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The goal of machine learning is to program computers to use example data or past experience to solve a given problem. Many successful applications of machine learning exist already, including systems that analyze past sales data to predict customer behavior, optimize robot behavior so that a task can be completed using minimum resources, and extract knowledge from bioinformatics data.

Introduction to Machine Learning is a comprehensive textbook on the subject, covering a broad array of topics not usually included

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in introductory machine learning texts. Subjects include supervised learning; Bayesian decision theory; parametric, semi-parametric, and nonparametric methods; multivariate analysis; hidden Markov models; reinforcement learning; kernel machines; graphical models; Bayesian estimation; and statistical testing. Machine learning is rapidly becoming a skill that computer science students must master before graduation. The third edition of Introduction to Machine Learning reflects this shift, with added support for beginners, including selected solutions

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for exercises and additional example data sets (with code available online). Other substantial changes include discussions of outlier detection; ranking algorithms for perceptrons and support vector machines; matrix decomposition and spectral methods; distance estimation; new kernel algorithms; deep learning in multilayered perceptrons; and the nonparametric approach to Bayesian methods. All learning algorithms are explained so that students can easily move from the equations in the book to a computer program. The book can be used by both advanced

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undergraduates and graduate students. It will also be of interest to professionals who are concerned with the application of machine learning methods.

In our endeavor to reinforce and emphasize the benefits of modern industrial design course to many students across India we are bringing on a small edition of this book titled "Concepts in Engineering Design" .The subtlety of creation with problem solving approach is needed to be deeply ingrained into the vast diaspora of Indian students; especially with emphasis of government on make in India , start up India and zero

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effect zero defect projects. It is abundantly clear that classroom teaching has to be up scaled with practical approach and industrial reasoning. So the takeaway from this course to students, researchers and professional after the course should be engineering with a systems approach, involvement of design development as a team, integration of several streams of learning like environmental, physiology etc. into the Concept of Engineering Design. We wish we are in some manner involved in changing their outlook from classic learning to professional

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learning involving them into project based activity, case studies , resourceful learning etc. They become agents of change for future generations and they grasp the fact that they can become professional designers and not merely subservient engineers. Good luck. “The primary objective of the course is to introduce concepts in engineering design to students from all the engineering disciplines. This course broadly covers the prerequisites for an innovative design followed by concepts of products design cycle right from planning, designing,

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manufacturing, distributing and its usage.”-RGPV

Printed antennas have become an integral part of next-generation wireless communications and have been found to be commonly used to improve system capacity, data rate, reliability, etc. This book covers theory, design techniques, and the chronological regression of the printed antennas for various applications. This book will provide readers with the basic conceptual knowledge about antennas along with advanced techniques for antenna design. It covers a variety of analytical techniques and their CAD applications and

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discusses new applications of printed antenna technology such as sensing. The authors also present special reconfigurable antennas such as ME dipole, polarization, feeding, and DGS. The book will be useful to students as an introduction to design and applications of antennas. Additionally, experienced researchers in this field will find this book a ready reference and benefit from the techniques of research in printed antennas included in this book. Following are some of the salient features of this book: Covers a variety of analytical techniques and their CAD

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applications Discusses new applications of printed antenna technology such as sensing Examines the state of design techniques of printed antenna Presents special reconfigurable antennas such as ME dipole, polarization, feeding, and DGS

There are four volume of this series . Nanomaterial vol 1,2,3,4. this series covers the MTech nanotechnology syllabus of RGPV Bhopal

Energy Management

Using Computational Intelligence for the Dark Web and Illicit Behavior

Detection

Dark Web Pattern Recognition

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*and Crime Analysis Using
Machine Intelligence
Materials, Energy and
Environment Engineering
Issues, Analytics, and
Performance
Exploring Lead-Free
Ferroelectrics*

