

The Sage Handbook Of Remote Sensing

Online research methods are popular, dynamic and fast-changing. Following on from the great success of the first edition, published in 2008, The SAGE Handbook of Online Research Methods, Second Edition offers both updates of existing subject areas and new chapters covering more recent developments, such as social media, big data, data visualization and CAQDAS. Bringing together the leading names in both qualitative and quantitative online research, this new edition is organised into nine sections: 1. Online Research Methods 2. Designing Online Research 3. Online Data Capture and Data Collection 4. The Online Survey 5. Digital Quantitative Analysis 6. Digital Text Analysis 7. Virtual Ethnography 8. Online Secondary Analysis: Resources and Methods 9. The Future of Online Social Research The SAGE Handbook of Online Research Methods, Second Edition is an essential resource for anyone interested in the contemporary practice of computer-mediated research and scholarship.

A volume in the three-volume Remote Sensing Handbook series, Land Resources Monitoring, Modeling, and Mapping with Remote Sensing documents the scientific and methodological advances that have taken place during the last 50 years. The other two volumes in the series are Remotely Sensed Data Characterization, Classification, and Accuracies, and Remo

The SAGE Handbook of Cultural Anthropology is the first instalment of The SAGE Handbook of the Social Sciences series and encompasses major specialities as well as key interdisciplinary themes relevant to the field. Globally, societies are facing major upheaval and change, and the social sciences are fundamental to the analysis of these issues, as well as the development of strategies for addressing them. This handbook provides a rich overview of the discipline and has a future focus whilst using international theories and examples throughout. The SAGE Handbook of Cultural Anthropology is an essential resource for social scientists globally and contains a rich body of chapters on all major topics relevant to the field, whilst also presenting a possible road map for the future of the field. Part 1: Foundations Part 2: Focal Areas Part 3: Urgent Issues Part 4: Short Essays: Contemporary Critical Dynamics

The process of learning qualitative research has altered dramatically and this Handbook explores the growth, change, and complexity within the topic and looks back over its history to assess the current state of the art, and indicate possible future directions. Moving beyond textbook rehearsals of standard issues, the book examines key methodological debates and conflicts, approaching them in a critical, discursive manner.

Fully updated and containing significant new material on photography, laser profiling and image processing, the third edition of this popular textbook covers a broad range of remote sensing applications and techniques across the Earth, environmental and planetary sciences. It focuses on physical principles, giving students a deeper understanding of remote sensing systems and their

possibilities, while remaining accessible to those with less mathematical training by providing a step-by-step approach to quantitative topics. Boxed examples, additional photos and numerous colour images engage students and show them how the theory relates to the many real-world applications. Chapter summaries, review questions and additional problems allow students to check their understanding of key concepts and practise handling real data for themselves. Supplementary online material includes links to freely available software, animations, computer programs, colour images and other web-based resources of interest.

"The definitive guide to a technology that succeeds or fails depending upon our ability to accommodate societal context and structures. This handbook is lucid, integrative, comprehensive and, above all, prescient in its interpretation of GIS implementation as a societal process." - Paul Longley, University College London

"This is truly a handbook - a book you will want to keep on hand for frequent reference and to which GIS professors should direct students entering our field... Selection of a few of the chapters for individual attention is difficult because each one contributes meaningfully to the overall message of this volume. An important collection of articles that will set the tone for the next two decades of discourse and research about GIS and society." - Journal of Geographical Analysis

Over the past twenty years research on the evolving relationship between GIS and Society has been expanding into a wide variety of topical areas, becoming in the process an increasingly challenging and multifaceted endeavour. The SAGE Handbook of GIS and Society is a retrospective and prospective overview of GIS and Society research that provides an expansive and critical assessment of work in that field. Emphasizing the theoretical, methodological and substantive diversity within GIS and Society research, the book highlights the distinctiveness and intellectual coherence of the subject as a field of study, while also examining its resonances with and between key themes, and among disciplines ranging from geography and computer science to sociology, anthropology, and the health and environmental sciences. Comprising 27 chapters, often with an international focus, the book is organized into six sections: Foundations of Geographic Information and Society Geographical Information and Modern Life Alternative Representations of Geographic Information and Society Organizations and Institutions Participation and Community Issues Value, Fairness, and Privacy

Aimed at academics, researchers, postgraduates, and GIS practitioners, this Handbook will be the basic reference for any inquiry applying GIS to societal issues.

