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*Abominable Science!* **Open Science: the Very Idea Encyclopedia of Information Science and Technology, Fourth Edition** ECRM2013-**Proceedings of the 12th European Conference on Research Methods** **A History of Forensic Science** **Forensic Science and the Administration of Justice** **Virtue Ethics in the Conduct and Governance of Social Science Research** **Success with STEM** **Coalgebraic Methods in Computer Science** **EHF Science Olympiad Solved Question Paper Class 5 (2013)** **EHF Science Olympiad Solved Question Paper Class 3 (2013)** **Analyzing the Role of Citizen Science in Modern Research** **Exemplary Practices in Marine Science Education** **Science and Diplomacy** **Advancing Women in Science** **Follow the science - aber wohin?** **Graphene Science Handbook** **Open Science in der Soziologie: Eine interdisziplinäre Bestandsaufnahme zur offenen Wissenschaft und eine Untersuchung ihrer Verbreitung in der Soziologie** **The Politics and Science of Prevision** **The Science of Citizen Science** **Citizen Science** **Research Handbook on Innovation Governance for Emerging Economies** **Critical Issues and Bold Visions for Science Education** **STEM Integration in K-12 Education** **The Social Sciences in the Asian Century** **Relocation of Economic Activity** **Writing and Publishing Science Research Papers in English** **Routledge Handbook of Public Communication of Science and Technology** **International Business, Trade and Institutional Sustainability** **Veterinary Science: Breakthroughs in Research and Practice** **An Unworthy Future** **Future Communication, Information and Computer Science** **Information Design** **Proceedings of the Sixteenth International Conference on Management Science and Engineering Management – Volume 1** **Terrestrial Ecosystem Research Infrastructures** **Forensic Soil Science and Geology** **Capturing Change in Science, Technology, and Innovation** **Modeling and Computation in Engineering III** **East Asia and Pacific Economic Update April 2014** **Empowering Science and Mathematics for Global Competitiveness**

**Veterinary Science: Breakthroughs in Research and Practice** May 02 2020 Modern medicine is changing drastically as new technologies emerge to transform the way in which patients are diagnosed, treated, and monitored. In particular, veterinary medicine is experiencing a tremendous shift as digital innovations are integrated into veterinary practice. *Veterinary Science: Breakthroughs in Research and Practice* contains a compendium of the latest academic material on breakthroughs and recent progress in veterinary science. Including innovative studies on laboratory information management systems, animal welfare, and veterinary reform, this publication is an ideal source for professionals, practitioners, graduate students, and researchers interested in veterinary science.

**Encyclopedia of Information Science and Technology, Fourth Edition** Aug 29 2022 In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the *Encyclopedia of Information Science and Technology* has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The *Encyclopedia of Information Science and Technology, Fourth Edition* is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library.

**Research Handbook on Innovation Governance for Emerging Economies** Jan 10 2021 Although in recent years some emerging economies have improved their performance in terms of R&D investment, outputs and innovative capacity, these countries are still blighted by extreme poverty, inequality and social exclusion. Hence, emerging countries are exposed to conditions which differ quite substantially from the dominant OECD model of innovation policy for development and welfare. This *Research Handbook* contributes to the debate by looking at how innovation theory, policy and practice interact, and explains different types of configurations in countries that are characterized by two contrasting but mutually reinforcing features: systemic failure and resourcefulness. Focusing on innovation governance and public policies, it aims to understand related governance failures and to explore options for alternative, more efficient approaches.

**ECRM2013-Proceedings of the 12th European Conference on Research Methods** Jul 28 2022 Complete proceedings of the 13th European Conference on Research Methodology for Business and Management Studies ECRM 2013 PRINT version Published by Academic Conferences and Publishing International Limited.