***This book provides an
overview of Aurivillius
phase layer structured
ferroelectrics. With a
focus on in-depth
classification of
Aurivillius phase
oxides, this book
explores the
relationship between the
unique structure and
properties of this***

family of compounds. The result is a cohesive account of the electrical, ferroelectric and dielectric properties of layer structured oxides that discusses their role in developing environmentally sustainable compounds. An essential reference for professionals and academics working in the field of electroceramics, electronic component manufacture, materials science and engineering,

this book is also an ideal reference book for research-oriented courses at Graduate, Postgraduate and Doctoral level. Key Features: Presents a new class of ferroelectrics Provides a complete review of these materials and their future prospects Serves as the data book for industries working on various types of electronic devices by adopting the reported results of layered ferroelectrics for

future potential applications Reviews environment friendly materials for their applications in the area of energy harvesting Includes case studies and end of chapter summaries

Energy Management: Conservation and Audit discusses the energy scenario, including energy conservation, management, and audit, along with the methodology supported by industrial examples. Energy economics of

systems has been elaborated with concepts of life cycle assessment and costing, and rate of return. Topics such as energy storage, co-generation, and waste heat recovery to energy efficiency have discussed. The challenges faced in conserving energy sources (steam and electricity) have elaborated along with the improvements in the lighting sector. Further, it covers optimization procedures

for the development in the industry related to energy conservation. The researchers, senior undergraduate, and graduate students focused on Energy Management, Sustainable Energy, Renewable Energy, Energy Audits, and Energy Conservation. This book covers current information related to energy management and includes energy audit and review all the leading equipment (boilers, CHP, pumps, heat exchangers) as well

as procedural frameworks (energy audits, action planning, monitoring). It includes energy production and management from an industrial perspective, along with highlighting the various processes involved in energy conservation and auditing in various sectors and associated methods. It also explores future energy options and directions for energy security and sustainability.

The four volumes of

Construction Technology provide a comprehensive guide to building technology from simple domestic single storey construction using traditional techniques to more complex multi-storey construction using more modern industrialised techniques. Each volume describes the technology concisely and is well illustrated with the author's own illustrations. The series provides a basic knowledge of all

building activities from basic methods of construction in the early volumes through to more complex topics such as site planning, curtain walling and builders plant in later volumes. The series concentrates on the technology and avoids lengthy descriptive passages, leaving the description to the author's very detailed drawings. Volume 2 completes the coverage of conventional methods and materials of

construction. As with volume 1, it deals with the construction of a small structure such as a bungalow or two-storey house. The book introduces more complex topics than are covered in volume 1. It deals with site and temporary works, e.g. simple excavations and scaffolding; substructure topics such as retaining walls and reinforce concrete foundations; simple framed buildings; floors and roof structures such

as precast concrete floors and asphalt and lead-covered roofs; finishes and fittings such as simple concrete stairs; insulation; and services such as electrical and gas installations.

By applying data analytics techniques and machine learning algorithms to predict disease, medical practitioners can more accurately diagnose and treat patients. However, researchers face problems in identifying

suitable algorithms for pre-processing, transformations, and the integration of clinical data in a single module, as well as seeking different ways to build and evaluate models. The Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning is a pivotal reference source that explores the application of algorithms to making disease predictions through the identification of

symptoms and information retrieval from images such as MRIs, ECGs, EEGs, etc. Highlighting a wide range of topics including clinical decision support systems, biomedical image analysis, and prediction models, this book is ideally designed for clinicians, physicians, programmers, computer engineers, IT specialists, data analysts, hospital administrators, researchers, academicians, and

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graduate and post-graduate students.

Concepts in Engineering Design

Aurivillius Phase

Materials

Information Storage and Management

Design and Optimization of Biogas Energy Systems

Construction Technology Fundamentals and

Applications

Theory of Elasticity and Plasticity is designed as a textbook for both undergraduate and postgraduate students of engineering in civil, mechanical and aeronautical

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disciplines. This book has been written with the objective of bringing the concepts of elasticity and plasticity to the students in a simplified and comprehensive manner. The basic concepts, definitions, theory as well as practical applications are discussed in a clear, logical and concise manner for better understanding. Starting with, general relationships between stress, strain and deformations, the book deals with specific problems on plane stress, plane strain and torsion in non-circular sections. Advanced topics such as membrane analogy, beams on elastic foundations

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and plastic analysis of pressure vessels are also discussed elaborately. For better comprehension, the text is well supported with:

- ? Large number of worked-out examples in each chapter. ?*
- Well-labelled illustrations.*
- ? Numerous Review Questions that reinforce the understanding of the subject. As all the concepts are covered extensively with a blend of theory and practice, this book will be a useful resource to the students.*

This manual is specially written for Students who are interested in understanding Structured Query Language and PL-SQL concepts in the

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Computer Engineering and Information technology field and wants to gain enhance knowledge about power of SQL Language in Relational Database Management System Development. The manual covers practical point of view in all aspects of SQL and PL/SQL including DDL, DML, DCL sublanguages, also there are practices for Views, Group by, Having Clause. All PL-SQL concepts like Condition and Loop Structures, Functions and Procedures, Cursor, Triggers, Locks are illustrated using best examples

This book focuses on the key technologies, challenges,

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and research directions of the Industrial Internet of Things (IIoT). It provides a basis for discussing open principles, methods, and research problems, and provides a systematic overview of the state-of-the-art research efforts, directions, and potential challenges associated with IIoT. Industrial Internet of Things: Technologies and Research Directions covers how industry automation is projected to be the largest and fastest-growing segment of the market. It explores the collaborative development of high-performance telecommunications,

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military, industrial, and general-purpose embedded computing applications, and offers a systematic overview of the state-of-the-art research efforts and new potential directions.

Researchers, academicians, and professionals working in this inter-disciplinary area will be interested in this book.

In today's age of wireless and mobile computing, network and computer security is paramount. Case Studies in Secure Computing: Achievements and Trends gathers the latest research from researchers who share their insights and best practices through

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illustrative case studies. This book examines the growing security attacks and countermeasures in the s Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm Embedded System Design Design Manual for Concrete Arch Dams

*Achievements and Trends
THEORY OF ELASTICITY AND
PLASTICITY*

IoT based Projects

This edited volume comprises the proceedings of ICACE-2015. In the recent past Chemical Engineering as a discipline has been diversifying into several frontier areas and this volume addresses the advances in core Chemical Engineering as well as allied fields.

The contents of this volume focus on energy and environmental applications of chemical engineering research and on materials science aspects of chemical engineering. This book will be useful to researchers, students, and professionals, particularly those working on interdisciplinary applications of Chemical Engineering problems. The new edition of a bestseller, now revised and update throughout! This new edition of the unparalleled bestseller serves as a full training course all in one and as the world's largest data storage company, EMC is the ideal author for such a critical resource. They cover the components of a storage system and the different storage system models while also offering essential

new material that explores the advances in existing technologies and the emergence of the "Cloud" as well as updates and vital information on new technologies. Features a separate section on emerging area of cloud computing Covers new technologies such as: data de-duplication, unified storage, continuous data protection technology, virtual provisioning, FCoE, flash drives, storage tiering, big data, and more Details storage models such as Network Attached Storage (NAS), Storage Area Network (SAN), Object Based Storage along with virtualization at various infrastructure components Explores Business Continuity and Security in physical and virtualized environment Includes an enhanced Appendix for additional information

This authoritative guide is essential for getting up to speed on the newest advances in information storage and management.

Cloud technologies have revolutionized the way we store information and perform various computing tasks. With the rise of this new technology, the ability to secure information stored on the cloud becomes a concern. The Handbook of Research on Securing Cloud-Based Databases with Biometric Applications explores the latest innovations in promoting cloud security through human authentication techniques.

Exploring methods of access by identification, including the analysis of facial features, fingerprints, DNA, dental characteristics, and voice patterns, this publication is

designed especially for IT professionals, academicians, and upper-level students seeking current research surrounding cloud security.

