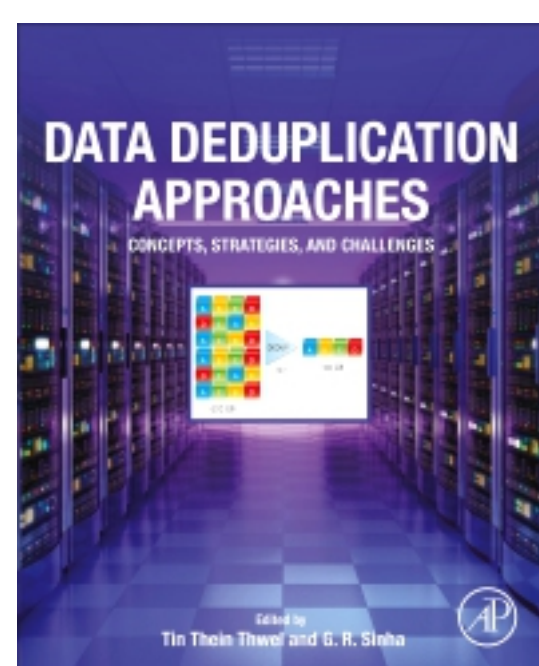




Book sale: Save up to 30% on print and eBooks. No promo code needed. [More details >](#)



Data Deduplication Approaches

Concepts, Strategies, and Challenges

1st Edition - November 25, 2020

☆☆☆☆☆ [Write a review](#)

Editors: Tin Thein Thwel, G. R. Sinha

Paperback ISBN: 9780128233955

eBook ISBN: 9780128236338



[View on ScienceDirect](#)

Description

In the age of data science, the rapidly increasing amount of data is a major concern in numerous applications of computing operations and data storage. Duplicated data or redundant data is a main challenge in the field of data science research. Data Deduplication Approaches: Concepts, Strategies, and Challenges shows readers the various methods that can be used to eliminate multiple copies of the same files as well as duplicated segments or chunks of data within the associated files. Due to ever-increasing data duplication, its deduplication has become an especially useful field of research for storage environments, in particular persistent data storage. Data Deduplication Approaches provides readers with an overview of the concepts and background of data deduplication approaches, then proceeds to demonstrate in technical detail the strategies and challenges of real-time implementations of handling big data, data science, data backup, and recovery. The book also includes future research directions, case studies, and real-world applications of data deduplication, focusing on reduced storage, backup, recovery, and reliability.

Key Features

Readership

Table of Contents

1. Introduction to data deduplication approaches
2. Data deduplication concepts
3. Concepts, strategies, and challenges of data deduplication
4. Existing mechanisms for data deduplication
5. Classification criteria for data deduplication methods
6. File chunking approaches
7. Study of data deduplication for file chunking approaches
8. Essentials of data deduplication using open-source toolkit
9. Efficient data deduplication scheme for scale-out distributed storage
10. Identification of duplicate bug reports in software bug repositories: a systematic review, challenges and future scope
11. A survey and critical analysis on energy generation from datacenter
12. Review of MODIS EVI and NDVI data for data mining applications
13. Performance modeling for secure migration processes of legacy systems to the cloud computing
14. **DedupCloud: an optimized efficient virtual machine deduplication algorithm in cloud computing environment**
15. Data deduplication for cloud storage
16. Data duplication using Amazon Web Services cloud storage
17. Game-theoretic analysis of encrypted cloud data deduplication
18. Data deduplication applications in cognitive science and computer vision research

Product details

About the Editors

Ratings and Reviews

Purchase options

Select country/region

India

Bundle (Paperback, eBook) ~~\$380.00~~
50% off \$190.00

Print - Paperback ~~\$190.00~~
30% off \$133.00

Available ⓘ

eBook ~~\$190.00~~
30% off \$133.00

DRM-free (PDF, Mobi, EPub) ⓘ

[eBook Format Help](#)

Add to cart

Sales tax will be calculated at check-out

Institutional Subscription

[Request a Sales Quote](#)

[Tax Exempt Orders](#)

[Support Center](#)

[Returns & Refunds](#)



Free Global Shipping

No minimum order

50% off Book Bundles

Immediately download your eBook while waiting for print delivery.

No promo code needed.

[More Details](#)

Solutions

- Scopus
- ScienceDirect
- Mendeley
- Evolve
- Knovel
- Reaxys
- ClinicalKey

Researchers

- Submit your paper
- Find books & journals
- Visit Author Hub
- Visit Editor Hub
- Visit Librarian Hub
- Visit Reviewer Hub

Subjects

- Health
- Life Sciences
- Physical sciences & engineering
- Social sciences & humanities

About Elsevier

- About
- Careers
- Newsroom
- Events
- Publisher relations
- Advertising, reprints and supplements

How can we help?

Support and Contact

Select location/language

Global - English