*Relocation of Economic Activity* Sep 05 2020 This timely volume provides a thorough analysis of current trends in location and relocation of economic activity globally, regionally and locally. Using robust empirical material this book offers a multidisciplinary, comprehensive overview, critique and extension of long-established theories underpinning patterns of firm (re)location. It explores dominant trends in the mobility and relocation of industries and firms, examines the factors guiding such trends and evaluates their consequences in both developed and emerging economies in Europe, Asia and Latin America. This book will be appreciated by diverse audiences. Geography and regional science researchers of 'economic activity location' can engage with the critical appraisal of key theoretical concepts and an analysis of recent empirical data. Students of human and economic geography, planning, regional development, and global supply chain management in senior years of undergraduate programmes and completing postgraduate degrees will appreciate the accessible language, multiple examples and graphical illustrations of theoretical frameworks underpinning location and relocation of firms and industries, and its consequences. Practitioners, including local and regional policy makers and location consultants will enjoy the comparative discussion of solutions and practices adopted in localities, regions and countries as diverse as China, Brazil, The Netherlands and Poland.

*Information Design* Jan 28 2020 *Information Design* provides citizens, business and government with a means of presenting and interacting with complex information. It embraces applications from wayfinding and map reading to forms design; from website and screen layout to instruction. Done well it can communicate across languages and cultures, convey complicated instructions, even change behaviours.

Information Design offers an authoritative guide to this important multidisciplinary subject. The book weaves design theory and methods with case studies of professional practice from leading information designers across the world. The heavily illustrated text is rigorous yet readable and offers a single, must-have, reference to anyone interested in information design or any of its related disciplines such as interaction design and information architecture, information graphics, document design, universal design, service design, map-making and wayfinding.

**Open Science in der Soziologie: Eine interdisziplinäre Bestandsaufnahme zur offenen Wissenschaft und eine Untersuchung ihrer Verbreitung in der Soziologie** May 14 2021 Open Science, die offene Wissenschaft, zielt auf die möglichst umstandslose Nutzbarkeit und Verfügbarkeit weitgehend aller im Forschungsprozess anfallenden Informationen, in erster Linie von Textpublikationen, Forschungsdaten und Forschungssoftware. Überdies soll sie auch Transparenz in wissenschaftliche Arbeit moderierende Prozesse (wie die Begutachtung bzw. den Review von Textpublikationen) und in die Gewinnung von zur Bewertung von Wissenschaft herangezogenen Parainformationen (Impact-Metriken) bringen. Open-Science-Befürworter versprechen sich hiervon eine effizientere, innovationsfreundlichere und transparentere Wissenschaft, denn offene Informationen können schneller und leichter verbreitet und nachgenutzt sowie überprüft werden als nicht-offene. Die Arbeit basiert auf einer fachübergreifenden Bestandsaufnahme der Open-Science-Elemente Open Access zu Textpublikationen, Open Access zu Forschungsdaten, Open Access zu Forschungssoftware, Open Review und Open Metrics, die allesamt typischerweise eher in den STM-Fächern (Science, Technology, Medicine) zu finden sind als in den Sozial- oder Geisteswissenschaften. Ausgehend von dieser Synopse widmet sie sich weitergehend den fachinhärenten Spezifika der Soziologie, die gemeinhin als Nachzüglerin der Open Science betrachtet wird, und untersucht empirisch die Prävalenz und Relevanz von Open Access zu Textpublikationen, Open Access zu Forschungsdaten, Open Access zu Forschungssoftware, Open Review und Open Metrics in der Soziologie.

**Virtue Ethics in the Conduct and Governance of Social Science Research** Apr 24 2022 This edited collection focuses on the virtue theory and the ethics of social science research.

*Future Communication, Information and Computer Science* Feb 29 2020 The 2014 International Conference on Future Communication, Information and Computer Science (FCICS 2014) was held May 22-23, 2014 in Beijing, China. The objective of FCICS 2014 was to provide a platform for researchers, engineers and academics as well as industrial professionals from all over the world to present their research results and developm

Critical Issues and Bold Visions for Science Education Dec 09 2020 Critical Issues and Bold Visions for Science Education addresses diverse critical issues using rich theoretical frameworks and methodologies, and while retaining complexity, offers transformative visions within a context of political tensions, historical legacies, and grand challenges associated with Anthropocene.