Population, exuberant growth of urbanization, decline of cultivable lands, growing number of vehicle on the roads, deforestation, industrialization, changing pattern of consumption and exploitation of natural recourses by human activities have all threatened our basic survival on earth. In order to protect our globe from the environmental degradation, it is necessary to know the various factors by all human being. This book is written to provide a clear and authoritative introduction to the subject of Energy, Environment, Ecology and Society. Salient

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Features Presentation of the material in lucid manner Distinctive coverage on all Energy Resources Presentation of suitable illustrations with clear diagrams Review questions are given in each chapter

Computer Organization & Architecture 7e

Nanomaterial Vol 4

A Unified Hardware/Software Introduction

Introduction to Machine Learning with Python

Theory and Design

Printed Antennas

Machine learning has become an integral part of many commercial applications and research projects, but this field is not exclusive to large

companies with extensive research teams. If you use Python, even as a beginner, this book will teach you practical ways to build your own machine learning solutions. With all the data available today, machine learning applications are limited only by your imagination. You ' ll learn the steps necessary to create a successful machine-learning application with Python and the scikit-learn library.

Authors Andreas Müller and Sarah Guido focus on the practical aspects of using machine learning algorithms,

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rather than the math behind them. Familiarity with the NumPy and matplotlib libraries will help you get even more from this book. With this book, you ' ll learn:

- Fundamental concepts and applications of machine learning
- Advantages and shortcomings of widely used machine learning algorithms
- How to represent data processed by machine learning, including which data aspects to focus on
- Advanced methods for model evaluation and parameter tuning
- The concept of pipelines for chaining models and

encapsulating your workflow
Methods for working with
text data, including text-
specific processing
techniques Suggestions for
improving your machine
learning and data science
skills

The Definitive Guide to File
System Analysis: Key
Concepts and Hands-on
Techniques Most digital
evidence is stored within the
computer's file system, but
understanding how file
systems work is one of the
most technically challenging
concepts for a digital
investigator because there

exists little documentation. Now, security expert Brian Carrier has written the definitive reference for everyone who wants to understand and be able to testify about how file system analysis is performed. Carrier begins with an overview of investigation and computer foundations and then gives an authoritative, comprehensive, and illustrated overview of contemporary volume and file systems: Crucial information for discovering hidden evidence, recovering deleted data, and validating your tools. Along the way, he

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describes data structures, analyzes example disk images, provides advanced investigation scenarios, and uses today's most valuable open source file system analysis tools—including tools he personally developed. Coverage includes Preserving the digital crime scene and duplicating hard disks for "dead analysis" Identifying hidden data on a disk's Host Protected Area (HPA) Reading source data: Direct versus BIOS access, dead versus live acquisition, error handling, and more Analyzing DOS, Apple, and GPT

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partitions; BSD disk labels; and Sun Volume Table of Contents using key concepts, data structures, and specific techniques Analyzing the contents of multiple disk volumes, such as RAID and disk spanning Analyzing FAT, NTFS, Ext2, Ext3, UFS1, and UFS2 file systems using key concepts, data structures, and specific techniques Finding evidence: File metadata, recovery of deleted files, data hiding locations, and more Using The Sleuth Kit (TSK), Autopsy Forensic Browser, and related open source tools When it comes to file system

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analysis, no other book offers this much detail or expertise. Whether you're a digital forensics specialist, incident response team member, law enforcement officer, corporate security specialist, or auditor, this book will become an indispensable resource for forensic investigations, no matter what analysis tools you use. Web browsing would not be what it is today without the use of Service-Oriented Architecture (SOA). Although much has been written about SOA methodology, this emerging platform is

continuously under development. Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm is a detailed reference source that examines current aspects and research methodologies that enable enterprise service bus to unify and connect services efficiently on a common platform. Featuring relevant topics such as SOA reference architecture, grid computing applications, complex event computing, and java business integration, this is an ideal resource for all practitioners, academicians, graduate

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students, and researchers interested in the discoveries on the relationship that Service-Oriented architecture and enterprise service bus share.

There are four volume of this book series, nanomaterial vol 1,2,3,4. The whole series covers the whole syllabus of MTech

nanotechnology (RGPV). The main purpose of these books are to provide the complete syllabus of PG students at one place at very low cost.

