
Power Electronics

Singhal Gupta

Artificial Intelligence and Machine Learning
Handbook of Research on Next Generation Mobile
Communication Systems

Proceedings of First International Conference on
Computing, Communications, and Cyber-Security
(IC4S 2019)

ASIA Major Electronic & Electrical Equipment
Manufacturers Directory

Artificial Intelligence Paradigms for Smart Cyber-
Physical Systems

The Ancient History of India, Vedic Period

Power System Operation and Control

Internet of Things (IoT)

Power Electronics (5th Edition)

Fundamentals of Electric Circuit Theory

Power Electronics and High Voltage in Smart Grid

Integrated Electronics

Smart Electrical Grid System

Energy Research Abstracts

Conference on Water Resources Development--

Flood Control, Irrigation, Waterways, Electric

Power and Its Evacuation

Advanced Ultra Low-Power Semiconductor
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Data Engineering and Communication Technology

Blockchain for 5G-Enabled IoT

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Electromechanics and Robotics "Zavalishin's
Readings"
Recent Advances in Power Electronics and Drives
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Advances in Solar Power Generation and Energy
Harvesting
Lunatic Asylums in Colonial Bombay
Machine Intelligence and Signal Analysis

Artificial Intelligence and Machine Learning

Allied Publishers
Contributed articles presented at the conference.

Handbook of Research on Next Generation Mobile Communication Systems

Springer Nature
This book's objective is to explore the concepts and applications related to Internet of Things with the vision to identify and

address existing challenges. Additionally, the book provides future research directions in this domain, and explores the different applications of IoT and its associated technologies. Studies investigate applications for crowd sensing and sourcing, as well as smart applications to healthcare solutions, agriculture and intelligent disaster management. This book will appeal to

students, practitioners, industry professionals and researchers working in the field of IoT and its integration with other technologies to develop comprehensive solutions to real-life problems
John Wiley & Sons
This book includes selected papers presented at the 3rd International Conference on Data Engineering and Communication Technology

(ICDECT-2K19) which can be researchers, engineers, developers, and practitioners from academia and industry at the International Conference on Recent Developments in Electrical and Electronics Engineering (ICRDEEE 2022). The materials in the book include theory and applications for different areas of Electrical and Electronics Engineering. The topics covered include power systems and

, held at Stanley College of Engineering and Technology for Women, Hyderabad, from 15 to 16 March 2019. It features advanced, multidisciplinary research towards the design of smart computing, information systems, and electronic systems. It also focuses on various innovation paradigms in system knowledge, intelligence, and sustainability

which can be applied to provide viable solutions to diverse problems related to society, the environment, and industry. Proceedings of First International Conference on Computing, Communications, and Cyber-Security (IC4S 2019) Power Electronics (5th Edition) Power Electronics and High Voltage in Smart Grid This book contains cutting-edge research content presented by

protection, energy, electric vehicles, smart grid, semiconductor technologies, electrical machines and drives, control systems with artificial intelligence, etc. The content is useful for researchers, professionals, and academicians in understanding current research trends, findings, and future scope of research in electrical and electronics engineering models.

ASIA Major Electronic & Electrical Equipment Manufacturers Directory CRC Press
The book contains select proceedings of the International Conference on Smart Grid Energy Systems and Control (SGESC 2021). The proceedings is divided into 03 volumes, and this volume focuses on power electronics, machines, systems integrations, and high

voltage engineering. This book is a unique collection of chapters from different areas with a common theme and will be immensely useful to academic researchers and practitioners in the industry.
Artificial Intelligence Paradigms for Smart Cyber-Physical Systems CRC Press
Anyone who has ever shopped for a new smart phone, laptop, or other tech

gadget knows that staying connected is crucial. There is a lot of discussion over which service provider offers the best coverage—enabling devices to work anywhere and at any time—with 4G and LTE becoming a pervasive part of our everyday language. The Handbook of Research on Next Generation Mobile Communication Systems offers solutions for optimal

connection of mobile devices. From satellite signals to cloud technologies, this handbook focuses on the ways communication is being revolutionized, providing a crucial reference source for consumers, researchers, and business professionals who want to be on the frontline of the next big development in wireless technologies. This publication features a wide variety of

research-based articles that discuss the future of topics such as bandwidth, energy-efficient power, device-to-device communication, network security and privacy, predictions for 5G communication systems, spectrum sharing and connectivity, and many other relevant issues that will influence our everyday use of technology. **The Ancient History of India, Vedic Period** Alpha Science