**Modeling and Computation in Engineering III** Aug 24 2019 The demands of modeling and computation in engineering are rapidly growing as a multidisciplinary area with connections to engineering, mathematics and computer science. Modeling and Computation in Engineering III contains 45 technical papers from the 3rd International Conference on Modeling and Computation in Engineering (CMCE 2014, 28-29 June 2014, including 2014 Hydraulic Engineering and Environment Workshop, HEEW 2014). The conference serves as a major forum for researchers, engineers and manufacturers to share recent advances, discuss problems, and identify challenges associated with modeling technology, simulation technology and tools, computation methods and their engineering applications. The contributions showcase recent developments in the areas of civil engineering, hydraulic engineering, environmental engineering and systems engineering, and other related fields. The contributions in this book mainly focus on advanced theories and technology related to modeling and computation in civil engineering, hydraulic structures, hydropower and management, coastal reclamation and environmental assessment, flood control, irrigation and drainage, water resources and water treatment, environmental management and sustainability, waste management and environmental protection, pollution and control, geology and geography, mechanics in engineering, numerical software and applications. Although these papers represent only modest advances toward modeling and computation problems in engineering, some of the technologies might be key factors in the success of future engineering advances. It is expected that this book will stimulate new ideas, methods and applications in ongoing engineering advances. Modeling and Computation in Engineering III will be invaluable to academics and professionals in civil engineering, hydraulic engineering and environmental engineering.

**Empowering Science and Mathematics for Global Competitiveness** Jun 22 2019 This conference proceedings focuses on enabling science and mathematics practitioners and citizens to respond to the pressing challenges of global competitiveness and sustainable development by transforming research and teaching of science and mathematics. The proceedings consist of 82 papers presented at the Science and Mathematics International Conference (SMIC) 2018, organised by the Faculty of Mathematics and Natural Sciences, Universitas Negeri Jakarta, Indonesia. The proceedings are organised in four parts: Science, Science Education, Mathematics, and Mathematics Education. The papers contribute to our understanding of important contemporary issues in science, especially nanotechnology, materials and environmental science; science education, in particular, environmental sustainability, STEM and STEAM education, 21st century skills, technology education, and green chemistry; and mathematics and its application in statistics, computer science, and mathematics education.

Success with STEM Mar 24 2022 Success with STEM is an essential resource, packed with advice and ideas to support and enthuse all those involved in the planning and delivery of STEM in the secondary school. It offers guidance on current issues and priority areas to help you make informed judgements about your own practice and argue for further support for your subject in school. It explains current initiatives to enhance STEM teaching and offers a wide range of practical activities to support exciting teaching and learning in and beyond the classroom. Illustrated with examples of successful projects in real schools, this friendly, inspiring book explores: Innovative teaching ideas to make lessons buzz Activities for successful practical work Sourcing additional funding Finding and making the most of the best resources STEM outside the classroom Setting-up and enhancing your own STEM club Getting involved in STEM competitions, fairs and festivals Promoting STEM careers and tackling stereotypes Health, safety and legal issues Examples of international projects An wide-ranging list of project and activity titles Enriched by the authors' extensive experience and work with schools, Success with STEM is a rich compendium for all those who want to develop outstanding lessons and infuse a life-long interest in STEM learning in their students. The advice and guidance will be invaluable for all teachers, subject leaders, trainee teachers and NQTs.

An Unworthy Future Mar 31 2020 It is difficult to find an area of public policy more plagued by misunderstanding than energy policy. Even worse, every time the subject is raised, we are obligated to get mired in pointless arguments about the weather. This book helps set the record straight. Not convinced? Consider some of these inconvenient truths: The cost of 'green energy' climate remediation is anywhere from 10-to-1,000 times greater than the damage from the climate change it attempts to alleviate. Germany, the world's leader in solar energy, will spend more than \$280 billion by 2030 on solar subsidies. But all of that investment will only forestall 22nd century global warming by 37 hours. Obama's carbon tax would cost Americans \$1.2 trillion over just ten years. But it would only reduce the midrange 3 degree modeled 22nd century global temperature increase by 0.038 degrees Celsius. At their current emissions growth rate, it will take China nine months to replace the entire U.S. emissions cut that Obama wants to achieve over seven years, at a staggering cost in American jobs and lost economic growth. The U.S. biofuel program imposes a cost on consumers 9,862 times greater than any climate benefit they or their distant progeny will ever

derive. This is not another skeptical global warming polemic but an economic evaluation of how and why green energy will fail. The world has too many pressing needs. For the money Obama squandered on just a single bankrupt crony solar company, the U.S. could have prevented 300,000 childhood malaria deaths in poor countries. A thoroughly researched, heavily documented book by an expert in his field, it will demonstrate in meticulous detail how wasteful and economically inefficient Obama's 'green energy' dead end future will be compared to other worthy alternatives. It's time to end the hysterical climate cynicism and get on humanity's side.

