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This book presents the outcomes of the First International Conference on Communication, Cloud, and Big Data (CCB) held on December 18-19, 2020, at Sikkim Manipal Institute of Technology, Majitar, Sikkim,

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India. This book contains research papers and articles in the latest topics related to the fields like communication networks, cloud computing, big data analytics, and on various computing techniques. Research papers addressing security issues in above-mentioned areas are also included in the book. The research papers and articles discuss latest issues in the above-mentioned topics. The book is very much helpful and useful for the researchers, engineers, practitioners, research students, and interested readers.

This book is an anthology of present research trends in

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Computer-mediated  
Communications (CMC) from the  
point of view of different  
application scenarios. Four  
different scenarios are  
considered: telecommunication  
networks, smart health,  
education, and human-computer  
interaction. The possibilities of  
interaction introduced by CMC  
provide a powerful environment  
for collaborative human-to-  
human, computer-mediated  
interaction across the globe.  
Software Defined Networks: A  
Comprehensive Approach,  
Second Edition provides in-depth  
coverage of the technologies  
collectively known as Software

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Defined Networking (SDN). The book shows how to explain to business decision-makers the benefits and risks in shifting parts of a network to the SDN model, when to integrate SDN technologies in a network, and how to develop or acquire SDN applications. In addition, the book emphasizes the parts of the technology that encourage opening up the network, providing treatment for alternative approaches to SDN that expand the definition of SDN as networking vendors adopt traits of SDN to their existing solutions. Since the first edition was published, the SDN market has

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matured, and is being gradually integrated and morphed into something more compatible with mainstream networking vendors. This book reflects these changes, with coverage of the OpenDaylight controller and its support for multiple southbound protocols, the Inclusion of NETCONF in discussions on controllers and devices, expanded coverage of NFV, and updated coverage of the latest approved version (1.5.1) of the OpenFlow specification. Contains expanded coverage of controllers Includes a new chapter on NETCONF and SDN Presents expanded coverage of SDN in

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optical networks Provides support materials for use in computer networking courses

This book presents original contributions to the theories and practices of emerging Internet, data, and Web technologies and their applicability in businesses, engineering, and academia. Internet has become the most proliferative platform for emerging large-scale computing paradigms. Among these, data and Web technologies are two most prominent paradigms, in a variety of forms such as Data Centers, Cloud Computing, Mobile Cloud, Mobile Web Services, and so on. These technologies altogether

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create a digital ecosystem whose corner stone is the data cycle, from capturing to processing, analysis, and visualization. The investigation of various research and development issues in this digital ecosystem is boosted by the ever-increasing needs of real-life applications, which are based on storing and processing large amounts of data. As a key feature, it addresses advances in the life cycle exploitation of data generated from the digital ecosystem data technologies that create value for the knowledge and businesses toward a collective intelligence approach. Researchers, software

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developers, practitioners, and students interested in the field of data and Web technologies find this book useful and a reference for their activity.

Today's wireless services have come a long way since the roll out of the conventional voice-centric cellular systems. The demand for wireless access in voice and high rate data multi-media applications has been increasing. New generation wireless communication systems are aimed at accommodating this demand through better resource management and improved transmission technologies. This book discusses the cognitive



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radio, software defined radio, and  
adaptive radio concepts from  
several perspectives.

Resource Allocation in Next-  
Generation Broadband Wireless  
Access Networks

4th International Conference on  
Geo-Informatics in Resource  
Management and Sustainable  
Ecosystem, GRMSE 2016, Hong  
Kong, China, November 18-20,  
2016, Revised Selected Papers,  
Part II

An Authoritative Review of  
Network Programmability  
Technologies

Proceedings of ICCVBIC 2021  
The 9th International Conference  
on Emerging Internet, Data &

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Web Technologies (EIDWT-2021)  
Characterizing the GlusterFS File  
System for Software Defined  
Network Research

The 13th International  
Conference on Intelligent  
Networking and Collaborative  
Systems (INCoS-2021)

This book discusses the  
impact of information and  
communication technologies  
(ICTs) on organizations and  
on society as a whole.

Specifically, it examines  
how such technologies  
improve our life and work,  
making them more inclusive  
through smart enterprises.  
The book focuses on how  
actors understand Industry

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4.0 as well as the potential of ICTs to support organizational and societal activities, and how they adopt and adapt these technologies to achieve their goals. Gathering papers from various areas of organizational strategy, such as new business models, competitive strategies and knowledge management, the book covers a number of topics, including how innovative technologies improve the life of the individuals, organizations, and societies; how social media can drive fundamental business changes, as their innovative nature allows for interactive communication

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between customers and businesses; and how developing countries can use these technologies in an innovative way. It also explores the impact of organizations on society through sustainable development and social responsibility, and how ICTs use social media networks in the process of value co-creation, addressing these issues from both private and public sector perspectives and on national and international levels, mainly in the context of technology innovations.

