologies in Library Science, Information Management, and Scholarly Inquiry

As the academic and scholarly landscape are continuously enhanced by the advent of new technology, librarians must be aware and informed to develop and implement best practices. Effective administration of libraries is a crucial part of delivering library services to patrons and ensuring that information resources are disseminated efficiently. Advanced Methodologies and Technologies in Library Science, Information Management, and Scholarly Inquiry provides emerging information on modern knowledge management and effective means of sharing research through libraries. While highlighting the importance of digital literacy and information resources, readers will also learn new methods in information retrieval and research methods in quality scholarly inquiry. This book is an important resource for librarians, administrators, information science professionals, information technology specialists, students, and researchers seeking current information on the importance of effective library science technology.

Research Handbook on University Rankings

Gathering unique and thoughtful contributions from leading international scholars, this timely Research Handbook offers diverse perspectives on university rankings twenty years after the first global rankings emerged. It presents an in-depth analysis that reflects the current state of research on rankings, their influence and impact.

Digital Tools for Academic Branding and Self-Promotion

Reputation can be a pivotal factor to potential success throughout one's academic career. By utilizing available technological assets and tools, professionals can effectively manage their personal brands. Digital Tools for Academic Branding and Self-Promotion is an authoritative reference source for the latest research on the interrelationship between digital branding and academic reputation. Showcasing relevant digital platforms and techniques, this book is a compendium of vital material for academics, professionals, practitioners, and marketers interested in effective reputation management.

Digital Marketing and Consumer Engagement: Concepts, Methodologies, Tools, and Applications

Consumer interaction and engagement are vital components to help marketers maintain a lasting relationship with their customers. To achieve this goal, companies must utilize current digital tools to create a strong online presence. Digital Marketing and Consumer Engagement: Concepts, Methodologies, Tools, and Applications is an innovative reference source for the latest academic material on emerging technologies, techniques, strategies, and theories in the promotion of brands through forms of digital media. Highlighting a range of topics, such as mobile commerce, brand communication, and social media, this multi-volume book is ideally designed for professionals, researchers, academics, students, managers, and practitioners actively involved in the marketing industry.

Evaluative Informetrics: The Art of Metrics-Based Research Assessment

We intend to edit a Festschrift for Henk Moed combining a "best of" collection of his papers and new contributions (original research papers) by authors having worked and collaborated with him. The

outcome of this original combination aims to provide an overview of the advancement of the field in the intersection of bibliometrics, informetrics, science studies and research assessment.

The Future of Higher Education in India

The book analyses various challenges emanating from privatization, globalization and public financial crunch to understand the future directions of higher education in India. The book presents a careful understanding of structure, finance and governance of higher education and advocates a new way to look at increasing the capability of students to secure their future. Attention has also been drawn to the inequalities prevailing in the system of higher education and pursuing inclusive approach so as to have sufficient employment opportunities for students in the labour market. The book is divided into three parts. Part 1 deals with the future in terms of university structure and functions, Part 2 deals with the future of financing higher education and Part 3 deals with capabilities required by teachers for the future of universities. It is an interesting collection of various themes in different chapters which are authored by serious researchers. All policy makers, university administrators and teachers and researchers of higher education interested in governance, financing, teaching as well as research in the area of higher education will find the contents of the book relevant. The book will benefit in understanding the challenges of higher education and help remodel the future of higher education in India.

New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering

This book includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Informatics, and Systems Sciences, and Engineering. It includes selected papers from the conference proceedings of the Ninth International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 2013). Coverage includes topics in: Industrial Electronics, Technology & Automation, Telecommunications and Networking, Systems, Computing Sciences and Software Engineering, Engineering Education, Instructional Technology, Assessment, and E-learning. • Provides the latest in a series of books growing out of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering; • Includes chapters in the most advanced areas of Computing, Informatics, Systems Sciences, and Engineering; • Accessible to a wide range of readership, including professors, researchers, practitioners and students.