International, Limited Cyber-physical systems (CPS) have emerged as a unifying name for systems where cyber parts (i.e., the computing and communication parts) and physical parts are tightly integrated, both in design and during operation. Such systems use computations and communication deeply embedded in and interacting with human physical processes as

well as augmenting existing and adding new capabilities. As such, CPS is an integration of computation, networking, and physical processes. Embedded computers and networks monitor and control the physical processes, with feedback loops where physical processes affect computations and vice versa. The economic and societal potential of such systems is vastly

greater than what has been realized, and major investments are being made worldwide to develop the technology. Artificial Intelligence Paradigms for Smart Cyber-Physical Systems focuses on the recent advances in Artificial intelligence-based approaches towards affecting secure cyber-physical systems. This book presents investigations on state-of-the-art

research issues, applications, and achievements in the field of computational intelligence paradigms for CPS. Covering topics that include autonomous systems, access control, machine learning, and intrusion detection and prevention systems, this book is ideally designed for engineers, industry professionals, practitioners, scientists, managers, students, academicians,

and researchers seeking current research on artificial intelligence and cyber-physical systems.

Power System Operation and Control

IGI Global
This book traces the historical roots of the problems in India's mental health care system. It accounts for indigenous experiences of the lunatic asylum in the Bombay Presidency (1793-1921). The book

argues that the colonial lunatic asylum failed to assimilate into Indian society and therefore remained a failed colonial-medical enterprise. It begins by assessing the implications of lunatic asylums on indigenous knowledge and healing traditions. It then examines the lunatic asylum as a 'middle-ground', and the European superintendents' 'common-sense' treatment of Indian insanity.

Furthermore, it analyses the soundscapes of Bombay's asylums, and the extent to which public perceptions influenced their use. Lunatic asylums left a legacy of historical trauma for the indigenous community because of their coercive and custodial character. This book aims to disrupt that legacy of trauma and to enable new narratives in mental health treatment in India.

Internet of

Things (IoT)
Springer
The artificial intelligence-based framework, algorithms, and applications presented in this book take the perspective of Society 5.0 – a social order supported by innovation in data, information, and knowledge. It showcases current case studies of Society 5.0 in diverse areas such as healthcare, smart cities, and infrastructure.

Key Features:

Elaborates on the use of big data, cyber-physical systems, robotics, augmented-virtual reality, and cybersecurity as pillars for Society 5.0. Showcases the use of artificial intelligence, architecture, frameworks, and distributed and federated learning structures in Society 5.0. Discusses speech recognition, image classification, robotic process automation,

natural language generation, and decision support automation. Elucidates the application of machine learning, deep learning, fuzzy-based systems, and natural language processing. Includes case studies on the application of Society 5.0 aspects in educational, medical, infrastructure, and smart cities. The book is intended especially for graduate and postgraduate students, and

academic researchers in the fields of computer science and engineering, electrical engineering, and information technology. *Power Electronics (5th Edition)* Springer Nature This book focuses on artificial intelligence (AI) and machine learning (ML) technologies and how they are progressively being incorporated into a wide range of products,

including consumer gadgets, "smart" personal assistants, cutting-edge medical diagnostic systems, and quantum computing systems. This concise reference book offers a broad overview of the most important trends and discusses how these trends and technologies are being created and employed in the applications in which they are being used.

