Preface

The constantly changing landscape of Natural Resources Management makes it challenging for experts and practitioners to stay informed of the field’s most up-to-date research. That is why Information Science Reference is pleased to offer this three-volume reference collection that will empower students, researchers, and academicians with a strong understanding of critical issues within Natural Resources Management by providing both broad and detailed perspectives on cutting-edge theories and developments. This reference is designed to act as a single reference source on conceptual, methodological, technical, and managerial issues, as well as provide insight into emerging trends and future opportunities within the discipline.

Natural Resources Management: Concepts, Methodologies, Tools and Applications is organized into six distinct sections that provide comprehensive coverage of important topics. The sections are:

1. Fundamental Concepts and Theories;
2. Development and Design Methodologies;
3. Utilization and Applications;
4. Organizational and Social Implications;
5. Critical Issues and Challenges;

The following paragraphs provide a summary of what to expect from this invaluable reference tool.

Section 1, “Fundamental Concepts and Theories,” serves as a foundation for this extensive reference tool by addressing crucial theories essential to the understanding of Natural Resources Management. Introducing the book is Global Warming, Climate Policy, and the Green Paradox by Gheorghe H. Popescu and Elvira Nica; a great foundation laying the groundwork for the basic concepts and theories that will be discussed throughout the rest of the book. Section 1 concludes, and leads into the following portion of the book with a nice segue chapter, Education, Extension, and Training for Climate Change by Isaac Bekele and Wayne Ganpat.

Section 2, “Development and Design Methodologies,” presents in-depth coverage of the conceptual design and architecture of Natural Resources Management. Opening the section is A Framework for Understanding Adaptation by Manufacturing Industries by Saon Ray. Through case studies, this section lays excellent groundwork for later sections that will get into present and future applications for Natural
Preface


Section 3, “Utilization and Applications,” describes how the broad range of Natural Resources Management efforts have been utilized and offers insight on and important lessons for their applications and impact. The first chapter in the section is titled *Adaptations to Climate Change and Climate Variability in the Agriculture Sector in Mauritius: Lessons from a Technical Needs Assessment* written by Prakash N. K. Deenapanray and Indoomatee Ramma. This section includes the widest range of topics because it describes case studies, research, methodologies, frameworks, architectures, theory, analysis, and guides for implementation. The breadth of topics covered in the chapter is also reflected in the diversity of its authors, from countries all over the globe. The section concludes with *Adaptation to Impacts of Climate Change on the Food and Nutrition Security Status of a Small Island Developing State: The Case of the Republic of Seychelles* by Antoine Marie Moustache, a great transition chapter into the next section.

Section 4, “Organizational and Social Implications,” includes chapters discussing the organizational and social impact of Natural Resources Management. The section opens with *Assessing Urban Residents’ Willingness to Pay for Preserving the Biodiversity of Swamp Forest* by Huynh Viet Khai. Where the previous section focused on the broad, many applications of Natural Resources Management technology, this section focuses exclusively on how these technologies affect human lives, either through the way they interact with each other, or through how they affect behavioral/workplace situations. The section concludes with *Impacts of Climate Change on Fish Productivity: A Quantitative Measurement* by Sibananda Senapati and Vijaya Gupta.

Section 5, “Critical Issues and Challenges,” presents coverage of academic and research perspectives on Natural Resources Management tools and applications. The section begins with *The Dynamics of Food Insecurity in Ethiopia* by Melak Mesfin Ayenew. Chapters in this section will look into theoretical approaches and offer alternatives to crucial questions on the subject of Natural Resources Management. The section concludes with *Incremental Learning and Gradual Changes: “Science Field Shops” as an Educational Approach to Coping Better with Climate Change in Agriculture* by Yunita Triwardani Winarto and Kees/Cornelis Johan Stigter.

Section 6, “Emerging Trends,” highlights areas for future research within the field of Natural Resources Management, opening with *How Does Public Attention Influence Natural Gas Price? New Evidence with Google Search Data* by Xin Li, Jian Ma, Wei Shang, Shouyang Wang, and Xun Zhang. This section contains chapters that look at what might happen in the coming years that can extend the already staggering amount of applications for Natural Resources Management. The final chapter of the book looks at an emerging field within Natural Resources Management, in the excellent contribution, *Beyond Environment, Economy, and Equity: Implementing Power Balancing and Inclusive Process for Integrating our Agreed Framework of Sustainability* by Jill Sourial.

Although the primary organization of the contents in this multi-volume work is based on its six sections, offering a progression of coverage of the important concepts, methodologies, technologies, applications, social issues, and emerging trends, the reader can also identify specific contents by utilizing the extensive indexing system listed at the end of each volume. As a comprehensive collection of research on the latest findings related to using technology to providing various services, *Natural Resources Management:*
Preface

*Concepts, Methodologies, Tools and Applications,* provides researchers, administrators and all audiences with a complete understanding of the development of applications and concepts in Natural Resources Management. Given the vast number of issues concerning usage, failure, success, policies, strategies, and applications of Natural Resources Management in countries around the world, *Natural Resources Management: Concepts, Methodologies, Tools and Applications* addresses the demand for a resource that encompasses the most pertinent research in technologies being employed to globally bolster the knowledge and applications of Natural Resources Management.