Case Studies in Secure Computing
Integration and

Implementation of the
Internet of Things Through
Cloud Computing
Nanomaterial Volume 4
Impact and Challenges
Nanomaterial Vol 3
Intelligence of Things: AI-IoT
Based Critical-Applications
and Innovations
MACHINE LEARNING AND DATA
SCIENCE Written and edited by a
team of experts in the field, this
collection of papers reflects the
most up-to-date and
comprehensive current state of
machine learning and data science
for industry, government, and
academia. Machine learning (ML)
and data science (DS) are very

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active topics with an extensive scope, both in terms of theory and applications. They have been established as an important emergent scientific field and paradigm driving research evolution in such disciplines as statistics, computing science and intelligence science, and practical transformation in such domains as science, engineering, the public sector, business, social science, and lifestyle. Simultaneously, their applications provide important challenges that can often be addressed only with innovative machine learning and data science algorithms. These algorithms encompass the larger areas of artificial intelligence, data analytics,

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machine learning, pattern recognition, natural language understanding, and big data manipulation. They also tackle related new scientific challenges, ranging from data capture, creation, storage, retrieval, sharing, analysis, optimization, and visualization, to integrative analysis across heterogeneous and interdependent complex resources for better decision-making, collaboration, and, ultimately, value creation. Design and Optimization of Biogas Energy Systems presents an overview on planning, implementing, assessing and optimizing biogas systems, from fuel conversion to power generation. The book introduces

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the fundamental elements of bioenergy systems, highlighting the specificities of biogas systems. It discusses the current state of their adoption at a global level and the challenges faced by designers and operators. Methods for sizing, simulating and modeling are discussed, including prefeasibility analysis, available production processes, integration into hybrid energy systems, and the application of Big Data analysis and game theory concepts. All chapters include real-life examples and exercises to illustrate the topics being covered. The book goes beyond theory to offer practical knowledge of methods to reach solutions to key challenges in the

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field. This is a valuable resource for researchers, practitioners and graduate students interested in developing smart, reliable and sustainable biogas technologies. Provides an applied approach to biogas systems, from technology fundamentals, to economic and environmental assessment

Explores control methods and reliability prediction of each system component, including modeling and simulation with HOMER and MATLAB Discusses the use of Big Data analysis, numerical methods, and Game Theory for plant assessment

Create your own IoT projects Key Featuresa- Comprehensive coverage of various aspects of IoT

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concepts a- Covers various Arduino boards and shields a- Simple language, crystal clear approach and straight forward comprehensible presentation a- Adopting user-friendly style for the explanation of circuits and examples a- Includes basics of Raspberry Pi and related projects

Description The book has been written in such a way that the concepts are explained in detail. It is entirely based on the practical experience of the authors while undergoing projects with students and industries, giving adequate emphasis on circuits and code examples. To make the topics more comprehensive, circuit diagrams, photographs and code samples are

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furnished extensively throughout the book. The book is conceptualized and written in such a way that the beginner readers will find it very easy to understand and implement the circuits and programs. The objective of this book is to discuss the various projects based on the Internet of Things (IoT). What will you learn-

Internet of Things, IoT-Based Smart Camera, IoT-Based Dust Sampler

a- Learn to create ESP8266-Based Wireless Web Server and Air Pollution Meter Using Raspberry Pi, Smart Garage Door, Baggage Tracker, Smart Trash Collector, Car parking system, Home Automation-

Windows 10 on Raspberry and know to create

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Wireless Video Surveillance Robot Using Raspberry Pi Who this book is for Students pursuing BE/BSc/ME/MSc/BTech/MTech in Computer Science, Electronics, Electrical. Table of Contents

1. ESP8266-Based Wireless Web Server
2. Air Pollution Meter Using Raspberry Pi
3. Smart Garage Door
4. Baggage Tracker
5. Smart Trash Collector
6. Car parking system
7. Home Automation
8. Environmental Parameter Monitoring
9. Intelligent System for the Blind
10. Sign to Speech Using the IoTs
11. Windows 10 on Raspberry
12. Wireless Video Surveillance Robot Using Raspberry Pi
13. IoT-Based Smart Camera
14. IoT-Based Dust

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Sampler and Air Quality Monitoring System