Artificial Intelligence and Machine Learning: An Intelligent Perspective of Emerging Technologies offers a broad package involving the incubation of AI and ML with various emerging technologies such as Internet of Things (IoT), healthcare, smart cities, robotics, and more. The book discusses various data collection and data transformation techniques and also maps the legal and ethical issues of data-driven e-healthcare systems while covering possible ways to resolve them. The book explores different techniques on how AI can be used to create better virtual reality experiences and deals with the techniques and possible ways to merge the power of AI and IoT to create smart home appliances. With contributions from experts in the field, this reference book is useful to healthcare professionals, researchers, and students of industrial engineering, systems engineering, biomedical, computer science, electronics, and communications engineering.

Fundamentals of Electric Circuit Theory
 IGI Global
 Aims of the Book: The foremost and primary aim of the book is to meet the requirements of students pursuing following courses of study: 1. Diplo

<p>ma in Electronics and Communicatio n Engineering(E CE)-3-year course offered by various Indian and foreign polytechnics and technical institutes like city and guilds of London Institute(CGLI) .2.B.E.(Elect.& Comm.)-4- year course offered by various Engineering Colleges.effort s have beenmade to cover the papers:Electro nics-I & II and Pulse and Digital Circuits.3.B.Sc</p>	<p>.(Elect.)-3- Year vocationalised course recently introduced by Approach. <i>Power Electronics and High Voltage in Smart Grid S.</i> Chand Publishing The book covers the most recent developments in machine learning, signal analysis, and their applications. It covers the topics of machine intelligence such as: deep learning, soft computing approaches,</p>	<p>support vector machines (SVMs), least square SVMs (LSSVMs) and their variants; and covers the topics of signal analysis such as: biomedical signals including electroenceph alogram (EEG), magnetoence phalography (MEG), electrocardiog ram (ECG) and electromyogra m (EMG) as well as other signals such as speech signals, communicatio n signals, vibration signals, image, and</p>
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video. Further, it analyzes normal and abnormal categories of real-world signals, for example normal and epileptic EEG signals using numerous classification techniques. The book is envisioned for researchers and graduate students in Computer Science and Engineering, Electrical Engineering, Applied Mathematics, and Biomedical Signal Processing. Integrated Electronics

Springer Nature This Unique Study Attempts To Build A History Of Pre-Buddhistic India On The Basis Of The Vedas And The Allied Texts. Scattered In The Vedic Texts Are Allusions To A Large Number Of Places, Personalities And Incidents. The Authors Have Given Them A Historical Shape And Significance In A Most Systematic Manner. The Outcome Is A Fascinating

Account Of India S Remote Past. It Has, However, Been Made Possible As A Result Of The Valuable Insights Gained Over A Long Period Of Deep, Intensive And Profound Study Of These Most Ancient Texts. The Readers Of Indian History Will Find The Treatise Very Informative And Refreshing. **Smart Electrical Grid System** IGI Global "Power Electronics is

intended as an introduction to the basic theory and practice of modern power electronics and in particular with the application of power electronics theory for d.c and a.c motor control." "This book not only contains teaching material on physical principles of electronic devices, but also the circuit applications of controlled rectifiers, inverters, d.c. choppers, cycloconverter

s, switch-mode power supply along with practical aspects relating to application of power electronics to d.c motor and a.c motor speed control." "This text is suitable for UG and postgraduate programmes in power electronics and drives in the disciplines of Electrical Engineering, Electronics and Communication Engineering and Instrumentation and Control Engineering."-BOOK

JACKET.
Energy Research Abstracts
 Atlantic Publishers & Dist
 This book presents the subject matter in a clear and concise manner with numerous diagrams and examples
Conference on Water Resources Development--Flood Control, Irrigation, Waterways, Electric Power and Its Evacuation
 Springer
 Power Electronics (5th

