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Communication
Network By Ajit
Pal
Ebook

Network By
Ajit Pal
Ebook

*The book constitutes
selected high quality
papers presented in
International
Conference on*

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*Computing, Power
and Communication
Technologies 2018*

(GUCON 2018)

organised by

Galgotias University,

India, in September

2018. It discusses

issues in electrical,

computer and

electronics

engineering and

technologies. The

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selected papers are organised into three sections - cloud computing and computer networks; data mining and big data analysis; and bioinformatics and machine learning. In-depth discussions on various issues under these topics provides an interesting

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*Communication
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***compilation for
researchers,
engineers, and
students.***

***This volume of
Advances in
Intelligent Systems
and Computing
contains accepted
papers presented at
ICGEC 2014, the 8th
International
Conference on***

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*Genetic and
Evolutionary
Computing. The
conference this year
was technically co-
sponsored by
Nanchang Institute of
Technology in China,
Kaohsiung University
of Applied Science in
Taiwan, and VSB-
Technical University
of Ostrava. ICGEC*

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*2014 is held from
18-20 October 2014 in
Nanchang, China.*

*Nanchang is one of is
the capital of Jiangxi
Province in
southeastern China,
located in the north-
central portion of the
province. As it is
bounded on the west
by the Jiuling
Mountains, and on*

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the east by Poyang Lake, it is famous for its scenery, rich history and cultural sites. Because of its central location relative to the Yangtze and Pearl River Delta regions, it is a major railroad hub in Southern China. The conference is intended as an international

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*forum for the
researchers and
professionals in all
areas of genetic and
evolutionary
computing.*

*This book is a
collection of high-
quality peer-reviewed
research papers
presented in the Third
International
Conference on*

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*Computing
Informatics and
Networks (ICCN
2020) organized by
the Department of
Computer Science and
Engineering (CSE),
Bhagwan Parshuram
Institute of
Technology (BPIT),
Delhi, India, during
29–30 July 2020. The
book discusses a wide*

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*variety of industrial,
engineering and
scientific applications
of the emerging
techniques.*

*Researchers from
academic and
industry present their
original work and
exchange ideas,
information,
techniques and
applications in the*

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*Communication
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*field of artificial
intelligence, expert
systems, software
engineering,
networking, machine
learning, natural
language processing
and high-
performance
computing.*

*[?] This is the 2nd
Edition of my
successful book "5G*

Simply In Depth"
with the global
acceptance. [?] The

*fifth generation of
wireless access
technology (5G) is
facing a daunting
task of meeting
constant demands for
higher data rates and
system capacity, as
well as wide range of
applications and*

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*users' quality of
experience (QoE)
requirements.*

*Although not
standardized yet, 5G
technology is expected
to offer significantly
higher throughput
than long-term
evolution (LTE), have
a latency in the low
milliseconds and be
able to accommodate*

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and support the anticipated explosion in the Internet of Things (IoT) devices. New device types (e.g. probes, meters, sensors, actuators) will significantly contribute to traffic increase and new market sectors will bring new priorities (e.g. critical

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infrastructures). [?]

This book is a comprehensive overview of the present state of 5G. Explaining everything from the most likely use cases, spectrum aspects, and a wide range of technology options to potential 5G system architectures, it is an

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*indispensable
reference for
academics and
professionals involved
in wireless and mobile
communications. [?]*

*Global research
efforts are
summarised, and key
component
technologies including
D2D, mm-wave
communications,*

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Network By Ajit
Pal Ebook*

*massive MIMO,
coordinated multi-
point, wireless
network coding,
interference
management and
spectrum issues are
described and
explained. The
significance of 5G
for the automotive,
manufacturing,
energy, retail and*

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healthcare sectors is addressed, as is the relationship between IoT, machine type communications, and cyber-physical systems. [?] This book equips you with a solid insight into the evolution, architecture, network stack protocol, application, and of

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*course the challenges
and future scope and
prospect of 5G.*

Featured With: [?] 5G

Architecture [?] 5G

Design [?] 5G

Implementation [?]

Machine Type

Communication [?]

Small Cells for 5G

Mobile Network [?]

Low-Power

Networking [?] 5G

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Radio Access

Technologies [?]

