
R03 Gap Analysis And Assessment Tool Wizard Learning

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A Practical Guide to Writing a Ruth L. Kirschstein NRSA Grant National Academies Press

Based upon a special symposium sponsored by the U.S. Environmental Protection Agency (EPA), Remote Sensing and GIS Accuracy Assessment evaluates the important scientific elements related to the performance of accuracy assessments for remotely sensed data, GIS data analysis, and integration products. Scientists from federal, state, and local governments, academia, and nongovernmental organizations present technical papers which examine sampling issues, reference data collection, edge and boundary effects, error matrix and fuzzy assessments, error budget analysis, and change detection accuracy assessment. This compilation contains 20 chapters that represent important symposium outcomes.

Replication and Transformation

SAGE Publications

As research in the geosciences and social sciences becomes increasingly dependent on computers, applications such as geographical information systems are becoming indispensable tools. But the digital representations of phenomena that these systems require are often of poor quality, leading to inaccurate results, uncertainty, error propagation, and

Vector-Borne Diseases National Academies Press

A Practical Guide to Writing a Ruth L. Kirschstein NRSA Grant provides F-Series

grant applicants and mentors with insider knowledge on the process by which these grants are reviewed, the biases that contribute to the reviews, the extent of information required in an NRSA training grant, a deeper understanding of the exact purpose of each section of the application, and key suggestions and recommendations on how to best construct each and every section of the application. A Practical Guide to Writing a Ruth L. Kirschstein NRSA Grant is a solid resource for trainees and their mentors to use as a guide when constructing F30, F31, and F32 grant applications. Covers F30, F31, and F32 grant applications Detailed overview of the review process Key suggestions on how to best construct each section of the application Includes a checklist of required items

Estimation, Open Science, and

Beyond Springer Publishing Company

"Eleven fully updated chapters include entries on the links between health and discrimination, income inequality, social networks and emotion, while four all-new chapters examine the role of policies in shaping health, including how to translate evidence into action with multi-level interventions."

The Health of Lesbian, Gay, Bisexual, and Transgender People National Academies Press

Data are becoming the proverbial coin of the digital realm: a research commodity that might purchase reputation credit in a disciplinary culture of data sharing, or buy transparency when faced with funding agency mandates or publisher scrutiny. Unlike most monetary systems, however, digital data can flow in all too great an abundance. Not only does this currency actually grow on trees, but it

comes from animals, books, thoughts, and each of us! And that is what makes data curation so essential. The abundance of digital research data challenges library and information science professionals to harness this flow of information streaming from research discovery and scholarly pursuit and preserve the unique evidence for future use. Volume One of *Curating Research Data* explores the variety of reasons, motivations, and drivers for why data curation services are needed in the context of academic and disciplinary data repository efforts. Twelve chapters, divided into three parts, take an in-depth look at the complex practice of data curation as it emerges around us. Part I sets the stage for data curation by describing current policies, data sharing cultures, and collaborative efforts currently underway that impact potential services. Part II brings several key issues, such as cost recovery and marketing strategy, into focus for practitioners when considering how to put data curation services in action. Finally, Part III describes the full lifecycle of data by examining the ethical and practical reuse issues that data curation practitioners must consider as we strive to prepare data for the future. Digital data is ubiquitous and rapidly reshaping how scholarship progresses now and into the future. The information expertise of librarians can help ensure the resiliency of digital data, and the information it represents, by addressing how the meaning, integrity, and provenance of digital data generated by researchers today will be captured and conveyed to future researchers.

[Understanding the Environmental, Human Health, and Ecological Connections: Workshop Summary](#) Local Government & Public Serv

Since the end of the Second World War, the United States has developed the world's preeminent system for biomedical research, one that has given rise to revolutionary medical advances as well as a dynamic and innovative business sector generating high-quality jobs and powering economic output and exports for the U.S. economy. However, there is a growing concern that the biomedical research enterprise is beset by several core challenges that undercut its vitality, promise, and productivity and that could diminish its critical role in the nation's health and innovation in the biomedical industry. Among the most salient of these challenges is the gulf between the burgeoning number of scientists qualified to participate in this system as academic researchers and the elusive opportunities to establish long-term research careers in academia. The patchwork of measures to address the challenges facing young scientists that has emerged over the years has allowed the U.S. biomedical enterprise to continue to make significant scientific and medical advances. These measures, however, have not resolved the structural vulnerabilities in the system, and in some cases come at a great opportunity cost for young scientists. These unresolved issues could diminish the nation's ability to recruit the best minds from all sectors of the U.S. population to careers in biomedical research and raise concerns about a system that may favor increasingly conservative research proposals over high-risk, innovative ideas. *The Next Generation of Biomedical and Behavioral Sciences Researchers: Breaking Through* evaluates the factors that influence transitions into independent research careers in the biomedical and behavioral sciences and offers recommendations to

improve those transitions. These recommendations chart a path to a biomedical research enterprise that is competitive, rigorous, fair, dynamic, and can attract the best minds from across the country.

