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An introduction to the

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theory and methods of empirical asset pricing, integrating classical foundations with recent developments. This book offers a comprehensive advanced introduction to

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asset pricing, the study of models for the prices and returns of various securities. The focus is empirical, emphasizing how the models relate to the data. The book offers a

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uniquely integrated treatment, combining classical foundations with more recent developments in the literature and relating some of the material to applications

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in investment management. It covers the theory of empirical asset pricing, the main empirical methods, and a range of applied topics. The book introduces the theory of

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empirical asset pricing through three main paradigms: mean variance analysis, stochastic discount factors, and beta pricing models. It describes empirical

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methods, beginning with the generalized method of moments (GMM) and viewing other methods as special cases of GMM; offers a comprehensive review of fund performance

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evaluation; and presents selected applied topics, including a substantial chapter on predictability in asset markets that covers predicting the level of returns,

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volatility and higher moments, and predicting cross-sectional differences in returns. Other chapters cover production-based asset pricing, long-run risk

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models, the Campbell-Shiller approximation, the debate on covariance versus characteristics, and the relation of volatility to the cross-section of stock returns.

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An extensive reference section captures the current state of the field. The book is intended for use by graduate students in finance and economics; it

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can also serve as a reference for professionals.

Statistical Regression and Classification: From Linear Models to Machine Learning takes an

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innovative look at the traditional statistical regression course, presenting a contemporary treatment in line with today's applications and users. The text takes a

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modern look at regression:
* A thorough treatment of classical linear and generalized linear models, supplemented with introductory material on machine learning methods.

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* Since classification is the focus of many contemporary applications, the book covers this topic in detail, especially the multiclass case. * In view of the voluminous nature

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of many modern datasets, there is a chapter on Big Data. * Has special Mathematical and Computational Complements sections at ends of chapters, and exercises

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are partitioned into Data, Math and Complements problems. * Instructors can tailor coverage for specific audiences such as majors in Statistics, Computer Science, or

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Economics. * More than 75 examples using real data. The book treats classical regression methods in an innovative, contemporary manner. Though some statistical learning

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methods are introduced, the primary methodology used is linear and generalized linear parametric models, covering both the Description and Prediction

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goals of regression methods. The author is just as interested in Description applications of regression, such as measuring the gender wage gap in Silicon Valley, as

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in forecasting tomorrow's demand for bike rentals. An entire chapter is devoted to measuring such effects, including discussion of Simpson's Paradox, multiple

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inference, and causation issues. Similarly, there is an entire chapter of parametric model fit, making use of both residual analysis and assessment via

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nonparametric analysis.

Norman Matloff is a professor of computer science at the University of California, Davis, and was a founder of the Statistics Department at

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that institution. His current research focus is on recommender systems, and applications of regression methods to small area estimation and bias reduction in

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observational studies. He is on the editorial boards of the Journal of Statistical Computation and the R Journal. An award-winning teacher, he is the author of The Art

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of R Programming and Parallel Computation in Data Science: With Examples in R, C++ and CUDA.

Communications technology
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Architecture and Design
Quantum communication
Sensor fusion Software
Software Engineering
Sensors System
implementation Information
Technology and Systems

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Computer Applications

The human brain, with its hundred billion or more neurons, is both one of the most complex systems known to man and one of the most important. The

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last decade has seen an explosion of experimental research on the brain, but little theory of neural networks beyond the study of electrical properties of membranes and small

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neural circuits.

Nonetheless, a number of workers in Japan, the United States and elsewhere have begun to contribute to a theory which provides techniques

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of mathematical analysis and computer simulation to explore properties of neural systems containing immense numbers of neurons. Recently, it has been gradually recognized

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that rather independent studies of the dynamics of pattern recognition, pattern formation, motor control, self-organization, etc. , in neural systems do in fact

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make use of common methods. We find that a "competition and cooperation" type of interaction plays a fundamental role in parallel information

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processing in the brain. The present volume brings together 23 papers presented at a U. S. -Japan Joint Seminar on "Competition and Cooperation in Neural

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Nets" which was designed to catalyze better integration of theory and experiment in these areas. It was held in Kyoto, Japan, February 15-19, 1982, under the joint

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sponsorship of the U. S. National Science Foundation and the Japan Society for the Promotion of Science. Participants included brain theorists, neurophysiologists,

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mathematicians, computer scientists, and physicists. There are seven papers from the U. S.