Security in 5G

Communication [?]

Applications and Use

Cases -----

Other Valuable

Titles..... -----

[?] Edge Computing [?]

Fog Computing [?]

Internet of Things [?]

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***IOT Programming [?]
INTERNET OF
THINGS &
WIRELESS SENSOR
NETWORK [?] Formal
Language And
Automata Theory
Proceedings of the
Second International
Scientific Conference
“Intelligent
Information
Technologies for***

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Industry” (IITI’17)

A Social Network

Approach

*Analytics, Sharing
and Control*

*Apply machine
learning techniques to
VMware*

*virtualization and
networking*

Cyber Security

International

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*Conference on
Intelligent and Smart
Computing in Data
Analytics*

This volume presents the proceedings of the First Euro-China Conference on Intelligent Data Analysis and Applications (ECC 2014), which was hosted by Shenzhen

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Graduate School of
Harbin Institute of
Technology and was
held in Shenzhen City
on June 13-15, 2014.
ECC 2014 was
technically co-
sponsored by Shenzhen
Municipal People's
Government, IEEE
Signal Processing
Society, Machine
Intelligence Research
Labs, VSB-Technical

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University of Ostrava
(Czech Republic),
National Kaohsiung
University of Applied
Sciences (Taiwan), and
Secure E-commerce
Transactions (Shenzhen)
Engineering Laboratory
of Shenzhen Institute of
Standards and
Technology.

This book presents
select proceedings of the
International

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Conference on
Futuristic
Communication and
Network Technologies
(CFCNT 2020)
conducted at Vellore
Institute of Technology,
Chennai. It covers
various domains in
communication
engineering and
networking
technologies. This
volume comprises of

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recent research in areas
like optical
communication, optical
networks, optics and
optical computing,
emerging trends in
photonics, MEMS and
sensors, active and
passive RF components
and devices, antenna
systems and
applications, RF devices
and antennas for
microwave emerging

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technologies, wireless
communication for
future networks, signal
and image processing,
machine learning/AI for
networks, internet of
intelligent things,
network security and
blockchain
technologies. This book
will be useful for
researchers,
professionals, and
engineers working in the

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Communication
Network By Aijit
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core areas of electronics
and communication.

The book features
research papers
presented at the
International
Conference on
Emerging Technologies
in Data Mining and
Information Security
(IEMIS 2018) held at
the University of
Engineering &
Management, Kolkata,

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India, on February
23–25, 2018. It

comprises high-quality research by academics and industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers, case studies related to all the areas of data mining, machine learning, IoT and information

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Communication
security.

This volume is the third part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 70 revised full papers

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presented in this volume
were carefully reviewed
and selected from a
large number of
submissions. The papers
are organized in topical
sections on security,
trust and privacy; sensor
networks; signal and
image processing; soft
computing techniques;
system software;
vehicular
communications

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Communication
networks.

Proceedings of CSI
2015 Ebook

Computational
Intelligence in Wireless
Sensor Networks

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COMMUNICATION
AND COMPUTER
NETWORKS

Intelligent Data
Analysis and
Applications

Proceeding of the First

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Euro-China Conference
on Intelligent Data

Analysis and

Applications, June

13-15, 2014, Shenzhen,
China

Computational Social
Networks

Proceedings of the

Second Euro-China

Conference on

Intelligent Data

Analysis and

Applications, ECC 2015

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*Intended primarily
as a textbook for
the students of
computer science
and engineering,
electronics and
communication
engineering,
master of
computer
applications
(MCA), and those
offering IT*

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courses, the book provides a comprehensive coverage of the subject. Basic elements of communication such as data, signal and channel alongwith their characteristics such as bandwidth, bit

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*internal and bit
rate have been
explained.*

*Contents related to
guided and
unguided
transmission
media, Bluetooth
wireless
technology,
developed for
Personal Area
Network (PAN) and*

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issues related to routing covering popular routing algorithms namely RIP, OSPF and BGP, have been introduced in the book. Various aspects of data link control alongwith their application in HDLC network and

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techniques such as encoding, multiplexing and encryption/decryption are presented in detail.