About the Author

Dr. Rajesh Singh is currently associated with Lovely Professional University as a professor with more than sixteen years of experience in academics. He has been awarded as the gold medalist in M.Tech from RGPV, Bhopal (MP), India, and honours in his B.E. from Dr. B.R. Ambedkar University, Agra (UP), India. Dr. Anita Gehlot is currently associated with Lovely Professional University, Punjab, as an associate professor with more than twelve years of experience in academics. Her area of expertise includes embedded systems, wireless sensor networks and the Internet of Things. She has organized and conducted several

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workshops, summer internships, and expert lectures for students as well as faculty. Dr. Lovi Raj Gupta is the Executive Dean, Faculty of Technology & Sciences, Lovely Professional University. He is a leading light in the field of technical and higher education in the country. His research-focused approach and an insightful, innovative intervention of technology in education have won him much accolades and laurels. Ms. Navjot Rathour is associated with Lovely Professional University as an assistant professor with more than eight years of experience in academics. She is pursuing her PhD Electronics and communication engineering from Lovely Professional University. She

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has one patent to her account. She has published seven research papers in refereed journals and conference. Mahendra Swain is a PhD Scholar at Lovely Professional University, Jalandhar, Punjab. He has completed his B.Tech in ECE from Centurion University of Technology and Management, Bhubaneswar. He has completed his M.Tech from Lovely professional University.

This book presents select proceedings of the international conference on Innovations in Clean Energy Technologies (ICET 2020) and examines a range of durable, energy efficient and next-generation smart green technologies for sustainable future

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by reflecting on the trends, advances and development taking place all across the globe. The topics covered include smart technologies based product, energy efficient systems, solar and wind energy, carbon sequestration, green transportation, green buildings, energy material, biomass energy, smart cities, hydro power, bio-energy and fuel cell. The book also discusses various performance attributes of these clean energy technologies and their workability and carbon footprint. The book will be a valuable reference for beginners, researchers and professionals interested in clean energy technologies.

Handbook of Research on Securing

Cloud-Based Databases with
Biometric Applications
Energy, Environment, Ecology and
Society

A Guide for Data Scientists

Conservation and Audits

Introduction to Cryptography and
Network Security

DBMS Lab Manual

The internet of things (IoT) has drawn great attention from both academia and industry, since it offers a challenging notion of creating a world where all things around us are connected to the internet and communicate with each other with minimal human intervention. Another component for helping IoT to succeed is cloud computing. The combination of cloud computing and IoT will

enable new monitoring services and powerful processing of sensory data streams. These applications, alongside implementation details and challenges, should also be explored for successful mainstream adoption. IoT is also fueled by the advancement of digital technologies, and the next generation era will be cloud-based IoT systems. Integration and Implementation of the Internet of Things Through Cloud Computing studies, analyzes, and presents cloud-based IoT-related technologies, protocols, and standards along with recent research and development in cloud-based IoT. It also presents recent emerging trends and technological advances of cloud-

based IoT, innovative applications, and the challenges and implications for society. The chapters included take a strong look at the societal and social aspects of this technology along with its implementations and technological analyses. This book is intended for IT specialists, technologists, practitioners, researchers, academicians, and students who are interested in the next era of IoT through cloud computing.

This new book provides an insightful look at the varied and exciting uses and applications of Wi-Fi and the Internet of Things in agriculture. With internet-enabled communications becoming more widely available, farms and agricultural establishments can

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take advantage of these new technologies for a wide range of farm operations, such as crop management, farm vehicle tracking, livestock monitoring, storage monitoring, and more. The collected data from these devices can be stored in the cloud system or server and accessed by the farmers via the internet or mobile phones. This book shows the many benefits to farmers from applying IoT, including better utilizing information for monitoring crops, optimizing water use, planning effective fertilization strategies, and saving time and reducing the operation expenses. Topics include using IoT for vertical farming, IoT-based smart irrigation system, landslide susceptibility assessment,

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automated aeroponics systems, crop survival analysis, and more. The volume also considers the challenges of IoT in agriculture, such as the requirements of applications of wireless sensor networks, the threat of attacks and the detection of vulnerabilities in wireless sensor networks, and more. Internet of Things for Agriculture 4.0: Impact and Challenges provides a better understanding of the time- and resourcing-saving benefits of wireless sensors and remote monitoring devices in agriculture. The volume will be useful for those involved in agricultural operations as well as scientists and researchers, and faculty and students in agriculture and computer and information science

engineering.