Deep Learning with Python
The Nature of Statistical

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Learning Theory
Empirical Asset Pricing
Achievements and
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Handbook Of Financial
Econometrics, Mathematics,

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Statistics, And Machine
Learning (In 4 Volumes)
Developing Predictive-
model-based Trading
Systems Using TSSB

***About this book This book
provides you the powerful***

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***and brand new knowledge
on predicting financial
market that we have
discovered in several
years of our own research
and development work.
This book will help you to***

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***turn your intuition into
the scientific prediction
method. In the course of
recognizing the price
patterns in the chart of
Forex and Stock market,
you should be realized***

***that it was your intuition
working at the
background for you. The
geometric prediction
devised in this book will
show you the scientific
way to predict the***

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***financial market using
your intuition. Many of us
made a mistake of
viewing the financial
market with deterministic
cycle. Even though we
knew that market would***

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not show us such a simple prediction pattern, we never stop using the concept of deterministic cycle to predict the financial market, for example, using Fourier

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transform, and other similar techniques. Why is that so? The reason is simple. It is because no one presented an effective way of predicting stochastic

cycle. Stochastic cycle is the true face of the financial market because many variables in the market are suppressing the predictable cycle with fixed time interval. So

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***how we predict the
stochastic cycle present
in the financial market?
The key to answer is the
Fractal Pattern and
Fractal Wave. The
geometric prediction on***

Fractal Wave solves the puzzles of the stochastic cycle modelling problem together. In another words, your intuition, more precisely your capability to recognize

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geometric shape, is more powerful than any other technical indicators available in the market. Hence, the geometric prediction, which comes from your intuition,

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***would maximize your
ability to trade in the
financial market. In this
book, Geometric
prediction is described as
the combined ability to
recognize the geometric***

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***regularity and statistical
regularity from the chart.
We provide the examples
of geometric regularity
and statistical regularity.
In addition, we will show
you how these***

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***regularities are related to
your intuition. The chart
patterns covered in this
book include support,
resistance, Fibonacci
Price pattern, Harmonic
Pattern, Falling Wedge***

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***pattern, Rising Wedge
pattern, and Gann Angles
with probability. We use
these chart patterns to
detect geometric
regularity. Then, we use
the turning point***

probability as the mean of detecting statistical regularity. In our trading, we combine both to improve the trading performance.

This book serves two

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purposes. First, it teaches the importance of using sophisticated yet accessible statistical methods to evaluate a trading system before it is put to real-world use. In

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***order to accommodate
readers having limited
mathematical
background, these
techniques are illustrated
with step-by-step
examples using actual***

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***market data, and all
examples are explained in
plain language. Second,
this book shows how the
free program TSSB
(Trading System
Synthesis & Boosting) can***

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be used to develop and test trading systems. The machine learning and statistical algorithms available in TSSB go far beyond those available in other off-the-shelf

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state-of-the-art
techniques greatly
improves the likelihood of
obtaining a trading
system whose impressive***

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***Detect overfitting before
deploying your system***

Estimate performance

bias due to model fitting

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***and selection of
seemingly superior
systems Use state-of-the-
art ensembles of models
to form consensus trade
decisions Build optimal
portfolios of trading***

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***systems and rigorously
test their expected
performance Search
thousands of markets to
find subsets that are
especially predictable
Create trading systems***

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that specialize in specific market regimes such as trending/flat or high/low volatility More information on the TSSB program can be found at TSSBsoftware dot com.