The Social Sciences in the Asian Century Oct 07 2020 In this collection of essays, we reflect on what it means to practise the social sciences in the twenty-first century. The book brings together leading social scientists from the Asia-Pacific region. We argue for the benefit of dialogue between the diverse theories and methods of social sciences in the region, the role of the social sciences in addressing real-world problems, the need to transcend national boundaries in addressing regional problems, and the challenges for an increasingly globalised higher education sector in the twenty-first century. The chapters are a combination of theoretical reflections and locally focused case studies of processes that are embedded in global dynamics and the changing geopolitics of knowledge. In an increasingly connected world, these reflections will be of global relevance

*Abominable Science!* Oct 31 2022 "A sharp analysis of the quest for unreal critters?cryptids, as they are called?and the people who pursue them . . . entertaining and thoroughly documented." —The Wall Street Journal Throughout our history, humans have been captivated by mythic beasts and legendary creatures. Tales of Bigfoot, the Yeti, and the Loch Ness monster are part of our collective experience. Now comes a book from two dedicated investigators that explores and elucidates the fascinating world of cryptozoology. Daniel Loxton and Donald R. Prothero have written an entertaining, educational, and definitive text on cryptids, presenting the arguments both for and against their existence and systematically challenging the pseudoscience that perpetuates their myths. After examining the nature of science and pseudoscience and their relation to cryptozoology, Loxton and Prothero take on Bigfoot; the Yeti, or Abominable Snowman, and its cross-cultural incarnations; the Loch Ness monster and its highly publicized sightings; the evolution of the Great Sea Serpent; and Mokele Mbembe, or the Congo dinosaur. They conclude with an analysis of the psychology behind the persistent belief in paranormal phenomena, identifying the major players in cryptozoology, discussing the character of its subculture, and considering the challenge it poses to clear and critical thinking in our increasingly complex world. "As valuable for its analysis of the hunted as it is for the light it shines on the still-hopeful hunters." —Publishers Weekly "Highly recommended for readers looking for scientific but accessible evaluations of the existence of five notable cryptids that have captured our imaginations." —Library Journal (starred review)

STEM Integration in K-12 Education Nov 07 2020 STEM Integration in K-12 Education examines current efforts to connect the STEM disciplines in K-12 education. This report identifies and characterizes existing approaches to integrated STEM education, both in formal and after- and out-of-school settings. The report reviews the evidence for the impact of integrated approaches on various student outcomes, and it proposes a set of priority research questions to advance the understanding of integrated STEM education. STEM Integration in K-12 Education proposes a framework to provide a common perspective and vocabulary for researchers, practitioners, and others to identify, discuss, and investigate specific integrated STEM initiatives within the K-12 education system of the United States. STEM Integration in K-12 Education makes recommendations for designers of integrated STEM experiences, assessment developers, and researchers to design and document effective integrated STEM education. This report will help to further their work and improve the chances that some forms of integrated STEM education will make a positive difference in student learning and interest and other valued outcomes.

**Science and Diplomacy** Sep 17 2021 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?

**Routledge Handbook of Public Communication of Science and Technology** Jul 04 2020 Communicating science and technology is a high priority of many research and policy institutions, a concern of many other private and public bodies, and an established subject of training and education. Over the past few decades, the field has developed and expanded significantly, both in terms of professional practice and in terms of research and reflection. The Routledge Handbook of Public Communication of Science and Technology provides a state-of-the-art review of this fast-growing and increasingly important area, through an examination of the research on the main actors, issues, and arenas involved. In this brand-new revised edition, the book brings the reviews up-to-date and deepens the analysis. As well as substantial reworking of many chapters, it gives more attention to digital media and the global aspects of science communication, with the inclusion of four new chapters. Several new contributors are added to leading mass-communication scholars, sociologists, public-relations practitioners, science writers, and others featured herein. With key questions for further discussion highlighted in each chapter, the handbook is a student-friendly resource and its scope and expert contributors mean it is also ideal for both practitioners and professionals working in the field. Combining the perspectives of different disciplines and of different geographical and cultural contexts, this original text provides an interdisciplinary and global approach to the public communication of science and technology. It is a valuable resource for students, researchers, educators, and professionals in media and journalism, sociology, the history of science, and science and technology.

