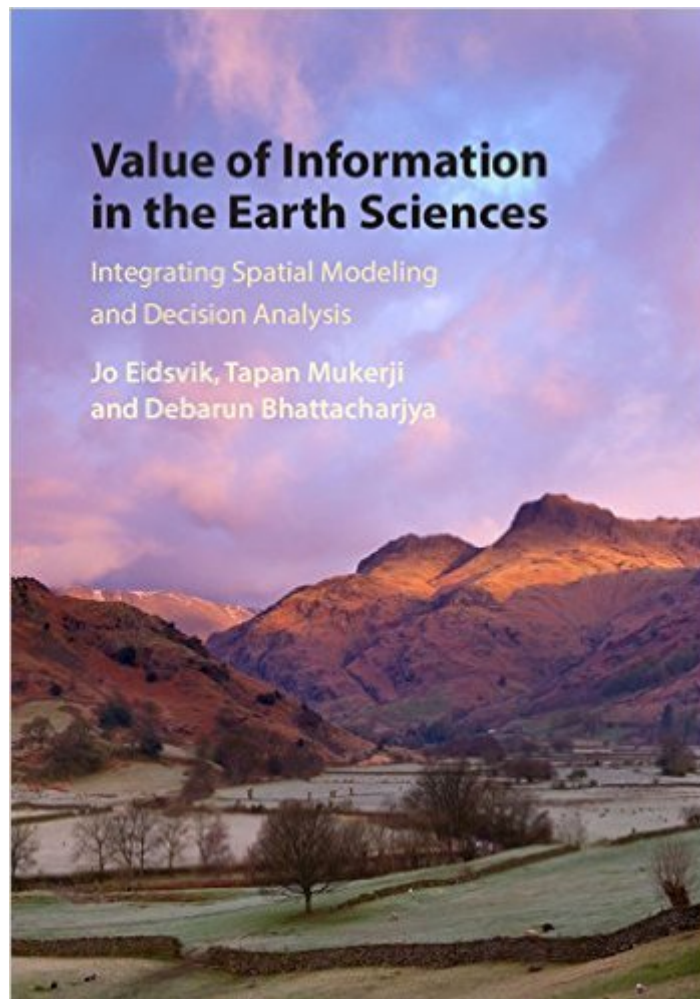


The book was found

# Value Of Information In The Earth Sciences: Integrating Spatial Modeling And Decision Analysis



## Synopsis

Gathering the right kind and the right amount of information is crucial for any decision-making process. This book presents a unified framework for assessing the value of potential data gathering schemes by integrating spatial modelling and decision analysis, with a focus on the Earth sciences. The authors discuss the value of imperfect versus perfect information, and the value of total versus partial information, where only subsets of the data are acquired. Concepts are illustrated using a suite of quantitative tools from decision analysis, such as decision trees and influence diagrams, as well as models for continuous and discrete dependent spatial variables, including Bayesian networks, Markov random fields, Gaussian processes, and multiple-point geostatistics. Unique in scope, this book is of interest to students, researchers and industry professionals in the Earth and environmental sciences, who use applied statistics and decision analysis techniques, and particularly to those working in petroleum, mining, and environmental geoscience.

## Book Information

Hardcover: 396 pages

Publisher: Cambridge University Press; 1 edition (January 13, 2016)

Language: English

ISBN-10: 1107040264

ISBN-13: 978-1107040267

Product Dimensions: 6.8 x 0.9 x 9.7 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,737,479 in Books (See Top 100 in Books) #469 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Mining #477 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Petroleum #2365 in Books > Textbooks > Science & Mathematics > Environmental Studies

[Download to continue reading...](#)

Value of Information in the Earth Sciences: Integrating Spatial Modeling and Decision Analysis  
Spatial Evolutionary Modeling (Spatial Information Systems) Location Theory and Decision  
Analysis: Analytics of Spatial Information Technology Ecocriticism and Geocriticism: Overlapping  
Territories in Environmental and Spatial Literary Studies (Geocriticism and Spatial Literary Studies)  
Spatial Reasoning Tests - The Ultimate Guide to Passing Spatial Reasoning Tests (Testing Series)  
Microsoft Excel 2013 Data Analysis and Business Modeling: Data Analysis and Business Modeling

(Introducing) Student Solutions Manual for Differential Equations: Computing and Modeling and  
Differential Equations and Boundary Value Problems: Computing and Modeling Mathematical  
Modeling of Collective Behavior in Socio-Economic and Life Sciences (Modeling and Simulation in  
Science, Engineering and Technology) Extended Warranties, Maintenance Service and Lease  
Contracts: Modeling and Analysis for Decision-Making (Springer Series in Reliability Engineering)  
Critical Thinking: Decision Making with Smarter Intuition and Logic! (Critical Thinking, Decision  
Making, Logic, Intuition) Building a Digital Analytics Organization: Create Value by Integrating  
Analytical Processes, Technology, and People into Business Operations (FT Press Analytics)  
Language Modeling for Information Retrieval (The Information Retrieval Series) Spatial Temporal  
Information Systems: An Ontological Approach using STK® Mother Earth's Beauty: Types of  
Landforms Around Us (For Early Learners): Nature Book for Kids (Children's Earth Sciences Books)  
Mother Earth's Beauty: Types of Air Around Us (For Early Learners): Nature Book for Kids - Earth  
Sciences (Children's Weather Books) Simulation, Second Edition: Programming Methods and  
Applications (Statistical Modeling and Decision Science) The Esri Guide to GIS Analysis, Volume 2:  
Spatial Measurements and Statistics Object-Based Image Analysis: Spatial Concepts for  
Knowledge-Driven Remote Sensing Applications (Lecture Notes in Geoinformation and  
Cartography) GIS and Spatial Analysis in Veterinary Science GIS Tutorial 2: Spatial Analysis  
Workbook

[Dmca](#)