The SAGE Handbook of Environmental Change is an extensive survey of the interdisciplinary science of environmental change, including recent debates on climate change and the full range of other natural and anthropogenic changes affecting the Earth-ocean-atmosphere system in the past, present and future. It examines the historic importance, present status and future prospects of the field over two volumes. With more than 40 chapters, the books situate the defining

characteristics and key paradigms within a state-of-the-art review of the field, including its changing nature and diversity of approaches, evidence base, key theoretical arguments, resonances with other disciplines and relationships between theory, research and practice. Opening with a detailed, contextualizing essay by the editors, the work is arranged into six parts: Part One: Approaches to Understanding Environmental Change Part Two: Evidence of Environmental Change and the Geo-ecological Response Part Three: Causes, Mechanisms and Dynamics of Environmental Change Part Four: Key Issues of Human-induced Environmental Changes and Their Impacts Part Five: Patterns, Processes and Impacts of Environmental Change at the Regional Scale Part Six: Responses of People to Environmental Change and Implications for Society Global in its coverage, scientific and theoretical in its approach, the books bring together an international set of respected editors and contributors to provide an exciting, timely addition to the literature on climate change. With the subjects' interdisciplinary framework, this book will appeal to academics, researchers, postgraduates and practitioners in a variety of disciplines including, geography, geology, ecology, environmental science, archaeology, anthropology, politics and sociology.

This handbook presents and critiques predominant and emergent traditions of Educational Action Research internationally. Now a prominent methodology, Educational Action Research is well suited to exploring, developing and sustaining change processes both in classrooms and whole organisations such as schools, Departments of Education, and many segments of universities. The handbook contains theoretical and practical based chapters by highly respected scholars whose work has been seminal in building knowledge and expertise in the field. It also contains chapters exemplifying the work of prominent practitioner and community groups working outside universities. The Editors provide an introduction and conclusion, as well as an opening chapter which charts the historical development of action research and provides an analysis of its underlying theories. The handbook is organized into four sections, each beginning with a short introduction: - Action research methodology: diversity of rationales and practices - Professional: Knowledge production, staff development, and the status of educators - Personal: Self-awareness, development and identity - Political: Popular knowledge, difference, and frameworks for change This is a key resource for scholars and graduate students at doctors and masters levels, as well as school leaders and administrators. Susan Noffke is Associate Professor of Curriculum & Instruction at the University of Illinois - Urbana/Champaign and co-editor with R.B. Stevenson of Educational Action Research (Teachers College Press, 1995). She taught at the primary school level for a decade, and has led masters and doctoral level courses in action research for the past 20 years. She continues to work with many collaborative projects with schools and school districts. Bridget Somekh is Professor of Educational Research at Manchester Metropolitan University, UK.

She is a founder editor of the Educational Action Research journal and has been a co-ordinator of the Collaborative Action Research Network (CARN) for many years. She is co-editor of Research Methods in the Social Sciences (SAGE: 2005) and author of Action Research: a Methodology for Change and Development (Open University Press: 2006).

Exploring the dynamic growth, change, and complexity of qualitative research in human geography, The SAGE Handbook of Qualitative Geography brings together leading scholars in the field to examine its history, assess the current state of the art, and project future directions. "In its comprehensive coverage, accessible text, and range of illustrative studies, past and present, the Handbook has established an impressive new standard in presenting qualitative methods to geographers." - David Ley, University of British Columbia Moving beyond textbook rehearsals of standard issues, the Handbook shows how empirical details of qualitative research can be linked to the broader social, theoretical, political, and policy concerns of qualitative geographers and the communities within which they work. The book is organized into three sections: Part I: Openings engages the history of qualitative geography, and details the ways that research, and the researcher's place within it, are conceptualized within broader academic, political, and social currents. Part II: Encounters and Collaborations describes the different strategies of inquiry that qualitative geographers use, and the tools and techniques that address the challenges that arise in the research process. Part III: Making Sense explores the issues and processes of interpretation, and the ways researchers communicate their results.

Retrospective as well as prospective in its approach, this is geography's first peer-to-peer engagement with qualitative research detailing how to conceive, carry out and communicate qualitative research in the twenty-first century. Suitable for postgraduate students, academics, and practitioners alike, this is the methods resource for researchers in human geography.