Characteristics and implementation of PSTN, SONET, ATM, LAN, PACKET RADIO network, Cellular

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***telephone network
and Satellite***

***network have also
been explained.***

***Different aspects
of IEEE 802.11***

WLAN and

***congestion control
protocols have***

also been

***discussed in the
book. Key***

Features • Each

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chapter is divided into section and subsection to provide flexibility in curriculum design. • The text contains numerous solved examples, and illustrations to bring clarity to the subject and enhance its

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*understanding. •
Review questions
given at the end of
each chapter, are
meant to enable
the teacher to test
student's grasping
of the subject.*

*This volume
contains accepted
papers presented
at AECIA2014, the
First International*

***Afro-European
Conference for
Industrial***

***Advancement. The
aim of AECIA was
to bring together
the foremost
experts as well as
excellent young
researchers from
Africa, Europe,
and the rest of the
world to***

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disseminate latest results from various fields of engineering, information, and communication technologies. The first edition of AECIA was organized jointly by Addis Ababa Institute of Technology, Addis

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***Ababa University,
and VSB -
Technical
University of
Ostrava, Czech
Republic and took
place in Ethiopia's
capital, Addis
Ababa.***

***This book is the
first of three
volumes that
illustrate the***

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concept of social networks from a computational point of view. The book contains contributions from a international selection of world-class experts, with a specific focus on practical tools, applications, and open avenues for

further research (the other two volumes review issues of Security and Privacy, and Mining and Visualization in CSNs). Topics and features: presents the latest advances in CSNs, and illustrates how organizations can

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***gain a competitive
advantage by
applying these
ideas in real-world
scenarios;
discusses the
design and use of
a wide range of
computational
tools and software
for social network
analysis;
describes***

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*simulations of
social networks,
the representation
and analysis of
social networks,
and the use of
semantic networks
in knowledge
discovery and
visualization;
provides
experience
reports, survey*

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articles, and intelligence techniques and theories relating to specific problems in network technology.

Social networking has increased drastically in recent years, resulting in an increased amount

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*of data being
created daily.*

*Furthermore,
diversity of issues
and complexity of
the social
networks pose a
challenge in social
network mining.*

*Traditional
algorithm software
cannot deal with
such complex and*

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vast amounts of data, necessitating the development of novel analytic approaches and tools. This reference work deals with social network aspects of big data analytics. It covers theory, practices and challenges in

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social networking.

***The book spans
numerous***

***disciplines like
neural networking,
deep learning,
artificial
intelligence,
visualization, e-
learning in higher
education, e-
healthcare,
security and***

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***intrusion
detection.***

ISCSA 2020

***Official Gazette of
the United States
Patent and
Trademark Office
19th International
Conference on
Hybrid Intelligent
Systems (HIS
2019) held in
Bhopal, India,***

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***December 10-12,
2019***

***Data and
Communication
Networks
Computational
Intelligence in Data
Mining
Volume 1
Genetic and
Evolutionary
Computing
This book***

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discusses applications of computational intelligence in sensor networks. Consisting of twenty chapters, it addresses topics ranging from small-scale data processing to big data processing realized through sensor nodes with

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*the help of
computational
approaches.*

*Advances in sensor
technology and
computer networks
have enabled
sensor networks to
evolve from small
systems of large
sensors to large
nets of miniature
sensors, from
wired*

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**communications to
wireless**

**communications,
and from static to
dynamic network
topology. In spite
of these
technological
advances, sensor
networks still face
the challenges of
communicating
and processing
large amounts of**

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imprecise and partial data in resource-constrained environments. Further, optimal deployment of sensors in an environment is also seen as an intractable problem. On the other hand, computational intelligence

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**techniques like
neural networks,
evolutionary
computation,
swarm
intelligence, and
fuzzy systems are
gaining popularity
in solving
intractable
problems in
various disciplines
including sensor
networks. The**

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**contributions
combine the best
attributes of these
two distinct fields,
offering readers a
comprehensive
overview of the
emerging research
areas and
presenting first-
hand experience of
a variety of
computational
intelligence**

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***approaches in
sensor networks.***

***The International
Conference on
“Computational
Intelligence in
Data Mining”
(ICCIDM), after
three successful
versions, has
reached to its
fourth version with
a lot of aspiration.
The best selected***