**Exemplary Practices in Marine Science Education** Oct 19 2021 This edited volume is the premier book dedicated exclusively to marine science education and improving ocean literacy, aiming to showcase exemplary practices in marine science education and educational research in this field on a global scale. It informs, inspires, and provides an intellectual forum for practitioners and researchers in this particular context. Subject areas include sections on marine science education in formal, informal and community settings. This book will be useful to marine science education practitioners (e.g. formal and informal educators) and researchers (both education and science).

**Graphene Science Handbook** Jun 14 2021 Explore the Practical Applications and Promising Developments of Graphene The Graphene Science Handbook is a six-volume set that describes graphene's special structural, electrical, and chemical properties. The book considers how these properties can be used in different applications (including the development of batteries, fuel cells, photovoltaic cells, and supercapacitors based on graphene) and produced on a massive and global scale. Volume One: Fabrication Methods Volume Two: Nanostructure and Atomic Arrangement Volume Three: Electrical and Optical Properties Volume Four: Mechanical and Chemical Properties Volume Five: Size-Dependent Properties Volume Six: Applications and Industrialization This handbook describes the fabrication methods of graphene; the nanostructure and atomic arrangement of graphene; graphene's electrical and optical properties; the mechanical and chemical properties of graphene; the size effects in graphene, characterization, and applications based on size-affected properties; and the application and industrialization of graphene. Volume six is dedicated to the application and industrialization of graphene and covers: The design of graphene- and biomolecule-based nanosensors and nanodevices The use of graphene-based field-effect-transistor (GFET)-like structures as sensing

substrates and DNA aptamers as sensing elements Recent advances in graphene-based DNA sensors The antibacterial properties of graphene-based nanomaterial (NM) The chemical and physical properties of graphene and its current uses The development of sensitive and selective field-effect transistors (FET) biosensors based on graphene The unique properties of ordered graphene (G) Various methods currently employed for the production of graphene nanocomposites The supramolecular chemistry of graphene derivatives, and more

**Terrestrial Ecosystem Research Infrastructures** Nov 27 2019 Terrestrial Ecosystem Research Infrastructures: Challenges and Opportunities reveals how environmental research infrastructures (RIs) provide new valuable insights on ecological processes that cannot be realized by more traditional short-term funding cycles and are integral to understand our changing world. This book bonds the latest state-of-the-science knowledge on environmental RIs, the challenges in creating them, their place in addressing scientific frontiers, and the new perspectives they bear. Each chapter is thoughtfully invested with fresh viewpoints from the environmental RI vantage as the authors explore and explain many topics such as the rationale and challenges in global change, field and modeling platforms, new tools, challenges in data management, distilling information into knowledge, and new developments in large-scale RIs. This work serves an advantageous guide for academics and practitioners alike who aim to deepen their knowledge in the field of science and project management, and logistics operations.

*Citizen Science* Feb 08 2021 Citizen science, the active participation of the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens' wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of science today.

**Forensic Soil Science and Geology** Oct 26 2019 Forensic soil science and geology provides information and operational support to assist the police and law enforcement with criminal and environmental investigations. These include: crime scene examination and the collection of soil and other materials; analysis and interpretation of this geological trace evidence; and searches associated with homicide graves, counter-terrorism and serious and organized crime. This volume provides new and sophisticated field and laboratory methods and operational casework.

*The Science of Citizen Science* Mar 12 2021 This open access book discusses how the involvement of citizens into scientific endeavors is expected to contribute to solve the big challenges of our time, such as climate change and the loss of biodiversity, growing inequalities within and between societies, and the sustainability turn. The field of citizen science has been growing in recent decades. Many different stakeholders from scientists to citizens and from policy makers to environmental organisations have been involved in its practice. In addition, many scientists also study citizen science as a research approach and as a way for science and society to interact and collaborate. This book provides a representation of the practices as well as scientific and societal outcomes in different disciplines. It reflects the contribution of citizen science to societal development, education, or innovation and provides an overview of the field of actors as well as on tools and guidelines. It serves as an introduction for anyone who wants to get involved in and learn more about the science of citizen science.