National Institutes of Health Research Grants CRC Press

Rethinking Water

Management Innovative Approaches to Contemporary Issues Earthscan

A Practical Primer Rethinking Water

Management Innovative Approaches to Contemporary Issues

Vector-borne infectious diseases, such as malaria, dengue fever, yellow fever, and plague, cause a significant fraction of the global infectious disease burden; indeed, nearly half of the world's population is infected with at least one type of vector-borne pathogen (CIESIN, 2007; WHO, 2004a). Vector-borne plant and animal diseases, including several newly recognized pathogens, reduce agricultural productivity and disrupt ecosystems throughout the world. These diseases profoundly restrict socioeconomic status and development in countries with the highest rates of infection, many of which are located in the tropics and subtropics. Although this workshop summary provides an account of the individual presentations, it also reflects an important aspect of the Forum philosophy. The workshop functions as a dialogue among representatives from different sectors and allows them to present their beliefs about which areas may merit further attention. These proceedings summarize only the statements of participants in the workshop and are not intended to be an exhaustive exploration of the subject matter or a representation of consensus evaluation. Vector-Borne Diseases : Understanding the Environmental,

Human Health, and Ecological Connections, Workshop Summary (Forum on Microbial Threats) summarizes this workshop.

Social Epidemiology Routledge

Women suffer disproportionate rates of chronic disease and disability from some conditions, and often have high out-of-pocket health care costs. The passage of the Patient Protection and Affordable Care Act of 2010 (ACA) provides the United States with an opportunity to reduce existing health disparities by providing an unprecedented level of population health care coverage. The expansion of coverage to millions of uninsured Americans and the new standards for coverage of preventive services that are included in the ACA can potentially improve the health and well-being of individuals across the United States. Women in particular stand to benefit from these additional preventive health services. Clinical Preventive Services for Women reviews the preventive services that are important to women's health and well-being. It recommends that eight preventive health services for women be added to the services that health plans will cover at no cost. The recommendations are based on a review of existing guidelines and an assessment of the evidence on the effectiveness of different preventive services. The services include improved screening for cervical cancer, sexually transmitted infections, and gestational diabetes; a fuller range of contraceptive education, counseling, methods, and services; services for pregnant women; at least one well-woman preventive care visit annually; and screening and counseling for interpersonal and domestic violence, among others. Clinical Preventive Services for Women identifies critical gaps in preventive

services for women as well as measures that will further ensure optimal health and well-being. It can serve as a comprehensive guide for federal government agencies, including the Department of Health and Human Services and the Center for Disease Control and Prevention; state and local government agencies; policy makers; health care professionals; caregivers, and researchers.

America's Science and Technology Talent at the Crossroads CRC Press

In order for the United States to maintain the global leadership and competitiveness in science and technology that are critical to achieving national goals, we must invest in research, encourage innovation, and grow a strong and talented science and technology workforce. *Expanding Underrepresented Minority Participation* explores the role of diversity in the science, technology, engineering and mathematics (STEM) workforce and its value in keeping America innovative and competitive. According to the book, the U.S. labor market is projected to grow faster in science and engineering than in any other sector in the coming years, making minority participation in STEM education at all levels a national priority. *Expanding Underrepresented Minority Participation* analyzes the rate of change and the challenges the nation currently faces in developing a strong and diverse workforce. Although minorities are the fastest growing segment of the population, they are underrepresented in the fields of science and engineering. Historically, there has been a strong connection between increasing educational attainment in the United States and the growth in and global leadership of the economy. *Expanding Underrepresented Minority Participation*

suggests that the federal government, industry, and post-secondary institutions work collaboratively with K-12 schools and school systems to increase minority access to and demand for post-secondary STEM education and technical training. The book also identifies best practices and offers a comprehensive road map for increasing involvement of underrepresented minorities and improving the quality of their education. It offers recommendations that focus on academic and social support, institutional roles, teacher preparation, affordability and program development. *Intervention Research* National Academies Press

