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Nota di contenuto	Contents; Preface and Acknowledgments; Contributors; I Human-Environment Interactions; 1 Human-Environment Interactions in Forest Ecosystems: An Introduction; 2 Theories Underlying the Study of Human-Environment Interactions; II Conceptual Foundations of Human-Environment Analyses in Forest Ecosystems; 3 Linking Disciplines across Space and Time: Useful Concepts and Approaches for Land-Cover Change Studies; 4 Multidisciplinary Research Relating Institutions and Forest Transformations; 5 Forest Ecosystems and the Human Dimensions; III Methods 6 Retrieving Land-Cover Change Information from Landsat Satellite Images by Minimizing Other Sources of Reflectance Variability 7 Human-Environment Research, Spatially Explicit Data Analysis, and Geographic Information Systems; 8 Modeling Land-Use/Land-Cover Change: Exploring the Dynamics of Human-Environment Relationships; IV Comparison: Generalizing from Case Studies; 9 Intraregional Analysis of Land-Use Change in the Amazon; 10 Processes of Forest Change at the Local and Landscape Levels in Honduras and Guatemala; 11 Comparison of Above ground Biomass across Amazon Sites 12 Cross-Continental Comparisons: Africa and Asia 13 Meta-Analysis of Agricultural Change; V Epilogue; 14 New Directions in Human-Environment Interactions and Land-Use/Land-Cover Research; Glossary; References; Index

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patents and economics.

Sommario/riassunto

This handbook presents the state of the art of quantitative methods and models to understand and assess the science and technology system. Focusing on various aspects of the development and application of indicators derived from data on scholarly publications, patents and electronic communications, the individual chapters, written by leading experts, discuss theoretical and methodological issues, illustrate applications, highlight their policy context and relevance, and point to future research directions. A substantial portion of the book is dedicated to detailed descriptions and analyses of data sources, presenting both traditional and advanced approaches. It addresses the main bibliographic metrics and indexes, such as the journal impact factor and the h-index, as well as altmetric and webometric indicators and science mapping techniques on different levels of aggregation and in the context of their value for the assessment of research performance as well as their impact on research policy and society. It also presents and critically discusses various national research evaluation systems. Complementing the sections reflecting on the science system, the technology section includes multiple chapters that explain different aspects of patent statistics, patent classification and database search methods to retrieve patent-related information. In addition, it examines the relevance of trademarks and standards as additional technological indicators. The Springer Handbook of Science and Technology Indicators is an invaluable resource for practitioners, scientists and policy makers wanting a systematic and thorough analysis of the potential and limitations of the various approaches to assess research and research performance.