This book covers the theory, design and applications of computer networks,

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distributed computing and  
information systems.

Networks of today are going  
through a rapid evolution,  
and there are many emerging  
areas of information  
networking and their  
applications. Heterogeneous  
networking supported by  
recent technological  
advances in low-power  
wireless communications  
along with silicon  
integration of various  
functionalities such as  
sensing, communications,  
intelligence and actuations  
is emerging as a critically  
important disruptive  
computer class based on a  
new platform, networking  
structure and interface that

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enable novel, low-cost and high-volume applications. Several of such applications have been difficult to realize because of many interconnections problems. To fulfill their large range of applications, different kinds of networks need to collaborate, and wired and next-generation wireless systems should be integrated in order to develop high-performance computing solutions to problems arising from the complexities of these networks. The aim of the book "Advanced Information Networking and Applications" is to provide latest research findings,

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innovative research results,  
methods and development  
techniques from both  
theoretical and practical  
perspectives related to the  
emerging areas of  
information networking and  
applications.

With the growing popularity  
of wireless networks in  
recent years, the need to  
increase network capacity  
and efficiency has become  
more prominent in society.  
This has led to the  
development and  
implementation of  
heterogeneous networks.  
Resource Allocation in Next-  
Generation Broadband  
Wireless Access Networks is  
a comprehensive reference

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source for the latest  
scholarly research on  
upcoming 5G technologies for  
next generation mobile  
networks, examining the  
various features, solutions,  
and challenges associated  
with such advances.

Highlighting relevant  
coverage across topics such  
as energy efficiency, user  
support, and adaptive  
multimedia services, this  
book is ideally designed for  
academics, professionals,  
graduate students, and  
professionals interested in  
novel research for wireless  
innovations.

This book includes selected  
papers from the 5th  
International Conference on



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Computational Vision and Bio  
Inspired Computing (ICCVBIC  
2021), held in Coimbatore,  
India, during November  
25-26, 2021. This book  
presents state-of-the-art  
research innovations in  
computational vision and bio-  
inspired techniques. The  
book reveals the theoretical  
and practical aspects of bio-  
inspired computing  
techniques, like machine  
learning, sensor-based  
models, evolutionary  
optimization and big data  
modeling and management that  
make use of effectual  
computing processes in the  
bio-inspired systems. It  
also contributes to the  
novel research that focuses

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on developing bio-inspired  
computing solutions for  
various domains, such as  
human-computer interaction,  
image processing, sensor-  
based single processing,  
recommender systems and  
facial recognition, which  
play an indispensable part  
in smart agriculture, smart  
city, biomedical and  
business intelligence  
applications.

Software Defined NetworksA  
Comprehensive ApproachMorgan  
Kaufmann

Proceedings of the 4th  
edition of the Computer  
Science Research Days, JRI  
2021, 11-13 November 2021,  
Bobo-Dioulasso, Burkina Faso  
Advances in Intelligent

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25th International Networking  
Conference, CN, 2018,  
Gliwice, Poland, June 19-22,  
2018, Proceedings  
Cognitive Radio, Software  
Defined Radio, and Adaptive  
Wireless Systems  
First International  
Conference, SmartTech-IC  
2019, Quito, Ecuador,  
December 2-4, 2019,  
Proceedings  
Emerging Technologies in  
Data Mining and Information  
Security  
Computer-Mediated  
Communication

**This book presents original  
contributions to the theories**

**and practices of emerging Internet, data and web technologies and their applicability in businesses, engineering and academia. The Internet has become the most proliferative platform for emerging large-scale computing paradigms. Among these, data and web technologies are two most prominent paradigms, in a variety of forms such as data centers, cloud computing, mobile cloud, mobile web services and so on. These technologies altogether create a digital ecosystem whose cornerstone is the**

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**data cycle, from capturing to processing, analysis and visualization. The investigation of various research and development issues in this digital ecosystem is boosted by the ever-increasing needs of real-life applications, which are based on storing and processing large amounts of data. As a key feature, this book addresses advances in the life cycle exploitation of data generated from the digital ecosystem data technologies that create value for the knowledge and businesses toward a**

**collective intelligence approach. Researchers, software developers, practitioners and students interested in the field of data and web technologies will find this book useful and a reference for their activity. This book describes the concept of a Software Defined Mobile Network (SDMN), which will impact the network architecture of current LTE (3GPP) networks. SDN will also open up new opportunities for traffic, resource and mobility management, as well as impose new**