*EHF Science Olympiad Solved Question Paper Class 3 (2013)* Dec 21 2021 This will help the aspirants to assess the pattern of the real examination paper, practice and prepare for cracking the top ranks.

*EHF Science Olympiad Solved Question Paper Class 5 (2013)* Jan 22 2022 This will help the aspirants to assess the pattern of the real examination paper, practice and prepare for cracking the top ranks.

*Writing and Publishing Science Research Papers in English* Aug 05 2020 This book provides a comprehensive review of the current knowledge on writing and publishing scientific research papers and the social contexts. It deals with both English and non-Anglophone science writers, and presents a global perspective and an international focus. The book collects and synthesizes research from a range of disciplines, including applied linguistics, the sociology of science, sociolinguistics, bibliometrics, composition studies, and science education. This multidisciplinary approach helps the reader gain a solid understanding of the subject. Divided into three parts, the book considers the context of scientific papers, the text itself, and the people involved. It explains how the typical sections of scientific papers are structured. Standard English scientific writing style is also compared with science papers written in other languages. The book discusses the strengths and challenges faced by people with different degrees of science writing expertise and the role of journal editors and reviewers.

**Follow the science - aber wohin?** Jul 16 2021 Auf dem Weg in die Expertokratie? In der Corona-Pandemie waren zuverlässige Informationen gefragt wie nie. Der Rat der Wissenschaft wurde gesucht, die Reichweiten traditioneller Medien stiegen. Gleichzeitig rangen Journalist:innen, Wissenschaftler:innen und Politiker:innen um Deutungs- und Entscheidungshoheit. Unter hohem Handlungsdruck suchte die Politik in der Wissenschaft nicht nur nach Ideen für wirksame Eingriffe ins gesellschaftliche Regelwerk, sondern auch nach Legitimation für unbequeme Entscheidungen. Markiert die Corona-Krise eine Zäsur im Verhältnis von Medien, Wissenschaft und Politik? Wie ordneten die Medien hierzulande wissenschaftliche Daten ein, welchen Expert:innen gaben sie eine Bühne? Was braucht es, um kommende Krisen besser zu bewältigen? Die Beiträger:innen dieses Bandes suchen nach Antworten auf diese und viele andere Fragen. Mit Beiträgen von Sibylle Anderl, Jakob Augstein, Alexander Bogner, Rafaela von Bredow, Markus Gabriel, Caspar Hirschi, Wolfgang Merkel, Olivia Mitscherlich-Schönherr, Barbara Prainsack u.a.

**Open Science: the Very Idea** Sep 29 2022 This open access book provides a broad context for the understanding of current problems of science and of the different movements aiming to improve the societal impact of science and research. The author offers insights with regard to ideas, old and new, about science, and their historical origins in philosophy and sociology of science, which is of interest to a broad readership. The book shows that scientifically grounded knowledge is required and helpful in understanding intellectual and political positions in various discussions on the grand challenges of our time and how science makes impact on society. The book reveals why interventions that look good or even obvious, are often met with resistance and are hard to realize in practice. Based on a thorough analysis, as well as personal experiences in aids research, university administration and as a science observer, the author provides - while being totally open regarding science's limitations- a realistic narrative about how research is conducted, and how reliable 'objective' knowledge is produced. His idea of science, which draws heavily on American pragmatism, fits in with the global Open Science movement. It is argued that Open Science is a truly and historically unique movement in that it translates the analysis of the problems of science into major institutional actions of system change in order to improve academic culture and the impact of science, engaging all actors in the field of science and academia.