Mixed Methods in Health Sciences Research: A Practical Primer, by Leslie Curry and Marcella Nunez-Smith, presents key theories, concepts, and approaches in an accessible way. Packed with illustrations from the health sciences literature, this ready-to-use guidebook shows readers how to design, conduct, review, and use mixed methods research findings. Helpful checklists, figures, tables, templates, and much more give readers examples that will elevate the quality of their research, facilitate communication about their methods, and improve efficiency over the course of their projects. Real-world examples and insights from mixed methods researchers provide unique perspectives on every aspect of mixed methods research. This book successfully pulls together foundational mixed methods principles, synthesizes the knowledge base in the field, and translates it for a health science researcher audience. "The content is highly applicable to real life research teams in the areas of clinical research, health services research, and implementation science, providing sound

content and practical advice. The authors have synthesized and pull key concepts from a variety of sources to provide a concise resource.” —Linda M. Herrick, South Dakota State University “Everything from the references, to the topics, checklists, conceptual graphic representations, and organizers, interviews, and resources, all contribute to the content and aid with understanding and/or application. ... It addresses specific MM research as it pertains to health sciences in a way that other texts just do not even attempt.” —Denise L. Winsor, University of Memphis “[This text is] a very pragmatic approach to mixed methods research; excellent resources, tables, and figures [are] provided, along with cases and examples of value to researchers and grant reviewers. Its relevance to practice, education, and research, as well as to potential policy implications, is a strong focus that would make this a valued textbook for any researcher!” ? —Karen Devereaux Melillo, University of Massachusetts Lowell “The text is cutting edge. It leads the way with its focus on team dynamics. [The authors] succeed in making the book relevant and practical. They also articulate a number of key insights in the area of mixed methods that rarely get addressed, such as teams and conflict. Great read with a lot of good, practical information for mixed methods researchers at all levels. The practical approach of this text makes it an innovative and valuable resource.” —John G. Schumacher, University of Maryland

Invisible Women National Academies Press

If water resources are to be distributed efficiently, equitably and cost-effectively in this rapidly changing world, then it is clear that current water management

practices are no longer feasible. Innovative approaches are required to meet the increasing water demands of a growing world population and economy and the needs of the ecosystems supporting them. New approaches have to be employed at global, national and local levels. In *Rethinking Water Management*, a new generation of water experts from around the world examine the critical challenges confronting the water profession, including rainwater and groundwater management, recycling and reuse, water rights, transboundary access to water and financing of water. They offer important new perspectives on the use, management and conservation of fresh water, in terms of both quantity and quality, for the domestic, agricultural and industrial sectors, and show how a new set of paradigms can be applied to successfully manage water for the future. Caroline Figueres is Head of the Urban Infrastructure Department at UNESCO-IHE Water Education Institute in The Netherlands. Cecilia Tortajada is Vice President of the Third World Centre for Water Management in Mexico and Vice President-elect of the International Water Resources Association. Johan Rockström is Water Resources Expert at UNESCO-IHE.

From Cancer Patient to Cancer Survivor Springer Nature

This fourth edition of *Surgery of the Anus, Rectum and Colon* continues to redefine the field, with its comprehensive coverage of common and rare colorectal conditions, advances in the molecular biology and genetics of colorectal diseases, and new laparoscopic techniques. Contributions from international experts on specialized topics and various new illustrations ensure that the extensive text is not only

current and authoritative, but easy to understand. No other book provides the expertise of a world-class editorial team with the cutting-edge knowledge you need to master colorectal surgery.

Breaking Through Academic Press
Advancing the development, validation, and use of patient-reported outcome (PRO) measures, *Patient-Reported Outcomes: Measurement, Implementation and Interpretation* helps readers develop and enrich their understanding of PRO methodology, particularly from a quantitative perspective. Designed for biopharmaceutical researchers and others in the health sciences community, it provides an up-to-date volume on conceptual and analytical issues of PRO measures. The book discusses key concepts relating to the measurement, implementation, and interpretation of PRO measures. It covers both introductory and advanced psychometric and biostatistical methods for constructing and analyzing PRO measures. The authors include many relevant real-life applications based on their extensive first-hand experiences in the pharmaceutical industry. They implement a wealth of simulated datasets to illustrate concepts and heighten understanding based on practical scenarios. For readers interested in conducting statistical analyses of PRO measures and delving more deeply into the analytic details, most chapters contain SAS code and output that illustrate the methodology. Along with providing numerous references, the book highlights current regulatory guidelines.

Practical Guidance for Maturing Organizations Oxford University Press
The purpose of risk assessment is to support science-based decisions about

how to solve complex societal problems. Indeed, the problems humankind faces in the 21st century have many social, political, and technical complexities. Environmental risk assessment in particular is of increasing importance as health and safety regulations grow and become more complicated.