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***This volume constitutes
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Systems, HAIS 2017, held
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2017. The 60 full papers published in this volume were carefully reviewed and selected from 130 submissions. They are organized in the following topical sections: data

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***mining, knowledge
discovery and big data;
bioinspired models and
evolutionary computing;
learning algorithms;
visual analysis and
advanced data processing***

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techniques; data mining applications; and hybrid intelligent applications. Artificial intelligence (AI) has grown in presence in asset management and has revolutionized the

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sector in many ways. It has improved portfolio management, trading, and risk management practices by increasing efficiency, accuracy, and compliance. In particular,

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***AI techniques help
construct portfolios based
on more accurate risk and
return forecasts and more
complex constraints.
Trading algorithms use AI
to devise novel trading***

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signals and execute trades with lower transaction costs. AI also improves risk modeling and forecasting by generating insights from new data sources. Finally,

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robo-advisors owe a large part of their success to AI techniques. Yet the use of AI can also create new risks and challenges, such as those resulting from model opacity,

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***complexity, and reliance
on data integrity.***

***Machine Learning with R
Proceeding of CISC 2021
Swarm, Evolutionary, and
Memetic Computing and
Fuzzy and Neural***

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Computing

***Industry 4.0 Technologies
for Business Excellence***

Fibonacci Analysis,

Harmonic Pattern, Elliott

Wave, and X3 Chart

Pattern

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***Quantitative Trading
Machine Learning for
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**This open access Pivot
demonstrates how a
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**act as innovation
catalysts within the
banking and financial
services sector.
Traditional banks and
financial services are
under increasing**

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**competition from global
IT companies such as
Google, Apple, Amazon
and PayPal whilst facing
pressure from investors
to reduce costs, increase
agility and improve**

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customer retention.

**Technologies such as
blockchain, cloud
computing, mobile
technologies, big data
analytics and social
media therefore have**

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**perhaps more potential in
this industry and area of
business than any other.
This book defines a
fintech ecosystem for the
21st century, providing a
state-of-the art review of**

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**current literature,
suggesting avenues for
new research and
offering perspectives
from business,
technology and industry.
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post-conference
proceedings of the 7th
International Conference
on Swarm, Evolutionary,
and Memetic Computing,
SEMCCO 2019, and 5th**

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**International Conference
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Computing, FANCCO
2019, held in Maribor,
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presented in this volume**

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**were carefully reviewed
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**This book gathers papers
addressing state-of-the-
art research in the areas
of machine learning and
predictive analysis,
presented virtually at the**

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**such as intelligent agent
and multi-agent systems
in various domains,
machine learning,
intelligent information
retrieval and business
intelligence, intelligent**

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**information system
development using
design science principles,
intelligent web mining
and knowledge discovery
systems.**

The aim of this book is to

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discuss the fundamental ideas which lie behind the statistical theory of learning and generalization. It considers learning as a general problem of

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**function estimation based
on empirical data.
Omitting proofs and
technical details, the
author concentrates on
discussing the main
results of learning theory**

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and their connections to fundamental problems in statistics. This second edition contains three new chapters devoted to further development of the learning theory and

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**SVM techniques. Written
in a readable and concise
style, the book is
intended for statisticians,
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Frameworks, Practices,
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Financial Forecasting
Using Data Mining
Techniques
Handbook of Research on
Applications and
Implementations of

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**Machine Learning
Techniques**

*Data Mining: Practical Machine
Learning Tools and Techniques,
Fourth Edition, offers a thorough
grounding in machine learning*

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concepts, along with practical advice on applying these tools and techniques in real-world data mining situations. This highly anticipated fourth edition of the most acclaimed work on data mining and machine learning teaches readers everything

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they need to know to get going, from preparing inputs, interpreting outputs, evaluating results, to the algorithmic methods at the heart of successful data mining approaches. Extensive updates reflect the technical changes and

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workbench; again a very comprehensive learning aid for the open source software that goes with the book Table of contents, highlighting the many new sections in the 4th edition, along with reviews of the 1st edition, errata, etc.