This book discusses in detail molecular, mycobiont culture, biomonitoring and bioprospection of lichens, providing insights into advances in different fields of lichenology by applying modern techniques and approaches and examining how their application has enhanced or changed classical approaches. It offers a valuable resource, especially for beginners, students and researchers from different academic backgrounds interested in the study of lichens. In recent years, the introduction of modern analytical techniques and approaches has significantly improved our understanding of the environment, including lichens. Lichens are unique organisms which possess untapped potential as effective and reliable bioindicators, sources of therapeutic phytochemicals, and as excellent extremophiles. The unique and peculiar characteristics of lichens underline the need for a multidimensional approach to explore their potential in various fields of environment science, botany and chemistry. Modern techniques, especially molecular techniques, have greatly enriched the field of lichen taxonomy and its position in the plant kingdom, revealing little-known species and exploring their

evolutionary history, while multivariate analysis and GIS approaches have established lichens as an ideal and reliable tool for monitoring air pollution. Advanced culture techniques have expanded the pharmacological applications of lichens, which was formerly restricted due to their small biomass. The advent of sophisticated analytical instrumentation has now facilitated the isolation and characterization of lichens' bioactive constituents, even in lower concentrations, as well as the estimation of their stress responses at different levels of pollution. As lichen diversity is adversely affected by increasing air pollution, there is a pressing need to develop effective management practices to conserve, restore and document lichen diversity.

There has been a huge growth of interest in action research in educational settings over the past 20 years across the Americas, Europe, Australia and Africa - this Handbook provides a scholarly reference text that will inform the development of the field.

The SAGE Handbook of Tourism Management is a critical, state-of-the-art and authoritative review of tourism management, written by leading international thinkers and academics in the field. With a strong focus on applications of theories and concepts to tourism, the chapters in this volume are framed as critical synoptic pieces covering key developments, current issues and debates, and emerging trends and future considerations for the field. Part One: Approaching Tourism Part Two: Destination Applications Part Three: Marketing Applications Part Four: Tourism Product Markets Part Five: Technological Applications Part Six: Environmental Applications This handbook offers a fresh, contemporary and definitive look at tourism management, making it an essential resource for academics, researchers and students.

A volume in the three-volume Remote Sensing Handbook series, Remote Sensing of Water Resources, Disasters, and Urban Studies documents the scientific and methodological advances that have taken place during the last 50 years. The other two volumes in the series are Remotely Sensed Data Characterization, Classification, and Accuracies, and Land Reso

Education has continued to grow in stature and significance as an academic discipline. In addition to world renowned research studies the growth of education has been seen in the methodology and methods underpinning its research. The BERA/SAGE Handbook of Educational Research provides a cutting edge account of the research and methodology that is creating new understandings for education research, policy and practice. Over two volumes, the handbook addresses educational research in six essential components: Section 1: Understanding Research Section 2: Planning Research Section 3: Approaches to Research Section 4: Acquiring Data Section 5: Analysing Data Section 6: Reporting, Disseminating and Evaluating Research Featuring contributions from more than 50 of the biggest names in the international field, The BERA/SAGE Handbook of Educational Research represents a very significant contribution to the development of education.

"The strongest overview I have encountered of the scope and the current state of research across all the fields involved in advancing our understanding of tourism. For its range of topics, depth of analyses, and distinction of its contributors, nothing is comparable." - Professor Dean MacCannell, University of California, Davis "The breadth of vision and sweep of accounts is remarkable, and range of topics laudable... a rare combination of the authoritative, the challenging and stimulating." - Professor Mike Crang, Durham University

Tourism studies developed as a sub-branch of older disciplines in the social sciences, such as anthropology, sociology and economics, and newer applied fields of study in hospitality management, civil rights and transport studies. This Handbook is a sign of the maturity of the field. It provides an essential resource for teachers and students to determine the roots, key issues and agenda of tourism studies, exploring:

- The evolution and position of tourism studies
- The relationship of tourism to culture
- The ecology and economics of tourism
- Special events and destination management
- Methodologies of study
- Tourism and transport
- Tourism and heritage
- Tourism and postcolonialism
- Global tourist business operations

Ranging from local to global issues, and from questions of management to the ethical dilemmas of tourism, this is a comprehensive, critically informed, constructively organized overview of the field. It draws together an interdisciplinary group of contributors who are among the most celebrated names in the field and will be quickly recognized as a landmark in the new and expanding field of tourism studies.