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**challenges on network security. Therefore, the book addresses the main affected areas such as traffic, resource and mobility management, virtualized traffics transportation, network management, network security and techno economic concepts. Moreover, a complete introduction to SDN and SDMN concepts. Furthermore, the reader will be introduced to cutting-edge knowledge in areas such as network virtualization, as well as SDN concepts relevant to**

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**next generation mobile networks. Finally, by the end of the book the reader will be familiar with the feasibility and opportunities of SDMN concepts, and will be able to evaluate the limits of performance and scalability of these new technologies while applying them to mobile broadband networks.**

**This book gathers the most recent developments in fuzzy & intelligence systems and real complex systems presented at INFUS 2020, held in Istanbul on July 21-23, 2020. The INFUS**



**conferences are a well-established international research forum to advance the foundations and applications of intelligent and fuzzy systems, computational intelligence, and soft computing, highlighting studies on fuzzy & intelligence systems and real complex systems at universities and international research institutions. Covering a range of topics, including the theory and applications of fuzzy set extensions such as intuitionistic fuzzy sets, hesitant fuzzy sets, spherical**

**fuzzy sets, and fuzzy decision-making; machine learning; risk assessment; heuristics; and clustering, the book is a valuable resource for academics, M.Sc. and Ph.D. students, as well as managers and engineers in industry and the service sectors.**

**This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2022) held at Institute of Engineering & Management, Kolkata, India, during**

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**February 23-25, 2022. The book is organized in three volumes and includes high-quality research work by academicians and industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers, and case studies related to all the areas of data mining, machine learning, Internet of Things (IoT), and information security. This book constitutes the proceedings of the 8th International Conference on Ad Hoc Networks,**

**ADHOCNETS 2016, held in Ottawa, Canada, September 26-17, 2016. The 34 revised full papers presented were carefully reviewed and selected from 46 submissions. The papers provide visions, trends, challenges and opportunities in the area of ad hoc networking and emerging applications. The conference also features two workshops on ad hoc network security and vulnerability, and convergence of wireless directional network systems and software defined networking, respectively.**

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**Geo-Spatial Knowledge and  
Intelligence**

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**Handbook of Research on  
Software-Defined and**

**Cognitive Radio**

**Technologies for Dynamic  
Spectrum Management**

**Computer Networks**

**Software-defined**

**networking, Concepts du**

**SDN et OpenFlow,**

**contrôleur ONOS et**

**l'application SDN-IP,**

**Network function**

**virtualization, Virtualisation-**

**Reseaux, SDN, API, Netconf,**

**Overlay, NfV, FOG,**

**Orchestration,**

**Ad Hoc Networks**

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## **SDN-IP Sur un système ONOS SDN: Software Defined Networks**

As industries are rapidly being digitalized and information is being more heavily stored and transmitted online, the security of information has become a top priority in securing the use of online networks as a safe and effective platform. With the vast and diverse potential of artificial intelligence (AI) applications, it has become easier than ever to identify cyber vulnerabilities, potential threats, and the identification of solutions to these unique problems. The latest tools

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and technologies for AI applications have untapped potential that conventional systems and human security systems cannot meet, leading AI to be a frontrunner in the fight against malware, cyber-attacks, and various security issues. However, even with the tremendous progress AI has made within the sphere of security, it's important to understand the impacts, implications, and critical issues and challenges of AI applications along with the many benefits and emerging trends in this essential field of security-based research. Research Anthology on Artificial

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Intelligence Applications in Security seeks to address the fundamental advancements and technologies being used in AI applications for the security of digital data and information. The included chapters cover a wide range of topics related to AI in security stemming from the development and design of these applications, the latest tools and technologies, as well as the utilization of AI and what challenges and impacts have been discovered along the way. This resource work is a critical exploration of the latest research on security and an overview of how AI has impacted the field



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and will continue to advance as an essential tool for security, safety, and privacy online. This book is ideally intended for cyber security analysts, computer engineers, IT specialists, practitioners, stakeholders, researchers, academicians, and students interested in AI applications in the realm of security research.

This book constitutes the thoroughly refereed post-conference proceedings of the 9th International Symposium on Foundations and Practice of Security, FPS 2016, held in Québec City, QC, Canada, in October 2016. The 18 revised

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regular papers presented together with 5 short papers and 3 invited talks were carefully reviewed and selected from 34 submissions. The accepted papers cover diverse research themes, ranging from classic topics, such as malware, anomaly detection, and privacy, to emerging issues, such as security and privacy in mobile computing and cloud.