Measuring Service Performance

In service societies, the tertiary sector has long become the primary sector in terms of GDP and employment. Quality research and testing means better service, and success in the service industries demands quality. Nonetheless, complaints about insufficient, inconsistent or bad service abound. Quality decides on success and failure. Where so much is at stake, management decisions call for systematic research and consumers look for relevant results that provide guidance in complex markets. Research into quality and customer satisfaction gets to the core of a business. However, many so-called studies hardly meet essential criteria of empirical research and deliver artefacts rather than facts. This book puts an end to common misconceptions of quality studies. Measuring Service Performance is an appeal for an approach to quality research that meets quality criteria itself. It is a compelling argument against widespread but rather dubious dealings with measurement, data and statistics. Ralf Lisch calls for a reconsideration of the research process, focussing on content instead of method and adding meaning to results. Because service excellence deserves research excellence. Written in a practical, accessible style, the book offers practitioners as well as market researchers, MBA students and others involved in the service sector a critical analysis and discussion of the essentials of 'Practical Research for Better Quality'.

Human Capital and Development

During recent decades, Korea has been one of only a handful of countries that have made the successful transformation to become a developed nation by simultaneously achieving persistent economic growth combined with a democratic political system. Experts and political leaders worldwide have attributed this achievement to investments in people or, in other words, the power of education. Whilst numerous books have highlighted the role of industrial policies, technological growth, and international trade in Korea's development process, this is one of the first to focus on the role of human capital.

It shows how the accumulation of human capital aided transformation and helps explain the policies, strategies and challenges that Korea faces now and in the future.

Key Factors in Postgraduate Research Supervision A Guide for Supervisors

Key Factors in Postgraduate Research Supervision - A Guide for Supervisors is designed to inform and support university academics and researchers who are taking on the responsibilities of postgraduate research student supervision. It is aimed at early career professionals, who may be undertaking supervision for the first time, and also experienced supervisors seeking to develop a more formal framework for their supervision, in an increasingly complex academic environment. The objective of the book is to help supervisors create the complete postgraduate student. That is, an individual who can develop the rigors and disciplines of research conduct and research writing, as well as a broader understanding of the environment in which many postgraduate qualified professionals will work. The majority of postgraduate research students in the modern world ultimately use their acquired skills to work outside the university research environment, so emphasis is given to preparing research students for these varied roles, which can include management; commercial research or start-up company pathways. Any competent academic can be a good research supervisor when things are going well. Real supervisory skills only come into play when things have gone awry. That is when a professional and structured approach to problem solving and conflict resolution is required. This book seeks to provide the framework in which supervisors can develop such an approach. The topics covered in this text cover the spectrum of the supervisory process, from understanding the university research environment, through to recruiting students; induction; planning of the research program; peer review and thesis/dissertation preparation. Additionally, important peripheral issues, such as preparing graduates for various future roles; managing collaborative research programs; managing cases of misfeasance, and developing long-term relationships with students are also covered.

Knowledge Alchemy

This book introduces the concept of 'knowledge alchemy' to capture the generic process of transforming mundane practices and policies of governance into competitive ones following imagined global gold standards. Using examples from North America, Europe and Asia, it explores how knowledge alchemy increasingly informs national and institutional policies and practices on economic performance, higher education, research and innovation. The book examines how governments around the world have embraced global models of world-class university, human capital and talent competition as essential in ensuring national competitiveness. Through its analysis, the book shows how this strongly future-oriented and anticipatory knowledge governance is steered by a surge of global classifications, rankings and indicators, resulting in numerous comparisons of various domains that today form more constraining global policy scripts.

Springer Handbook of Science and Technology Indicators

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.

Internationalization in Higher Education and Research

This book examines the pros and cons of the internationalization of higher education institutions, which is an important feature of modern universities. It makes a significant contribution to our understanding of universities and an important input to the assessment of the internationalization of higher education institutions both for regulators and for the universities themselves. The book's three parts focus on a number of issues associated with internationalization. The first part – Perspectives on Internationalization – provides critical reflections on internationalization, on the globally distributed European-American university and on the impact of rankings. The second part – The Obstacles to Internationalization – deals with the significance of language, challenges of mobility and environment concerns. The third part – Alternative Modes of Internationalization – discusses internationalization at home, international distance education and the establishment of international branch campuses.