This book contains seven parts. The first part deals with some aspects of rainfall analysis, including rainfall probability distribution, local rainfall interception, and analysis for reservoir release. Part 2 is on evapotranspiration and discusses development of neural network models, errors, and sensitivity. Part 3 focuses on various aspects of urban runoff, including hydrologic impacts, storm water management, and drainage systems. Part 4 deals with soil erosion and sediment, covering mineralogical composition, geostatistical analysis, land use impacts, and land use mapping. Part 5 treats remote sensing and geographic information system (GIS) applications to different hydrologic problems. Watershed runoff and floods are discussed in Part 6, encompassing hydraulic, experimental, and theoretical aspects. Water modeling constitutes the concluding Part 7. Soil and Water Assessment Tool (SWAT), Xinanjiang, and Soil Conservation Service-Curve Number (SCS-CN) models are discussed. The book is of interest to researchers and practitioners in the field of water resources, hydrology, environmental resources, agricultural engineering, watershed management, earth sciences, as well as those engaged in natural resources planning and management. Graduate students and those wishing to conduct further research in water and environment and their development and management find the book to be of value.

Comprehensive Remote Sensing covers all aspects of the topic, with each volume edited by well-known scientists and contributed to by frontier researchers. It is a

comprehensive resource that will benefit both students and researchers who want to further their understanding in this discipline. The field of remote sensing has quadrupled in size in the past two decades, and increasingly draws in individuals working in a diverse set of disciplines ranging from geographers, oceanographers, and meteorologists, to physicists and computer scientists. Researchers from a variety of backgrounds are now accessing remote sensing data, creating an urgent need for a one-stop reference work that can comprehensively document the development of remote sensing, from the basic principles, modeling and practical algorithms, to various applications. Fully comprehensive coverage of this rapidly growing discipline, giving readers a detailed overview of all aspects of Remote Sensing principles and applications Contains 'Layered content', with each article beginning with the basics and then moving on to more complex concepts Ideal for advanced undergraduates and academic researchers Includes case studies that illustrate the practical application of remote sensing principles, further enhancing understanding

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.

A Beginner's Guide to the World of Satellite Data Over a thousand active satellites are in orbit around the Earth with applications including navigation, the transmission of data and satellite remote sensing; a space-based technology providing data accessible to everyone. The Practical Handbook of Remote Sensing offers a complete understanding of th

A volume in the Remote Sensing Handbook series, Remotely Sensed Data Characterization, Classification, and Accuracies documents the scientific and methodological advances that have taken place during the last 50 years. The other two volumes in the series are Land Resources Monitoring, Modeling, and Mapping with Remote Sensing, and Remote Sensing of

The widespread use of Geographical Information Systems (GIS) has significantly increased the demand for knowledge about spatial analytical techniques across a range of disciplines. As growing numbers of researchers realise they are dealing with spatial data, the demand for specialised statistical and mathematical methods designed to deal with spatial data is undergoing a rapid increase. Responding to this demand, The Handbook of Spatial Analysis is a comprehensive and authoritative discussion of issues and techniques in the field of Spatial Data Analysis. Its principal focus is on: • why the analysis of spatial data needs separate treatment • the main areas of spatial analysis • the key debates within spatial analysis • examples of the application of various spatial

analytical techniques • problems in spatial analysis • areas for future research Aimed at an international audience of academics, The Handbook of Spatial Analysis will also prove essential to graduate level students and researchers in government agencies and the private sector.

The Encyclopedia of Geographic Information Science covers the essence of this exciting, new, and expanding field in an easily understood but richly detailed style. In addition to contributions from some of the best recognized scholars in GIScience, this volume contains contributions from experts in GIS' supporting disciplines who explore how their disciplinary perspectives are expanded within the context of GIScience—what changes when consideration of location is added, what complexities in analytical procedures are added when we consider objects in 2, 3 or even 4 dimensions, what can we gain by visualizing our analytical results on a map or 3D display?