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Provides a thorough grounding in machine learning concepts, as well as practical advice on applying the tools and techniques to data mining projects Presents concrete tips and techniques for performance improvement that work by

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transforming the input or output in machine learning methods Includes a downloadable WEKA software toolkit, a comprehensive collection of machine learning algorithms for data mining tasks-in an easy-to-use interactive interface Includes open-

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access online courses that introduce practical applications of the material in the book

Exotic methods refer to specific functions within general soft computing methods such as genetic algorithms, neural networks and

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rough sets theory. They are applied to ordinary shares for a variety of financial purposes, such as portfolio selection and optimization, classification of market states, forecasting of market states and data mining. This is in contrast to

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the wide spectrum of work done on exotic financial instruments, wherein advanced mathematics is used to construct financial instruments for hedging risks and for investment. In this book, particular aspects of the general method are used to create

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interesting applications. For instance, genetic niching produces a family of portfolios for the trader to choose from. Support vector machines, a special form of neural networks, forecast the financial markets; such a forecast is on

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market states, of which there are three — uptrending, mean reverting and downtrending. A self-organizing map displays in a vivid manner the states of the market. Rough sets with a new discretization method extract information from stock

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Basics and Its Applications in Economic and Financial Forecasting Time Series Forecasting Using Rough Sets Theory A Review of Support Vector Machines in Regression Estimation Application of Support Vector Machines in

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Financial Time Series

Forecasting Other Methods and

Their Applications Readership:

Researchers and practitioners in

soft computing and artificial

intelligence, as well as graduate

students in related areas.

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Keywords:

Many books and courses tackle natural language processing (NLP) problems with toy use cases and well-defined datasets. But if you want to build, iterate, and scale NLP systems in a business setting and

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tailor them for particular industry verticals, this is your guide.

Software engineers and data scientists will learn how to navigate the maze of options available at each step of the journey. Through the course of the book, authors

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industry verticals such as healthcare, social media, and retail. With this book, you'll: Understand the wide spectrum of problem statements, tasks, and solution approaches within NLP Implement and evaluate different NLP

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Produce software solutions following best practices around release, deployment, and DevOps for NLP systems Understand best practices, opportunities, and the roadmap for NLP from a business and product leader's perspective

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*Competition and Cooperation in
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Greece, May 24-26, 2019,*

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Proceedings

Statistically Sound Machine

*Learning for Algorithmic Trading of
Financial Instruments*

*Predict the Future with MLPs, CNNs
and LSTMs in Python*

The internet of things (IoT) has

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emerged to address the need for connectivity and seamless integration with other devices as well as big data platforms for analytics. However, there are challenges that IoT-based applications face including design

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and implementation issues; connectivity problems; data gathering, storing, and analyzing in cloud-based environments; and IoT security and privacy issues. Emerging Trends in IoT and Integration with Data Science,

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Cloud Computing, and Big Data Analytics is a critical reference source that provides theoretical frameworks and research findings on IoT and big data integration. Highlighting topics that include wearable sensors, machine

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learning, machine intelligence, and mobile computing, this book serves professionals who want to improve their understanding of the strategic role of trust at different levels of the information and knowledge society. It is

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therefore of most value to data scientists, computer scientists, data analysts, IT specialists, academicians, professionals, researchers, and students working in the field of information and knowledge management in

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various disciplines that include but are not limited to information and communication sciences, administrative sciences and management, education, sociology, computer science, etc. Moreover, the book provides

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insights and supports executives concerned with the management of expertise, knowledge, information, and organizational development in different types of work communities and environments.

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This book captures deploying Industry 4.0 technologies for business excellence and moving towards Society 5.0. It addresses applications of Industry 4.0 in the areas of marketing, operations, supply chain, finance, and HR to

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achieve business excellence.

