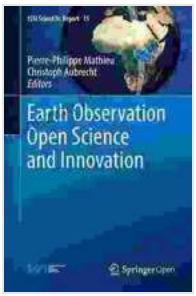
Earth Observation Open Science and Innovation: Unlocking the Potential of Satellite Data

Earth observation (EO) satellites collect vast amounts of data about our planet, providing valuable insights into a wide range of environmental and societal issues. However, the full potential of these data has yet to be realized, due to challenges in accessing, processing, and analyzing the data.



Earth Observation Open Science and Innovation (ISSI Scientific Report Series Book 15) by Norrinda Brown Hayat

4.6 out of 5

Language	: English
File size	: 71467 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 346 pages
Screen Reader	: Supported

Open science and innovation are key to unlocking the potential of EO data. Open science practices, such as data sharing and open access to publications, make it easier for researchers to access and use EO data. Innovation, in the form of new technologies and algorithms, can help us to process and analyze EO data more efficiently and effectively.

This book presents the latest research and developments in the field of EO open science and innovation, with a focus on the use of satellite data. The book is divided into three parts:

* Part 1: Open Science for Earth Observation * Part 2: Innovation in Earth Observation * Part 3: Applications of Earth Observation Open Science and Innovation

Part 1: Open Science for Earth Observation

The first part of the book provides an overview of the principles of open science and their application to EO data. Chapters in this part cover topics such as:

* The benefits of open science for EO * Best practices for data sharing and open access * Tools and resources for open science in EO * The role of citizen science in EO

Part 2: Innovation in Earth Observation

The second part of the book explores the latest innovations in EO data processing and analysis. Chapters in this part cover topics such as:

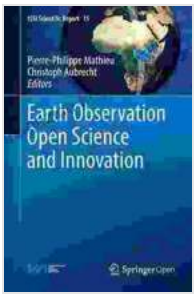
* Machine learning and artificial intelligence for EO * Big data analytics for EO * Cloud computing for EO * New sensors and platforms for EO

Part 3: Applications of Earth Observation Open Science and Innovation

The third part of the book presents a variety of applications of EO open science and innovation. Chapters in this part cover topics such as:

* Using EO data to monitor climate change * Using EO data to manage natural resources * Using EO data to improve disaster response * Using EO data to promote sustainable development

This book provides a comprehensive overview of the state-of-the-art in EO open science and innovation. The book is a valuable resource for researchers, practitioners, and policymakers who are interested in using EO data to address environmental and societal challenges.



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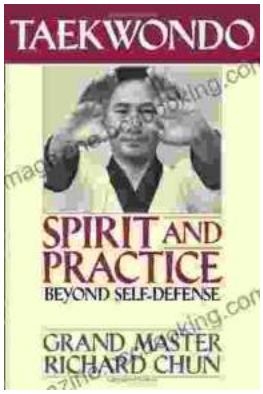

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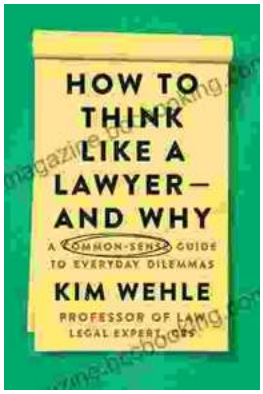

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