An Interdisciplinary Approach to Modern Network Security presents the latest methodologies and trends in detecting and preventing network threats. Investigating the potential of current and emerging security technologies, this publication is an all-inclusive reference source for academicians, researchers, students, professionals, practitioners, network analysts and technology specialists interested in the simulation and application of computer network protection. It presents theoretical frameworks and the latest research findings in network security technologies, while analyzing malicious threats which can compromise network

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integrity. It discusses the security and optimization of computer networks for use in a variety of disciplines and fields. Touching on such matters as mobile and VPN security, IP spoofing and intrusion detection, this edited collection emboldens the efforts of researchers, academics and network administrators working in both the public and private sectors. This edited compilation includes chapters covering topics such as attacks and countermeasures, mobile wireless networking, intrusion detection systems, next-generation firewalls, web security and much more. Information and communication systems are an essential component of our society, forcing us to become

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dependent on these infrastructures. At the same time, these systems are undergoing a convergence and interconnection process that has its benefits, but also raises specific threats to user interests. Citizens and organizations must feel safe when using cyberspace facilities in order to benefit from its advantages. This book is interdisciplinary in the sense that it covers a wide range of topics like network security threats, attacks, tools and procedures to mitigate the effects of malware and common network attacks, network security architecture and deep learning methods of intrusion detection.

"A textbook for beginners in security. In this new first edition,

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well-known author Behrouz Forouzan uses his accessible writing style and visual approach to simplify the difficult concepts of cryptography and network security. This edition also provides a website that includes Powerpoint files as well as instructor and students solutions manuals. Forouzan presents difficult security topics from the ground up. A gentle introduction to the fundamentals of number theory is provided in the opening chapters, paving the way for the student to move on to more complex security and cryptography topics. Difficult math concepts are organized in appendices at the end of each chapter so that students can first learn the principles, then apply

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*the technical background.
Hundreds of examples, as well as
fully coded programs, round out a
practical, hands-on approach
which encourages students to
test the material they are
learning."--Publisher's website.*

*Advances in Clean Energy
Technologies*

Introduction to Machine Learning

Design of Arch Dams

*Power System Stability and
Control*

*Storing, Managing, and Protecting
Digital Information in Classic,
Virtualized, and Cloud
Environments*

*Internet of Things for Agriculture
4.0*

**The proposed book talks
about the participation**

of human in Big Data. How human as a component of system can help in making the decision process easier and vibrant. It studies the basic build structure for big data and also includes advanced research topics. In the field of Biological sciences, it comprises genomic and proteomic data also. The book swaps traditional data management techniques with more robust and vibrant methodologies that focus on current

requirement and demand through human computer interfacing in order to cope up with present business demand.

Overall, the book is divided in to five parts where each part contains 4-5 chapters on versatile domain with human side of Big Data. The Dark Web is a known hub that hosts myriad illegal activities behind the veil of anonymity for its users. For years now, law enforcement has been struggling to track

these illicit activities and put them to an end. However, the depth and anonymity of the Dark Web has made these efforts difficult, and as cyber criminals have more advanced technologies available to them, the struggle appears to only have the potential to worsen. Law enforcement and government organizations also have emerging technologies on their side, however. It is essential for these organizations to stay up

to date on these emerging technologies, such as computational intelligence, in order to put a stop to the illicit activities and behaviors presented in the Dark Web. Using Computational Intelligence for the Dark Web and Illicit Behavior Detection presents the emerging technologies and applications of computational intelligence for the law enforcement of the Dark Web. It features

analysis into cybercrime data, examples of the application of computational intelligence in the Dark Web, and provides future opportunities for growth in this field. Covering topics such as cyber threat detection, crime prediction, and keyword extraction, this premier reference source is an essential resource for government organizations, law enforcement agencies, non-profit organizations,

politicians, computer scientists, researchers, students, and academicians.