Industry 4.0 Technologies for Business Excellence: Frameworks, Practices, and Applications focuses on the use of AI in management across different sectors. It explores the benefits through a human-

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centered approach to resolving social problems by integrating cyberspace and physical space. It discusses the framework for moving towards Society 5.0 and keeping a balance between economic and social gains. This

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book brings together researchers, developers, practitioners, and users interested in exploring new ideas, techniques, and tools and exchanging their experiences to provide the most recent information on Industry 4.0

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applications in the field of business excellence. Graduate or postgraduate students, professionals, and researchers in the fields of operations management, manufacturing, healthcare, supply chain,

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marketing, finance, and HR will find this book full of new ideas, techniques, and tools related to Industry 4.0.

"While institutional traders continue to implement quantitative (or algorithmic)

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trading, many independent traders have wondered if they can still challenge powerful industry professionals at their own game? The answer is "yes," and in Quantitative Trading, Dr. Ernest Chan, a respected independent

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trader and consultant, will show you how. Whether you're an independent "retail" trader looking to start your own quantitative trading business or an individual who aspires to work as a quantitative trader at a major

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financial institution, this practical guide contains the information you need to succeed"--Resource description page.

Data science is a multi-disciplinary field that uses scientific methods, processes, algorithms, and systems

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to extract knowledge and insights from structured (labeled) and unstructured (unlabeled) data. It is the future of Artificial Intelligence (AI) and a necessity of the future to make things easier and more productive. In simple terms, data

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science is the discovery of data or uncovering hidden patterns (such as complex behaviors, trends, and inferences) from data. Moreover, Big Data analytics/data analytics are the analysis mechanisms used in data science by data scientists.

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Several tools, such as Hadoop, R, etc., are used to analyze this large amount of data to predict valuable information and for decision-making. Note that structured data can be easily analyzed by efficient (available) business intelligence

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tools, while most of the data (80% of data by 2020) is in an unstructured form that requires advanced analytics tools. But while analyzing this data, we face several concerns, such as complexity, scalability, privacy leaks, and trust

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issues. Data science helps us to extract meaningful information or insights from unstructured or complex or large amounts of data (available or stored virtually in the cloud). Data Science and Data Analytics: Opportunities and

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Challenges covers all possible areas, applications with arising serious concerns, and challenges in this emerging field in detail with a comparative analysis/taxonomy. FEATURES Gives the concept of data science, tools, and algorithms

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others. It also covers statistical distributions, such as the binomial and log normal distributions, in light of their applications to portfolio theory and asset management in addition to their use in research regarding options and futures contracts. In both theory and methodology, we need to rely upon mathematics, which includes linear algebra,

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geometry, differential equations, Stochastic differential equation (Ito calculus), optimization, constrained optimization, and others. These forms of mathematics have been used to derive capital market line, security market line (capital asset pricing model), option pricing model, portfolio analysis, and others. In recent times, an

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Neural Networks, EANN 2019, held in Xersonisos, Crete, Greece, in May 2019. The 35 revised full papers and 5 revised short papers presented were carefully reviewed and selected from 72 submissions. The papers are organized in topical sections on AI in energy management - industrial applications; biomedical - bioinformatics

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modeling; classification - learning; deep learning; deep learning - convolutional ANN; fuzzy - vulnerability - navigation modeling; machine learning modeling - optimization; ML - DL financial modeling; security - anomaly detection; 1st PEINT workshop.

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***highlights, in particular,
innovative research in the
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and software engineering.
Summary Deep Learning***

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with Python introduces the field of deep learning using the Python language and the powerful Keras library.

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François Chollet works on
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Mountain View, CA. He is the creator of the Keras deep-learning library, as well as a contributor to the TensorFlow machine-learning framework. He also does deep-learning research,

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with a focus on computer vision and the application of machine learning to formal reasoning. His papers have been published at major conferences in the field, including the Conference on

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on Learning Representations***

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***(ICLR), and others. Table of
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LEARNING What is deep
learning? Before we begin:
the mathematical building
blocks of neural networks***

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***Getting started with neural
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