The SAGE Handbook of Remote Sensing SAGE

"A superb resource for understanding the diversity of the modern discipline of biogeography, and its history and future, especially within geography departments. I expect to refer to it often." - Professor Sally Horn, University of Tennessee "As you browse through this fine book you will be struck by the diverse topics that biogeographers investigate and the many research methods they use.... Biogeography is interdisciplinary, and a commonly-voiced concern is that one biogeographer may not readily understand another's research findings. A handbook like this is important for synthesising, situating, explaining and evaluating a large literature, and pointing the reader to informative publications." - Geographical Research "A valuable contribution in both a research and teaching context. If you are biologically trained, it provides an extensive look into the geographical tradition of biogeography, covering some topics that may be less familiar to those with an evolution/ecology background. Alternatively, if you are a geography student, researcher, or lecturer, it will provide a useful reference and will be invaluable to the non-biogeographer who suddenly has the teaching of an introductory biogeography course thrust upon them." - Adam C. Algar, Frontiers of Biogeography The SAGE Handbook of Biogeography is a manual for scoping the past, present and future of biogeography that enable readers to consider, where relevant, how similar biogeographical issues are tackled by researchers in different 'schools'. In line with the concept of all SAGE Handbooks, this is a retrospective and prospective overview of biogeography that will: Consider the main areas of biogeography researched by geographers Detail a global perspective by incorporating the work of different schools of biogeographers Explore the divergent evolution of biogeography as a discipline and consider how this diversity can be harnessed Examine the interdisciplinary debates that biogeographers are contributing to within geography and the biological sciences. Aimed at an international audience of research students, academics, researchers and practitioners in biogeography, the text will attract interest from environmental scientists, ecologists, biologists and geographers alike. Broad in scope and edited by two massive names in geography, this is a critical exploration of how the field has emerged and fared over the course of its modern institutionalization.

"Superb! How refreshing to see a Handbook that eschews convention and explores the richness and diversity of the geographical imagination in such stimulating and challenging ways." - Peter Dicken, University of Manchester "Stands out as an

innovative and exciting contribution that exceeds the genre." - Sallie A. Marston, University of Arizona "Captures wonderfully the richness and complexity of the worlds that human beings inhabit... This is a stand-out among handbooks!" - Lily Kong, National University of Singapore "This wonderfully unconventional book demonstrates human geography's character and significance not by marching through traditional themes, but by presenting a set of geographical essays on basic ideas, practices, and concerns." - Alexander B. Murphy, University of Oregon "This SAGE Handbook stands out for its capacity to provoke the reader to think anew about human geography ... essays that offer some profoundly original insights into what it means to engage geographically with the world." - Eric Sheppard, UCLA Published in association with the journal *Progress in Human Geography*, edited and written by the principal scholars in the discipline, this Handbook demonstrates the difference that thinking about the world geographically makes. Each section considers how human geography shapes the world, interrogates it, and intervenes in it. It includes a major retrospective and prospective introductory essay, with three substantive sections on: Imagining Human Geographies Practising Human Geographies Living Human Geographies The Handbook also has an innovative multimedia component of conversations about key issues in human geography – as well as an overview of human geography from the Editors. A key reference for any scholar interested in questions about what difference it makes to think spatially or geographically about the world, this Handbook is a rich and textured statement about the geographical imagination.

"It is refreshing to see a book such as this which is both broad in its conceptualization of the field of child research and deep in its focus. The volume's editors are paragons of awareness when it comes to the need for interdisciplinary research and theory to illuminate the lives and experience of children." - James Garbarino, Loyola University Chicago "Covers a satisfying and unprecedentedly wide range of research relating to childhood. The contributors include many eminent international scholars of childhood, making the book a valuable resource for child researchers. Child advocates will also find the book to be invaluable in their efforts to improve children's well-being, and to change policies and practices for the better." - Anne Smith, University of Otago "A really scintillating collection that will provide a lasting perspective on child studies - stimulating and comprehensive!" - Jonathan Bradshaw, University of York In keeping with global changes in children's social and legal status, this Handbook includes examination of children as family members, friends, learners, consumers, people of faith, and participants in law and politics. The contributors also discuss the methodological and ethical requirements for research that occurs in natural settings and that enables children themselves to describe their perspective. The book is divided into three parts: Part I: Setting-Specific Issues in Child Research Part II: Population-Specific Issues in Child Research Part III: Methods in Research on Children and Childhood

Survey Methodology is becoming a more structured field of research, deserving of more and more academic attention. The SAGE Handbook of Survey Methodology explores both the increasingly scientific endeavour of surveys and their growing complexity, as different data collection modes and information sources are combined. The handbook takes a global approach, with a team of international experts looking at local and national specificities, as well as problems of cross-national, comparative survey research. The chapters are organized into seven major sections, each of which

represents a stage in the survey life-cycle: Surveys and Societies Planning a Survey Measurement Sampling Data Collection Preparing Data for Use Assessing and Improving Data Quality The SAGE Handbook of Survey Methodology is a landmark and essential tool for any scholar within the social sciences.