The Emerald Handbook of Research Management and Administration Around the World

The ebook edition of this title is Open Access and freely available to read online. The most comprehensive book about practitioners working in research management and administration, with insights from around the globe and across disciplines to provide a comprehensive account of RMAs as a profession.

Global Science's Cooperation Opportunities, Challenges, and Good Practices

Science diplomacy gives possibilities for international diplomacy and science policy to collaborate to more directly address social and global challenges, such as successful diplomatic engagement, international scientific coordination, and policy coherence in response to the COVID-19 pandemic. However, most academic scientists lack policy process training, networking opportunities with science policymakers, and the capacity to use their expertise in the field to advance policy or diplomacy. These barriers limit scientists' research impact, inhibit science-policy relations, reduce science recommendations, and restrict university engagement in national and international contexts. The origins of science diplomacy have yet to be closely examined, and its current format does not give a clear understanding of how it concretely translates into science policy actions. Global Science's Cooperation Opportunities, Challenges, and Good Practices provides a comprehensive overview of science diplomacy and its evolution in history and analyzes the ways in which politics, science, and diplomacy intertwine. The book also provides a critical review of science diplomacy by exposing its limitations in addressing global challenges and by reflecting on the specific questions relating to the adaptation of the science diplomacy concept to the context of the Global South. Covering key topics such as climate change, foreign policy, and energy consumption, this premier reference source is ideal for policymakers, government officials, politicians, industry professionals, researchers, academicians, scholars, practitioners, instructors, and students.

Handbook of Meta-Research

A collective project arising from a dynamic configuration of research concerned with systematic, critical and reflexive inquiry into the normative frames, institutional workings and lived realities of research, this dexterously-crafted Handbook acts as a working guide to the rapidly-evolving interdisciplinary field of meta-research. Bringing together cutting-edge multidisciplinary scholarship, it expertly outlines key domains including the public value, policy and governance of research, knowledge dynamics, and research cultures and careers. This title contains one or more Open Access chapters.

Quantifying Human Resources

Since the late 20th Century, Human Resources (HR) has had a legal obligation to produce reports for management in most firms. However, these have long been considered restrictive and are seldom used to improve decision-making. More recently, the emergence of analytics, Big Data and algorithms has enabled a reconfiguration of the uses of quantification in HR. Accompanied by empirical examples, this book presents and defines the different tools and uses of quantification in HR. It studies the effect of these tools on decision-making and ? without subscribing to the myth of objective and rational quantification ? presents the contributions and limits of the use of data in HR, and analyzes the potential risks of excessive quantification. It also discusses the appropriation of these tools by the various players in a company and examines their effects on the position of HR.

The Reflexive Diversity Research Programme

Diversity is both a cause for controversial discussions and an opportunity to reflect on social participation. This book offers a basic introduction to important currents in diversity research by presenting central theoretical determinants of the research perspective. An analysis of the diversity strategy and its implementation at the University of California, Berkeley serves as an empirical-practical example in this regard. In particular, this case study illustrates the intersectional research perspective and the multi-level and multi-method research design of reflexive diversity research. In the sense of reflexive constructivism, the practice of research itself is reflected using the example of the case study.

Hospitality and Tourism Education in China

This book is the first to systematically introduce China's tourism education system and the various tourism education practices in China to the international audience and stakeholders. China has the world's largest tourism education system, which consists of over 1,000 higher learning institutions with tourism-related programs and over half a million of tertiary-level students studying in these programs. Despite the industry scale, internationally, little is known about this tourism education system and how it operates. Knowledge and better understanding of China's tourism education system are important as tourism becomes one of the critical forces transforming economy, society and environment. The book offers an historical evaluation of China tourism education development and elaborates on the current industry status and practices in different subject fields of China's tourism education, including tourism management, hospitality management, events and festival management in higher education, tourism vocational education, tour guides training and certification, master of tourism administration (MTA) education as a unique education model in China, PhD education in tourism, tourism curriculum, research and international collaboration in tourism education in China. The book provides relevant knowledge to international tourism education providers, industry practitioners, human resource managers, government officials, and tourism academics, researchers, and students.