**A History of Forensic Science** Jun 26 2022 How and when did forensic science originate in the UK? This question demands our attention because our understanding of present-day forensic science is vastly enriched through gaining an appreciation of what went before. A History of Forensic Science is the first book to consider the wide spectrum of influences which went into creating the discipline in Britain in the first

part of the twentieth century. This book offers a history of the development of forensic sciences, centred on the UK, but with consideration of continental and colonial influences, from around 1880 to approximately 1940. This period was central to the formation of a separate discipline of forensic science with a distinct professional identity and this book charts the strategies of the new forensic scientists to gain an authoritative voice in the courtroom and to forge a professional identity in the space between forensic medicine, scientific policing, and independent expert witnessing. In so doing, it improves our understanding of how forensic science developed as it did. This book is essential reading for academics and students engaged in the study of criminology, the history of forensic science, science and technology studies and the history of policing.

Capturing Change in Science, Technology, and Innovation Sep 25 2019 Since the 1950s, under congressional mandate, the U.S. National Science Foundation (NSF) - through its National Center for Science and Engineering Statistics (NCSES) and predecessor agencies - has produced regularly updated measures of research and development expenditures, employment and training in science and engineering, and other indicators of the state of U.S. science and technology. A more recent focus has been on measuring innovation in the corporate sector. NCSES collects its own data on science, technology, and innovation (STI) activities and also incorporates data from other agencies to produce indicators that are used for monitoring purposes - including comparisons among sectors, regions, and with other countries - and for identifying trends that may require policy attention and generate research needs. NCSES also provides extensive tabulations and microdata files for in-depth analysis. *Capturing Change in Science, Technology, and Innovation* assesses and provides recommendations regarding the need for revised, refocused, and newly developed indicators of STI activities that would enable NCSES to respond to changing policy concerns. This report also identifies and assesses both existing and potential data resources and tools that NCSES could exploit to further develop its indicators program. Finally, the report considers strategic pathways for NCSES to move forward with an improved STI indicators program. The recommendations offered in *Capturing Change in Science, Technology, and Innovation* are intended to serve as the basis for a strategic program of work that will enhance NCSES's ability to produce indicators that capture change in science, technology, and innovation to inform policy and optimally meet the needs of its user community.

Advancing Women in Science Aug 17 2021 Many countries have implemented policies to increase the number and quality of scientific researchers as a means to foster innovation and spur economic development and progress. To that end, grounded in a view of women as a rich, yet underutilized knowledge and labor resource, a great deal of recent attention has focused on encouraging women to pursue education and careers in science — even in countries with longstanding dominant patriarchal regimes. Yet, overall, science remains an area in which girls and women are persistently disadvantaged. This book addresses that situation. It bridges the gap between individual- and societal-level perspectives on women in science in a search for systematic solutions to the challenge of building an inclusive and productive scientific workforce capable of creating the innovation needed for economic growth and societal wellbeing. This book examines both the role of gender as an organizing principle of social life and the relative position of women scientists within national and international labor markets. Weaving together and engaging research on globalization, the social organization of science, and gendered societal relations as key social forces, this book addresses critical issues affecting women's contributions and participation in science. Also, while considering women's representation in science as a whole, examinations of women in the chemical sciences, computing, mathematics and statistics are offered as examples to provide insights into how differing disciplinary cultures, functional tasks and socio-historical conditions can affect the advancement of women in science relative to important variations in educational and occupational realities. Edited by three social scientists recognized for their expertise in science and technology policy, education, workforce participation, and stratification, this book includes contributions from an intellectually diverse group of international scholars and analysts and features compelling cases and initiatives from around the world, with implications for research, industry practice, education and policy development.

**International Business, Trade and Institutional Sustainability** Jun 02 2020 This book addresses the gap between innovative technologies and their adoption. It showcases research, feasibility studies and projects that demonstrate a variety of ways to implement environmental sustainability in globally operating firms, as well as best practices in areas such as international management, adoption of cleaner technologies, global supply chains, greenhouse gas emission reduction, and transportation. The book provides state-of-the-art information on issues including: Global sustainable management practices Global sustainable food and agricultural markets Global responsible mining and energy Global sustainable sourcing Global sustainable transportation Global conservation innovations and investments Presenting expert contributions from industry, government and academia, discussing a variety of themes and perspectives on the topic "international business as a positive force of environmental sustainability" it is a vital resource for stakeholders in the international business community.