Geomorphology is the study of the Earth's diverse physical land-surface features and the dynamic processes that shape these features. Examining natural and anthropogenic processes, The SAGE Handbook of Geomorphology is a comprehensive exposition of the fundamentals of geomorphology that examines form, process, and applications of the discipline. Organized into five substantive sections, the Handbook is an overview of:

- Foundations and Relevance: including the nature and scope of geomorphology; the origins and development of geomorphology; the role and character of theory in geomorphology; geomorphology and environmental management; and geomorphology and society
- Techniques and Approaches: including observations and experiments; geomorphological mapping; the significance of models; process and form; dating surfaces and sediment; remote sensing in geomorphology; GIS in geomorphology; biogeomorphology; human activity
- Process and Environment: including the evolution of regolith; weathering; fluids, flows and fluxes; sediment transport and deposition; hill slopes; riverine environments; glacial geomorphology; periglacial environments; coastal environments; aeolian environments; tropical environments; karst and karst processes
- Environmental Change: including landscape evolution and tectonics; interpreting quaternary environments; environmental change; disturbance and responses to geomorphic systems
- Conclusion: including challenges and perspectives; and a concluding review

The Handbook has contributions from 48 international authors and was initially organized by the International Association of Geomorphologists. This will be a much-used and much-cited reference for researchers in Geomorphology, Physical Geography and the Environmental Sciences.

Tackling the questions raised by twenty-first century urbanization, this handbook engages with contemporary debates and contributions to policy as well as looking at recent empirical and methodological shifts in the area

'A magnificent achievement. A who's who of contemporary remote sensing have produced an engaging, wide-ranging and scholarly review of the field in just one volume' - Professor Paul Curran, Vice-Chancellor, Bournemouth University

Remote Sensing acquires and interprets small or large-scale data about the Earth from a distance. Using a wide range of spatial, spectral, temporal, and radiometric scales Remote Sensing is a large and diverse field for which this Handbook will be the key research reference. Organized in four key sections:

- Interactions of Electromagnetic Radiation with the Terrestrial Environment: chapters on Visible, Near-IR and Shortwave IR; Middle IR (3-5 micrometers); Thermal IR ; Microwave
- Digital sensors and Image Characteristics: chapters on Sensor Technology; Coarse Spatial Resolution Optical Sensors ; Medium Spatial Resolution Optical Sensors; Fine Spatial Resolution Optical Sensors; Video Imaging and Multispectral Digital Photography; Hyperspectral Sensors; Radar and Passive Microwave Sensors; Lidar
- Remote Sensing Analysis - Design and Implementation: chapters on Image Pre-Processing; Ground Data Collection; Integration with GIS; Quantitative Models in Remote Sensing; Validation and accuracy assessment;
- Remote Sensing Analysis - Applications: LITHOSPHERIC SCIENCES: chapters on Topography; Geology; Soils; PLANT SCIENCES: Vegetation; Agriculture;

HYDROSPHERIC and CRYOSPHERIC SCIENCES: Hydrosphere: Fresh and Ocean Water; Cryosphere; GLOBAL CHANGE AND HUMAN ENVIRONMENTS: Earth Systems; Human Environments & Links to the Social Sciences; Real Time Monitoring Systems and Disaster Management; Land Cover Change Illustrated throughout, an essential resource for the analysis of remotely sensed data, the SAGE Handbook of Remote Sensing provides researchers with a definitive statement of the core concepts and methodologies in the discipline.