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**conference papers
are reviewed and
compiled to form
this volume. The
proceedings
discusses the
latest solutions,
scientific results
and methods in
solving intriguing
problems in the
fields of data
mining,
computational**

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***intelligence, big
data analytics, and
soft computing.***

***The volume
presents a sneak
preview into the
strengths and
weakness of
trending
applications and
research findings
in the field of
computational
intelligence and***

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*data mining along
with related field.*

*This book
highlights recent
research on bio-
inspired computing
and its various
innovative
applications in
information and
communication
technologies. It
presents 51 high-
quality papers*

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**from the 11th
International
Conference on
Innovations in Bio-
Inspired
Computing and
Applications (IBICA
2020) and 10th
World Congress on
Information and
Communication
Technologies
(WICT 2020), which
was held online**

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**during December
16-18, 2019. As a
premier
conference,
IBICA-WICT brings
together
researchers,
engineers and
practitioners
whose work
involves bio-
inspired
computing,
computational**

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intelligence and their applications in information security, real-world contexts, etc. Including contributions by authors from 25 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the

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**fields of Computer
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publication,
focused conference
series and custom
research form the
hub of the world's
largest global IT
media network.**

**Advances in
Computing and
Communications,
Part II**

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**Proceedings of
GUCON 2018
Bulletin of
Electrical
Engineering and
Informatics
Intelligent
Automation with
VMware
Proceedings of 3rd
International
Conference on
Computing
Informatics and**

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Networks

Vol 2, No 2 June

2013 Ebook

**Select Proceedings
of VICFCNT 2020**

This book comprises select proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-

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the-art research, surveys, and succinct reviews. The volume covers diverse topics ranging from information security to cryptography and from encryption to intrusion detection. This book focuses on Cyber Security. It aims at informing the readers about the technology in

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Communication
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The book uncovers
the various nuances
of information
security, cyber
security and its
various dimensions.
This book also covers
latest security
trends, ways to
combat cyber threats
including the
detection and

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mitigation of security
threats and risks.

The contents of this
book will prove
useful to
professionals and
researchers alike.

Use self-driven data
centers to reduce
management
complexity by
deploying
Infrastructure as
Code to gain value

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from investments.

Key Features Add

smart capabilities in

VMware Workspace

ONE to deliver

customer insights

and improve overall

security Optimize

your HPC and big

data infrastructure

with the help of

machine

learning Automate

your VMware data

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center operations
with machine
learningBook

Description This book presents an introductory perspective on how machine learning plays an important role in a VMware environment. It offers a basic understanding of how to leverage

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machine learning primitives, along with a deeper look into integration with the VMware tools used for automation today. This book begins by highlighting how VMware addresses business issues related to its workforce, customers, and

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partners with
emerging
technologies such as
machine learning to
create new,
intelligence-driven,
end user
experiences. You will
learn how to apply
machine learning
techniques
incorporated in
VMware solutions for
data center

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operations. You will go through management toolsets with a focus on machine learning techniques. At the end of the book, you will learn how the new vSphere Scale-Out edition can be used to ensure that HPC, big data performance, and other requirements

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can be met (either through development or by fine-tuning guidelines) with mainstream products. What you will learnOrchestrate on-demand deployments based on defined policiesAutomate away common problems and make life easier by

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reducing errors

Deliver services to

end users rather

than to virtual

machinesReduce

rework in a multi-

layered scalable

manner in any

cloudExplore the

centralized life cycle

management of

hybrid cloudsUse

common code so you

can run it across any

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cloud Who this book
is for This book is
intended for those
planning, designing,
and implementing
the
virtualization/cloud
components of the
Software-Defined
Data Center
foundational
infrastructure. It
helps users to put
intelligence in their

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automation tasks to get self driving data center. It is assumed that the reader has knowledge of, and some familiarity with, virtualization concepts and related topics, including storage, security, and networking.