Edition)Power
Electronics
and High
Voltage in
Smart
GridSpringer
Nature
Advanced
Ultra Low-
Power
Semiconducto
r Devices
Allied
Publishers
This book
addresses one
of the most
overlooked
practical,
methodologica
l, and moral
questions in
the journey to
secure and
handle the
massive
amount of
data being
generated
from smart
devices
interactions:

the
integration of
Blockchain
with 5G-
enabled IoT.
After an
overview, this
book
discusses
open issues
and
challenges,
which may
hinder the
growth of
Blockchain
technology.
Then, this
book presents
a variety of
perspectives
on the most
pressing
questions in
the field, such
as: how IoT
can connect
billions of
objects
together; how
the access
control

mechanisms
in 5G-enabled
industrial
environment
works; how to
address the
real-time and
quality-of-
service
requirements
for industrial
applications;
and how to
ensure
scalability and
computing
efficiency.
Also, it
includes a
detailed
discussions on
the
complexity of
adoption of
Blockchain for
5G-Enabled
IoT and
presents
comparative
case studies
with respect
to various

performance evaluation metrics such as scalability, data management, standardization, interoperability and regulations, accessibility, human-factors engineering and interfaces, reliability, heterogeneity, and QoS requirements. This book acts as a professional guide for the practitioners in information security and related topics.

Data Engineering and Communication

n Technology
 Pearson Education India
 ADVANCED ULTRA LOW-POWER SEMICONDUCTOR DEVICES
 Written and edited by a team of experts in the field, this important new volume broadly covers the design and applications of metal oxide semiconductor field effect transistors. This outstanding new volume offers a comprehensive overview of cutting-edge semiconductor

components tailored for ultra-low power applications. These components, pivotal to the foundation of electronic devices, play a central role in shaping the landscape of electronics. With a focus on emerging low-power electronic devices and their application across domains like wireless communication, biosensing, and circuits, this book presents an invaluable resource for

understanding this dynamic field. Bringing together experts and researchers from various facets of the VLSI domain, the book addresses the challenges posed by advanced low-power devices. This collaborative effort aims to propel engineering innovations and refine the practical implementation of these technologies. Specific chapters delve into intricate topics such as Tunnel FET, negative

capacitance FET device circuits, and advanced FETs tailored for diverse circuit applications. Beyond device-centric discussions, the book delves into the design intricacies of low-power memory systems, the fascinating realm of neuromorphic computing, and the pivotal issue of thermal reliability. Authors provide a robust foundation in device physics and circuitry

while also exploring novel materials and architectures like transistors built on pioneering channel/dielectric materials. This exploration is driven by the need to achieve both minimal power consumption and ultra-fast switching speeds, meeting the relentless demands of the semiconductor industry. The book's scope encompasses concepts like MOSFET, FinFET, GAA MOSFET, the

5-nm and 7-nm technology nodes, NCFET, ferroelectric materials, subthreshold swing, high-k materials, as well as advanced and emerging materials pivotal for the semiconductor industry's future.

Blockchain for 5G-Enabled IoT

IGI Global Big data generates around us constantly from daily business, custom use, engineering, and science activities. Sensory data

is collected from the internet of things (IoT) and cyber-physical systems (CPS). Merely storing such a massive amount of data is meaningless, as the key point is to identify, locate, and extract valuable knowledge from big data to forecast and support services. Such extracted valuable knowledge is usually referred to as smart data. It is vital to providing

suitable decisions in business, science, and engineering applications. Deep Learning Applications for Cyber-Physical Systems provides researchers a platform to present state-of-the-art innovations, research, and designs while implementing methodological and algorithmic solutions to data processing problems and designing and analyzing evolving trends in health

informatics and computer-aided diagnosis in deep learning techniques in context with cyber physical systems. Covering topics such as smart medical systems, intrusion detection systems, and predictive analytics, this text is essential for computer scientists, engineers, practitioners, researchers, students, and academicians, especially those interested in the areas of internet of

things, machine learning, deep learning, and cyber-physical systems. Fundamentals of Microprocessors & its Application Springer Nature This book presents select proceedings of the Electric Power and Renewable Energy Conference 2020 (EPREC-2020). It provides rigorous discussions, case studies, and recent developments in the emerging

areas of power electronics, especially, power inverter and converter, electrical drives, regulated power supplies, operation of FACTS & HVDC, etc. The readers would be benefited in enhancing their knowledge and skills in these domain areas. The book will be a valuable reference for beginners, researchers, and professionals interested in advancements

in power electronics and drives.

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