"A refreshingly innovative approach to charting geographical knowledge. A wide range of authors trace the social construction and contestation of geographical ideas through the sites of their production and their relational geographies of engagement. This creative and comprehensive book offers an extremely valuable tool to professionals and students alike." - Victoria Lawson, University of Washington "A Handbook that recasts geograph's history in original, thought-provoking ways. Eschewing the usual chronological march through leading figures and big ideas, it looks at geography against the backdrop of the places and institutional contexts where it has been produced, and the social-cum-intellectual currents underlying some of its most important concepts." - Alexander B. Murphy, University of Oregon The SAGE Handbook of Geographical Knowledge is a critical inquiry into how geography as a field of knowledge has been produced, re-produced, and re-imagined. It comprises three sections on geographical orientations, geography's venues, and critical geographical concepts and controversies. The first provides an overview of the genealogy of "geography". The second highlights the types of spatial settings and locations in which geographical knowledge has been produced. The third focuses on venues of primary importance in the historical geography of geographical thought. Orientations includes chapters on: Geography - the Genealogy of a Term; Geography's Narratives and Intellectual History Geography's Venues includes chapters on: Field; Laboratory; Observatory; Archive; Centre of Calculation; Mission Station; Battlefield; Museum; Public Sphere; Subaltern Space; Financial Space; Art Studio; Botanical/Zoological Gardens; Learned Societies Critical concepts and controversies - includes chapters on: Environmental Determinism; Region; Place; Nature and Culture; Development; Conservation; Geopolitics; Landscape; Time; Cycle of Erosion; Time; Gender; Race/Ethnicity; Social Class; Spatial Analysis; Glaciation; Ice Ages; Map; Climate Change; Urban/Rural. Comprehensive without claiming to be encyclopedic, textured and nuanced, this Handbook will be a key resource for all researchers with an interest in the pasts, presents and futures of geography.

Tropical dry forests are the most exploited and endangered ecosystems in the world. A combination of climatic and human factors often reduce these forests to patches of dry scrubs or savannas. Because these ecosystems experience a more arduous and less anticipated environment, they are more prone to environmental stress as plant communities are developed. Therefore, urgent research is necessary to understand both the detrimental issues and problem-solving approaches to conserving these important forests. The Handbook of Research on the Conservation and Restoration of Tropical Dry Forests is a pivotal reference source that combines theory and practice on the current trends and issues in this important ecological subject and discusses future challenges towards conservation strategies of these tropical dry forests. While highlighting topics such as forest management, natural regeneration, and silviculture,

this publication examines the anthropogenic impacts on tropical dry forests and the necessity to rebuild their ecosystems. This book is ideally designed for state forest agency professionals, resource managers, non-governmental organization agents, ecologists, botanists, environmentalists, students, and researchers seeking current research on the threats to these forests.

"This volume brings together some of the biggest names in European Studies to analyse the most important trajectories of Europe's development and the challenges faced by the continent today. No one interested in Europe will be able to ignore this extraordinary collection of scholarship." - Professor Thomas Diez, University of Birmingham "In its range and comprehensiveness it will be hard to beat; and it will certainly become an invaluable resource for sociologists, political scientists, historians and all others seeking the best information and most up-to-the-date approaches to the study of Europe today." - Professor Krishan Kumar, University of Virginia "An impressive account of the state of the art of the study of contemporary Europe... This is an outstanding work and a definite companion to all those interested in contemporary Europe." - Journal of Contemporary European Studies Europe is one of the world's oldest civilizations. But what does it mean to be European today? What place does Europe have in global affairs? How should we analyze its key institutions, system of governance and broader cultural, social and political dynamics? This exhaustive and timely handbook: Explores the transformations that characterize contemporary Europe Investigates how we can best study Europe Consolidates European studies and provides a platform for future study Increases the profile of European studies. The Handbook promotes the increasing diversity of perspectives employed in the study of contemporary Europe and EU integration and is situated within the context of Europe's transformations. It offers balanced coverage of political, social, economic, cultural and institutional dimensions of Europe, and includes chapters by leading authorities including Ulrich Beck, Craigh Calhoun, Donatella della Porta, Claus Offe, Anssi Paasi, Ben Rosamond, Gurminder Bhambra and Charles Tilly. Multidisciplinary in organization, inclusive in coverage and cutting-edge in scope, The SAGE Handbook of European Studies is a landmark resource for anyone interested in Europe.