Computer Network Simulations Using NS2 provides a solid

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foundation of
computer networking
knowledge and skills,
covering everything
from simple
operating system
commands to the
analysis of complex
network performance
metrics. The book
begins with a
discussion of the
evolution of data
communication

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techniques and the fundamental issues associated with performance evaluation. After presenting a preliminary overview of simulation and other performance evaluation techniques, the authors: Describe a number of computer network protocols

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and TCP/IP and OSI models, highlighting the networking devices used Explain a socket and its use in network programming, fostering the development of network applications using C and socket API Introduce the NS2 network simulator, exhibiting

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its internal
architecture,
constituent software
packages, and
installation in
different operating
systems Delve into
simulation using
NS2, elaborating on
the use of Tcl and
OTcl scripts as well
as AWK scripting and
plotting with Gnuplot
Show how to

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simulate wired and wireless network protocols step by step, layer by layer
Explore the idea of simulating very large networks, identifying the challenges associated with measuring and graphing the various network parameters
Include nearly 90 example programs,

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scripts, and outputs, along with several exercises requiring application of the theory and programming

Computer Network Simulations Using NS2 emphasizes the implementation and simulation of real-world computer network protocols, affording readers

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with valuable
opportunities for
hands-on practice
while instilling a
deeper
understanding of
how computer
network protocols
work.

This book highlights
the recent research
on hybrid intelligent
systems and their
various practical

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applications. It presents 34 selected papers from the 18th International Conference on Hybrid Intelligent Systems (HIS 2019) and 9 papers from the 15th International Conference on Information Assurance and Security (IAS 2019),

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which was held at
VIT Bhopal
University, India,
from December 10 to
12, 2019. A premier
conference in the
field of artificial
intelligence, HIS -
IAS 2019 brought
together researchers,
engineers and
practitioners whose
work involves
intelligent systems,

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network security and their applications in industry. Including contributions by authors from 20 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of Computer Science and Engineering.

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Computer Network
Simulation Using
NS2

Intelligent Data
analysis and its
Applications, Volume
II

Computational
Intelligence in
Sensor Networks
Recent Advances and
Future Challenges
Proceedings of the
International

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Conference on
Information Systems
Design and
Intelligent
Applications 2012
(India 2012) held in
Visakhapatnam,
India, January 2012
Communications and
Discoveries from
Multidisciplinary
Data
5G Technologies
DATA

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AND COMPUTER
NETWORKS*

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Learning Pvt. Ltd.*

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best Study Materials
for CS-09 "*

Networking" MCA

III Semester

Students. In this

book, question

papers of the

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*previous year exams
as well as their
solutions have been
given. In this book,
you can also identify
the problems and
their solutions. All
things are as per the
Syllabus. No other
Study Material can
give you more
perfect idea about*

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*the examination, the
problems one faces
in the exam,*

*questions pattern
etc., than this one.*

*There are three
question paper sets
in this book which
are also important
and according to the
examination*

pattern. Every effort

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*has been made to
make the book
simple and error-
free. I welcome any
constructive
criticism of the book
and will be grateful
for any honest
appraisal from the
readers.*

*The key parameter
that needs to be*

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*considered when
planning the
management of
resources in
futuristic wireless
networks is a
balanced approach
to resource
distribution. A
balanced approach
is necessary to
provide an unbiased*

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Communication

working

Network By Ajit

environment for the

distribution, sharing,

allocation, and

supply of resources

among the devices of

the wireless network.

Equal resource

distribution also

maintains balance

and stability between

the operations of

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*Communication
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*communication
systems and thus
improves the*

*performance of
wireless networks.*

*Managing Resources
for Futuristic*

*Wireless Networks is
a pivotal reference
source that presents
research related to
the control and*

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*management of key
parameters of
bandwidth, spectrum
sensing, channel
selection, resource
sharing, and task
scheduling, which is
necessary to ensure
the efficient
operation of wireless
networks. Featuring
topics that include*

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*Communication
vehicular ad-hoc
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networks, resource
management, and
the internet of
things, this
publication is ideal
for professionals and
researchers working
in the field of
networking,
information and
knowledge*

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management, and
Network By Ajit
communication
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*sciences. Moreover,
the book will provide
insights and support
executives
concerned with the
management of
expertise,
knowledge,
information, and
organizational*

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*development in
different types of
work communities
and environments.*

*This book gathers
high-quality
research papers
presented at the
International
Conference on
Computing in
Engineering and*