Research Anthology on Preparing School Administrators to Lead Quality Education Programs

The delivery of quality education to students relies heavily on the actions of an institution's administrative staff. Effective leadership strategies allow for the continued progress of modern educational initiatives. It is crucial to investigate how effective administrators lead their organizations in challenging and difficult times and promote the accomplishments of their organization. Research Anthology on Preparing School Administrators to Lead Quality Education Programs is a vital reference source that offers theoretical and pedagogical research concerning the management of educational systems on both the national and international scale. It also explores academic administration as well as administrative effectiveness in achieving organizational goals. Highlighting a range of topics such as strategic planning, human resources, and school culture, this multi-volume book is ideally designed for educators, administrators, principals, superintendents, board members, researchers, academicians, policymakers, and students.

The Emergence of Digital Libraries -- Research and Practices

This book constitutes the refereed proceedings of the 16th International Conference on Asia-Pacific Digital Libraries, ICADL 2014, held in Chiang Mai, Thailand, in November 2014. The 20 full papers, 19 short papers and 9 poster papers presented were carefully reviewed and selected from 141 submissions. The papers are organized in topical sections on digital preservation and archiving; digital repositories and tools; scholarly documents repositories; metadata and ontologies; linked data and knowledge sharing; digital books and e-books; digital libraries usage and applications; data management and classification; information retrieval and search methods; user skills and experiences.

University Rankings

This book adopts a qualitative case study approach to provide the readers with a systematic delineation and interpretation of the implications of the university ranking phenomenon for Taiwan's higher education system. It reviews the literature on different theories concerning the global transformation of higher education and presents basic information on higher education in Taiwan. The author develops a four-dimensional framework for the analysis of the ranking phenomenon in the island-state. First, the technological/ecological dimension aims to look into how the rankings have impacted Taiwan's higher education based on empirical findings from five Taiwanese public universities. Next, the technological/geographical dimension examines how Taiwan can use rankings to promote its interests in global higher education. The two conceptual dimensions focus on the relationship between the rankings

and power in higher education. They show how the phenomenon can be read and explained through theoretical lenses from ecological and geographical perspectives. From an ecological perspective, the empirical evidence suggests that the influence of rankings varies throughout the academic hierarchy in Taiwan. The theoretical analysis then illustrates the relationship between the ranking phenomenon and the power structure in academic hierarchy. Geographically, while the empirical analysis is based on data from Taiwan, the theoretical analysis offers essential insights that help readers to understand the changing global landscape of higher education and its implications in East Asia.

Science and Diplomacy

This book examines in depth science diplomacy, a particular field of international relations, in which the interests of science and those of foreign policy intersect. Building on a wealth of examples drawn from history and contemporary international relations, it analyzes and discusses the links between the world of scientists and that of diplomats. Written by a professor of economics and former Embassy counselor for science and technology, the book sets out to answer the following questions: Can science issues affect diplomatic relations between countries? Is international scientific cooperation a factor for peace? Are researchers good ambassadors for their countries? Is scientific influence a particular form of cultural influence on the world stage? Do diplomats really listen to what experts say when negotiating on the future of the planet? Is the independence of the scientist threatened by science diplomacy? What is a scientific attaché for?

Managing International Connectivity, Diversity of Learning and Changing Labour Markets

This book examines how major Asian cities have enhanced their global competitiveness by transforming their higher education systems to equip their graduates with global competence. It primarily focuses on policy implications and urban governance, especially comparing how governments are responding to the growing challenges of international connectivity and are managing the diversity of populations resulting from an increasingly globalized world.