"A fabulous collection of essays on memory in the real world. The leading scholars have been assembled to produce a volume that is intellectually rich, up-to-date, and truly important." - Elizabeth F. Loftus, Distinguished Professor, University of California, Irvine "An invaluable resource for anyone wishing to access the current state of knowledge of, or contemplating research into, the growing area of applied memory research." - Graham Davies, Editor, Applied Cognitive Psychology The SAGE Handbook of Applied Memory is the first of its kind to focus specifically on this vibrant and progressive field. It offers a broad and comprehensive coverage of recent theoretical and empirical research advances in the psychology of memory as they apply to a range of applied issues, and offers advanced students and researchers the opportunity to survey the literature in the psychology of memory across a range of applied domains. Arranged into four sections: Everyday Memory; Social and Individual Differences in Memory; Subjective Experience of Memory; and Eyewitness Memory, this handbook provides a comprehensive summary and evaluation of scientific memory research as well as theory in a broad range of applied topics including those in cognitive, forensic and experimental psychology. Brought together by world-leading

scholars from across the globe, The SAGE Handbook of Applied Memory will be of great interest to all advanced students and academics with an interest in all aspects of applied memory.

Organizational communication as a field of study has grown tremendously over the past thirty years. This growth is characterized by the development and application of communication perspectives to research on complex organizations in rapidly changing environments. Completely re-conceptualized, The SAGE Handbook of Organizational Communication, Third Edition, is a landmark volume that weaves together the various threads of this interdisciplinary area of scholarship. This edition captures both the changing nature of the field, with its explosion of theoretical perspectives and research agendas, and the transformations that have occurred in organizational life with the emergence of new forms of work, globalization processes, and changing organizational forms. Exploring organizations as complex and dynamic, the Handbook brings a communication lens to bear on multiple organizing processes.

This handbook is a reference work providing a comprehensive, objective and comparative overview of Space Law. The global space economy reached \$330 billion in 2015, with a growth rate of 9 per cent vis-à-vis the previous year. Consequently, Space Law is changing and expanding expeditiously, especially at the national level. More laws and regulations are being adopted by space-faring nations, while more countries are adapting their Space Laws and regulations related to activities in outer space. More regulatory bodies are being created, while more regulatory diversity (from public law to private law) is being instituted as increasing and innovative activities are undertaken by private entities which employ new technologies and business initiatives. At the international level, Space Law (both hard law and soft law) is expanding in certain areas, especially in satellite broadcasting and telecommunications. The Routledge Handbook of Space Law summarises the existing state of knowledge on a comprehensive range of topics and aspires to set the future international research agenda by indicating gaps and inconsistencies in the existing law and highlighting emerging legal issues. Unlike other books on the subject, it addresses major international and national legal aspects of particular space activities and issues, rather than providing commentary on or explanations about a particular Space Law treaty or national regulation. Drawing together contributions from leading academic scholars and practicing lawyers from around the world, the volume is divided into five key parts: • Part I: General Principles of International Space Law • Part II: International Law of Space Applications • Part III: National Regulation of Space Activities • Part IV: National Regulation of Navigational Satellite Systems • Part V: Commercial Aspects of Space Law This handbook is both practical and theoretical in scope, and may serve as a reference tool to academics, professionals and policy-makers with an interest in Space Law.

This Open Access volume aims to methodologically improve our understanding of biodiversity by linking disciplines that incorporate remote sensing, and uniting data and perspectives in the fields of biology, landscape ecology, and geography. The book provides a framework for how biodiversity can be detected and evaluated--focusing particularly on plants--using proximal and remotely sensed hyperspectral data and other tools such as LiDAR. The volume, whose chapters bring together a large cross-section of the biodiversity community engaged in these methods, attempts to establish

a common language across disciplines for understanding and implementing remote sensing of biodiversity across scales. The first part of the book offers a potential basis for remote detection of biodiversity. An overview of the nature of biodiversity is described, along with ways for determining traits of plant biodiversity through spectral analyses across spatial scales and linking spectral data to the tree of life. The second part details what can be detected spectrally and remotely. Specific instrumentation and technologies are described, as well as the technical challenges of detection and data synthesis, collection and processing. The third part discusses spatial resolution and integration across scales and ends with a vision for developing a global biodiversity monitoring system. Topics include spectral and functional variation across habitats and biomes, biodiversity variables for global scale assessment, and the prospects and pitfalls in remote sensing of biodiversity at the global scale.

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