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*Technology (ICCET
2020) [formerly
ICCASP], a flagship
event in the area of
engineering and
emerging next-
generation
technologies jointly
organized by the Dr.
Babasaheb
Ambedkar*

Technological

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*University and
MGM's College of
Engineering in
Nanded, India, on
9-11 January 2020.
Focusing on next-
generation
information
processing systems,
this second volume
of the proceedings
includes papers on*

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*cloud computing and
information systems,
artificial intelligence
and the Internet of
Things, hardware
design and
communication, and
front-end design.*

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Conference on the
Management and
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sensors, data
analysis and
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smart applications in networks. Smart sensor networks play an important role in the establishment of network devices which can easily interact with physical world through plethora of variety of sensors for collecting and

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monitoring the
surrounding
context and
allowing
environment
information. Apart
from military
applications, smart
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are used in many
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volume of demands
in related

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sensor networks
and their usage in
real-life

applications like
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social sensing
networks, etc.

Chapters illustrate
technological
advances and
trends, examine
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opportunities,
highlight best
practices and
standards, and
discuss
applications and
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chapters also
provide holistic
and multiple
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impact of smart
sensor networks

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and the role of
data analytics,
data sharing, and
its control along
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four-volume set
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refereed

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2012 in

Vishakhapatnam,
India. This

conference was
organized by
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contributed by
authors from six
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research papers
mainly focused on
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applications and
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design issues. The
papers cover a
wide range of
topics of computer

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discipline ranging
from image
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like swarm intelligence, artificial intelligence, evolutionary algorithms, bio-inspired algorithms have been applied in different papers for solving various challenging IT related problems. This book

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The wide gap between
the existing security
solutions and the actual

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practical deployment in smart manufacturing, smart home, and remote environments (with respect to wireless robotics) is one of the major reasons why we require novel strategies, mechanisms, architectures, and frameworks.

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level of vulnerabilities and attack vectors in Wireless Sensor Network (WSN) and Wireless Robotics. This book includes an in-depth explanation of a secure and dependable Wireless Robotics (WR) architecture, to ensure confidentiality, authenticity, and availability. Features Blockchain technology

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for securing data at
end/server side

Emerging
technologies/networking
, like Cloud, Edge, Fog,
etc., for communicating
and storing data
(securely). Various open
issues, challenges faced
in this era towards
wireless robotics,
including several future
research directions for
the future. Several real

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world's case studies are included Chapters on ethical concerns and privacy laws, i.e., laws for service providers Security and privacy challenges in wireless sensor networks and wireless robotics The book is especially useful for academic researchers, undergraduate students, postgraduate students,

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and industry
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professionals.

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(WSTST '05), May
25-27, 2005, Muroran,
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*This book
emphasizes the
increasingly
important role that
Computational
Intelligence (CI)
methods are playing
in solving a myriad
of entangled
Wireless Sensor*

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*Networks (WSN)
related problems.*

*The book serves as
a guide for
surveying several
state-of-the-art
WSN scenarios in
which CI
approaches have
been employed. The
reader finds in this
book how CI has
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*a wide range of
challenging
problems, ranging
from balancing the
cost and accuracy
of heterogeneous
sensor deployments
to recovering from
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CI-based security schemes. Network managers, industry experts, academicians and practitioners alike (mostly in computer engineering, computer science or applied mathematics) benefit from the spectrum of

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*highlights key
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achievements and
innovations in all
areas of automation,
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2017 brought*

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international
researchers and
industrial
practitioners
interested in the
development and
implementation of
modern
technologies for
automation,
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transport and power
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addition to
advancing both
fundamental
research and
innovative
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conference is
intended to
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*dissemination
platform and an
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researchers in these
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*This volume of
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Applications. The
aim of ECC is to
provide an
internationally
respected forum for
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analysis, computational intelligence, signal processing, and all associated applications of AIs. The second edition of ECC was organized jointly by VSB - Technical University of Ostrava, Czech Republic, and Fujian

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*University of
Technology,
Fuzhou, China. The
conference,
organized under the
patronage of Mr.
Miroslav Novak,
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Moravian-Silesian
Region, took place
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early July 2015 in
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*computing; mobile
computing; multi
agent systems;
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parallel and
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algorithms; security,
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