Environmental Risk Assessment: A Toxicological Approach, 2nd Edition looks at various factors relating to exposure and toxicity, human health, and risk. In addition to the original chapters being updated and expanded upon, four new chapters discuss current software and platforms that have recently been developed and provide examples of risk characterizations and scenarios. Features: Introduces the science of risk assessment—past, present, and future Provides environmental sampling data for conducting practice risk assessments Considers how bias and conflict of interest affect science-based decisions in the 21st century Includes fully worked examples, case studies, discussion questions, and suggestions for additional reading Discusses new software and computational platforms that have developed since the first edition Aimed at the next generation of risk assessors and students who need to know more about developing, conducting, and interpreting risk assessments, the book delivers a comprehensive view of the field, complete with sufficient background to enable readers to probe for themselves the science underlying the key issues in environmental risk.

EPA Publications Bibliography National Academies Press
Study & master economic and management sciences grade 8 has been especially developed by an experienced author team for the Curriculum and

Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in economic and management sciences.

Building a Foundation for Better Understanding Academic Press

Each year, child protective services receive reports of child abuse and neglect involving six million children, and many more go unreported. The long-term human and fiscal consequences of child abuse and neglect are not relegated to the victims themselves -- they also impact their families, future relationships, and society. In 1993, the National Research Council (NRC) issued the report, *Understanding Child Abuse and Neglect*, which provided an overview of the research on child abuse and neglect. *New Directions in Child Abuse and Neglect Research* updates the 1993 report and provides new recommendations to respond to this public health challenge. According to this report, while there has been great progress in child abuse and neglect research, a coordinated, national research infrastructure with high-level federal support needs to be established and implemented immediately. *New Directions in Child Abuse and Neglect Research* recommends an actionable framework to guide and support future child abuse and neglect research. This report calls for a comprehensive, multidisciplinary approach to child abuse and neglect research that examines factors related to both children and adults across physical, mental, and behavioral health domains--including those in child welfare, economic support, criminal justice, education, and health care systems--and assesses the needs of a variety of subpopulations. It should also clarify the causal pathways related

to child abuse and neglect and, more importantly, assess efforts to interrupt these pathways. *New Directions in Child Abuse and Neglect Research* identifies four areas to look to in developing a coordinated research enterprise: a national strategic plan, a national surveillance system, a new generation of researchers, and changes in the federal and state programmatic and policy response.

Lost in Transition Earthscan

Data is fundamental to the modern world. From economic development, to healthcare, to education and public policy, we rely on numbers to allocate resources and make crucial decisions. But because so much data fails to take into account gender, because it treats men as the default and women as atypical, bias and discrimination are baked into our systems. And women pay tremendous costs for this bias, in time, money, and often with their lives. Celebrated feminist advocate Caroline Criado Perez investigates shocking root cause of gender inequality and research in *Invisible Women*†, diving into women's lives at home, the workplace, the public square, the doctor's office, and more. Built on hundreds of studies in the US, the UK, and around the world, and written with energy, wit, and sparkling intelligence, this is a groundbreaking, unforgettable exposé that will change the way you look at the world.

Patient-Reported Outcomes Asprs Publications

With the risk of more than one in three getting cancer during a lifetime, each of us is likely to experience cancer, or know someone who has survived cancer. Although some cancer survivors recover with a renewed sense of life and purpose, what has often been ignored is

the toll taken by cancer and its treatment" on health, functioning, sense of security, and well-being. Long lasting effects of treatment may be apparent shortly after its completion or arise years later. The transition from active treatment to post-treatment care is critical to long-term health. From Cancer Patient to Cancer Survivor focuses on survivors of adult cancer during the phase of care that follows primary treatment. The book raises awareness of the medical, functional, and psychosocial consequences of cancer and its treatment. It defines quality health care for cancer survivors and identifies strategies to achieve it. The book also recommends

improvements in the quality of life of cancer survivors through policies that ensure their access to psychosocial services, fair employment practices, and health insurance. This book will be of particular interest to cancer patients and their advocates, health care providers and their leadership, health insurers, employers, research sponsors, and the public and their elected representatives. *A Toxicological Approach* Emerald Publishing Limited
Sections 1-2. Keyword Index.--Section 3. Personal author index.--Section 4. Corporate author index.-- Section 5. Contract/grant number index, NTIS order/report number index 1-E.--Section 6. NTIS order/report number index F-Z.

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