"This book focuses on the key technologies, challenges, and research directions of IIoT. It provides a basis for discussing open principles, methods, and research problems and provides a systematic overview of the state-of-the-art research efforts, directions, and potential challenges associated with IIoT. Industrial Internet of

Things: Technologies and Research Directions covers how industry automation is projected to be the largest and fastest-growing segment of the market. It explores the collaborative development of high-performance telecommunications, military, industrial, and general-purpose embedded computing applications, and offers a systematic overview of the state-of-the-art research efforts and new

potential directions.
Researchers,
academicians, and
professionals working in
this inter-disciplinary
area will be interested
in this book"--

In the preparation of
this book, my aim has
been to present the text
in a sequential and
lucid manner, containing
all essentials of
practical surveying. The
book proves to be a
valuable source of study
to those who are
preparing for GATE and
other competitive

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examinations. This book contains Nine chapters. The most outstanding feature of the book is the condensation of the exhaustive theory into a systematic, point wise pattern and insertions of explanatory notes particularly with reference to the more common surveying operations for easy learning of the students. A large portion of the material presented in this book has been derived from the work of others .

Their contribution is greatly acknowledged. An attempt has been made to also include all the recent developments in the field of surveying.

File System Forensic Analysis

Select Proceedings of ICACE 2015

Visions, Concepts, Methods and Tools

Festschrift in Honor of Professor Holger Luczak

Select Proceedings of ICET 2020

Industrial Engineering and Ergonomics

Industrial Internet of

Things

Data stealing is a major concern on the internet as hackers and criminals have begun using simple tricks to hack social networks and violate privacy.

Cyber-attack methods are progressively modern, and obstructing the attack is increasingly troublesome, regardless of whether

countermeasures are taken. The Dark Web especially presents challenges to information privacy and security due to anonymous behaviors and the unavailability of data. To better

understand and prevent cyberattacks, it is vital to have a forecast of cyberattacks, proper safety measures, and viable use of cyber-intelligence that empowers these activities. Dark Web Pattern Recognition and Crime Analysis Using Machine Intelligence discusses cyberattacks, security, and

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safety measures to protect data and presents the shortcomings faced by researchers and practitioners due to the unavailability of information about the Dark Web. Attacker techniques in these Dark Web environments are highlighted, along with intrusion detection practices and crawling of hidden content. Covering a range of topics such as malware and fog computing, this reference work is ideal for researchers, academicians, practitioners, industry professionals, computer scientists, scholars, instructors, and students.

This book introduces a modern approach to embedded system design, presenting software design and hardware design in a unified manner. It covers trends and challenges, introduces the design and use of single-purpose processors

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("hardware") and general-purpose processors ("software"), describes memories and buses, illustrates hardware/software tradeoffs using a digital camera example, and discusses advanced computation models, controls systems, chip technologies, and modern design tools. For courses found in EE, CS and other engineering departments.

This book presents recent technologies that explore artificial intelligence (AI) and its scope in Internet of Things (IoT) enabled areas for productivity and the betterment of society. The book aims at targeting audiences of several disciplines to share research, suggest solutions, and future trends in the field of AI using IoT. Rather than looking at the field from only a theoretical or only a practical perspective, this book unifies

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both aspects to give a holistic understanding of the AI paradigm for IoT. The book focuses on timely topics related to the field of AI enabled IoT applications at large. The book consists of four major parts: fundamentals, theoretical discussion, critical applications, and the learning algorithms. These contents shall include the basics, types, tools, and techniques of AI. Finally, applications of AI enabled IoT in several areas are presented including health, security, climate change, agricultural engineering, bioinformatics, biomedicine, smart applications, natural language processing, social and economic implications of AI enabled IoT, as well as robotics, sustainability, risk management, seismic data processing, smart grid management, text analysis, security,

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privacy, and ethics.

The 60th birthday of Prof. Luczak is the reason for this book. He will be honoured for his research work during the "GfA-confernece" in March 2009.

This book is the correspondig "Festschrift" for him.

An Interdisciplinary Approach to Modern Network Security

The Human Element of Big Data

Handbook of Research on Disease

Prediction Through Data Analytics and Machine Learning

Technologies and Research Directions

GEOMATICS ENGINEERING

Machine Learning and Data Science