1. Record Nr. UNINA9910814333603321

Autore	Ankam Venkat
Titolo	Big data analytics : a handy reference guide for data analysts and data scientists to help obtain value from big data analytics using Spark on Hadoop clusters / / Venkat Ankam
Pubbl/distr/stampa	Birmingham, England : , : Packt Publishing, , 2016 ©2016
Edizione	[1st edition]
Descrizione fisica	1 online resource (326 pages) : illustrations
Disciplina	005.8
Soggetti	Big data - Security measures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Sommario/riassunto	A handy reference guide for data analysts and data scientists to help to obtain value from big data analytics using Spark on Hadoop clusters About This Book This book is based on the latest 2.0 version of Apache Spark and 2.7 version of Hadoop integrated with most commonly used tools. Learn all Spark stack components including latest topics such as DataFrames, DataSets, GraphFrames, Structured Streaming, DataFrame based ML Pipelines and SparkR. Integrations with frameworks such as HDFS, YARN and tools such as Jupyter, Zeppelin, NiFi, Mahout, HBase Spark Connector, GraphFrames, H2O and Hivemall. Who This Book Is For Though this book is primarily aimed at data analysts and data scientists, it will also help architects, programmers, and practitioners. Knowledge of either Spark or Hadoop would be beneficial. It is assumed that you have basic programming background in Scala, Python, SQL, or R programming with basic Linux experience. Working experience within big data environments is not mandatory. What You Will Learn Find out and implement the tools and techniques of big data analytics using Spark on Hadoop clusters with wide variety of tools used with Spark and Hadoop Understand all the Hadoop and Spark ecosystem components Get to know all the Spark components: Spark Core, Spark SQL, DataFrames, DataSets, Conventional and Structured Streaming,

MLLib, ML Pipelines and Graphx See batch and real-time data analytics using Spark Core, Spark SQL, and Conventional and Structured Streaming Get to grips with data science and machine learning using MLLib, ML Pipelines, H2O, Hivemall, Graphx, SparkR and Hivemall. In Detail Big Data Analytics book aims at providing the fundamentals of Apache Spark and Hadoop. All Spark components ? Spark Core, Spark SQL, DataFrames, Data sets, Conventional Streaming, Structured Streaming, MLlib, Graphx and Hadoop core components ? HDFS, MapReduce and Yarn are explored in greater depth with implementation examples on Spark + Hadoop clusters. It is moving away from MapReduce to Spark. So, advantages of Spark over MapReduce are explained at great depth to reap benefits of in-memory speeds. DataFrames API, Data Sources API and new Data set API are explained for building Big Data analytical applications. Real-time data analytics using Spark Streaming with Apache Kafka and HBase is covered to help building streaming applications. New Structured streaming concept is explained with an IOT (Internet of Things) use case. Machine learni...

2. Record Nr. UNINA9910770252803321

Autore	Dincer Ibrahim
Titolo	Solar Ponds : Systems and Applications / / by Ibrahim Dincer, Dogan Erdemir
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024
ISBN	3-031-45457-X
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (253 pages)
Disciplina	605
Soggetti	Solar energy Sun Photovoltaic power generation Renewable energy sources Energy storage Solar Thermal Energy Solar Physics Photovoltaics Renewable Energy Mechanical and Thermal Energy Storage

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1 Solar Energy Systems -- Chapter 2 Thermal Energy Storage Systems -- Chapter 3 Solar Pond Systems -- Chapter 4 Solar Pond Applications -- Chapter 5 Analysis and Assessment of Solar Ponds -- Chapter 6 Environmental Impact and Sustainability Assessments -- Chapter 7 Practical Examples and Case Studies on Solar Ponds.
Sommario/riassunto	This book is about solar ponds for energy storage from various perspectives, including fundamentals, efficiencies, system designs, local applications and details about what have been done in the world in the field of solar ponds for generating energy and storage it for useful purposes. Features case studies, illustrative examples and problems Illustrates design integrated energy systems with solar ponds Includes utilization and discussion of exergy analysis and assessment methods Provides historical perspectives Discusses environmental impacts and sustainability aspects .