**Coalgebraic Methods in Computer Science** Feb 20 2022 This book constitutes the thoroughly refereed post-proceedings of the 12th International Workshop on Coalgebraic Methods in Computer Science, CMCS 2014, colocated with ETAPS 2014, held in Grenoble, France, in April 2014. The 10 revised full papers were carefully reviewed and selected from 20 submissions. Also included are three invited talks. The papers cover a wide range of topics in the theory, logics and applications of coalgebras.

Forensic Science and the Administration of Justice May 26 2022 Uniting forensics, law, and social science in meaningful and relevant ways, *Forensic Science and the Administration of Justice*, by Kevin J. Strom and Matthew J. Hickman, is structured around current research on how forensic evidence is being used and how it is impacting the justice system. This unique book—written by nationally known scholars in the field—includes five sections that explore the demand for forensic services, the quality of forensic services, the utility of forensic services, post-conviction forensic issues, and the future role of forensic science in the administration of justice. The authors offer policy-relevant directions for both the criminal justice and forensic fields and demonstrate how the role of the crime laboratory in the American justice system is evolving in concert with technological advances as well as changing demands and competing pressures for laboratory resources.

The Politics and Science of Prevision Apr 12 2021 This book inquires into the use of prediction at the intersection of politics and academia, and reflects upon the implications of future-oriented policy-making across different fields. The volume focuses on the key intricacies and fallacies of prevision in a time of complexity, uncertainty, and unpredictability. The first part of the book discusses different academic perspectives and contributions to future-oriented policy-making. The second part discusses the role of future knowledge in decision-making across different empirical issues such as climate, health, finance, bio- and nuclear weapons, civil war, and crime. It analyses how prediction is integrated into public policy and governance, and how in return governance structures influence the making of knowledge about the future. Contributors integrate two analytical dimensions in their chapters: the epistemology of prevision and the political and ethical implications of prevision. In this way, the volume contributes to a better understanding of the complex interaction and feedback loops between the processes of creating knowledge about the future and the application of this future knowledge in public policy and governance. This book will be of much interest to students of security studies, political science, sociology, technology studies, and International Relations.

**Analyzing the Role of Citizen Science in Modern Research** Nov 19 2021 As the need for sustainable development practices around the world continues to grow, it has become imperative for citizens to become actively engaged in the global transition. By evaluating data collected from various global programs, researchers are able to identify strategies and challenges in implementing civic engagement initiatives.

Analyzing the Role of Citizen Science in Modern Research focuses on analyzing data on current initiatives and best practices in citizen engagement and education programs across various disciplines. Highlighting emergent research and application techniques within citizen science initiatives, this publication appeals to academicians, researchers, policy makers, government officials, technology developers, advanced-level students and program developers interested in launching or improving citizen science programs across the globe.

**East Asia and Pacific Economic Update April 2014** Jul 24 2019 Developing countries in the East Asia Pacific region will see stable economic growth this year, bolstered by a recovery in high-income economies and the market's modest response so far to the Federal Reserve's tapering of its quantitative easing, according to the East Asia Pacific Economic Update. Developing East Asia will grow by 7.1 percent this year, largely unchanged from 2013, the report says. As a result, East Asia remains the fastest growing region in the world, despite a slowdown from the average growth rate of 8.0 percent from 2009 to 2013. In China, growth will ease slightly, to 7.6 percent this year from 7.7 percent in 2013. Excluding China, the developing countries in the region will grow by 5.0 percent, slightly down from 5.2 percent last year.

**Proceedings of the Sixteenth International Conference on Management Science and Engineering Management – Volume 1** Dec 29 2019 This book covers many hot topics, including theoretical and practical research in many areas such as dynamic analysis, machine learning, supply chain management, operations management, environmental management, uncertainty, and health and hygiene. It showcases advanced management concepts and innovative ideas. The 16th International Conference on Management Science and Engineering Management (2022 ICMSEM) will be held in Ankara, Turkey, during August 3-6, 2022. ICMSEM has always been committed to promoting innovation management science (M-S) and engineering management (EM) academic research and development. The book provides researchers and practitioners in the field of Management Science and Engineering Management (MSEM) with the latest, cutting-edge thinking and research in the field. It will appeal to readers interested in these fields, especially those looking for new ideas and research directions.

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