Software intensive systems are systems, which heavily interact with other systems, sensors, actuators, devices, other software systems, and users. More and more domains are involved with software intensive

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systems, e.g., automotive, telecommunication systems, embedded systems in general, industrial automation systems, and business applications.

Moreover, the outcome of web services delivers a new platform for enabling software intensive systems. Complex systems research is focused on the overall understanding of systems rather than its components.

Complex systems are very much characterized by the changing environments in which they act by their multiple internal and external interactions. They evolve and adapt through internal and external dynamic

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interactions. The development of intelligent systems and agents, which is each time more characterized by the use of ontologies and their logical foundations, builds a fruitful impulse for both software intensive systems and complex systems. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence, and cognitive sciences is a very important factor for the future development and innovation of software intensive and complex systems. The aim of the book "Complex, Intelligent and Software Intensive Systems" is to deliver a platform

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of scientific interaction between the three interwoven challenging areas of research and development of future ICT-enabled applications: software intensive systems, complex systems, and intelligent systems.

### SOFTWARE DEFINED

NETWORKS Software defined networking suggests an alternative worldview, one that comes with a new software stack to which this book is organized, with the goal of presenting a top-to-bottom tour of SDN without leaving any significant gaps that the reader might suspect can only be filled with magic or proprietary code. Software

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defined networking (SDN) is an architecture designed to make a network more flexible and easier to manage. SDN has been widely adopted across data centers, WANs, and access networks and serves as a foundational element of a comprehensive intent-based networking (IBN) architecture. Although SDN has so far been limited to automated provisioning and configuration, IBN now adds “translation” and “assurance” so that the complete network cycle can be automated, continuously aligning the network to business needs. In 14 chapters, this book provides a

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comprehensive understanding of  
an SDN-based network as a  
scalable distributed system  
running on commodity hardware.

The reader will have a one-stop  
reference looking into the  
applications, architectures,  
functionalities, virtualization,  
security, and privacy challenges  
connected to SDN. Audience  
Researchers in software, IT, and  
electronic engineering as well as  
industry engineers and

technologists working in areas  
such as network virtualization,  
Python network programming,  
CISCO ACI, software defined  
network, and cloud computing.

5G is the upcoming generation of

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the wireless network that will be the advanced version of 4G LTE+ providing all the features of a 4G LTE network and connectivity for IoT devices with faster speed and lower latency. The 5G network is going to be a service-oriented network, connecting billions of IoT devices and mobile phones through the wireless network, and hence, it needs a special emphasis on security. Security is the necessary enabler for the continuity of the wireless network business, and in 5G, network security for IoT devices is the most important aspect. As IoT is gaining momentum, people can



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remotely operate or instruct their network devices. Therefore, there is a need for robust security mechanisms to prevent unauthorized access to the devices. Evolution of Software-Defined Networking Foundations for IoT and 5G Mobile Networks is a collection of innovative research on the security challenges and prevention mechanisms in high-speed mobile networks. The book explores the threats to 5G and IoT and how to implement effective security architecture for them. While highlighting topics including artificial intelligence, mobile technology, and

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ubiquitous computing, this book is ideally designed for cybersecurity experts, network providers, computer scientists, communication technologies experts, academicians, students, and researchers.

Proceedings of the INFUS 2020 Conference, Istanbul, Turkey, July 21-23, 2020

ACNS 2019 Satellite Workshops, SiMLA, Cloud S&P, AIBlock, and AIoTS, Bogota, Colombia, June 5-7, 2019, Proceedings

A Comprehensive Approach  
Research Anthology on  
Developing and Optimizing 5G  
Networks and the Impact on  
Society

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Innovations in Software-Defined  
Networking and Network  
Functions Virtualization  
Proceedings of CCB 2020  
Cloud Based 5G Wireless  
Networks

An integral element of software engineering is model engineering. They both endeavor to minimize cost, time, and risks with quality software. As such, model engineering is a highly useful field that demands in-depth research on the most current approaches and techniques. Only by understanding the most up-to-date research can these methods reach their fullest potential. Advancements in Model-Driven Architecture in Software Engineering is an essential publication that prepares readers to exercise

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modeling and model transformation and covers state-of-the-art research and developments on various approaches for methodologies and platforms of model-driven architecture, applications and software development of model-driven architecture, modeling languages, and modeling tools.

Highlighting a broad range of topics including cloud computing, service-oriented architectures, and modeling languages, this book is ideally designed for engineers, programmers, software designers, entrepreneurs, researchers, academicians, and students.

This edited book provides an optimal portrayal of the principles and applications related to network security. The book is thematically

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divided into five segments: Part A describes the introductory issues related to network security with some concepts of cutting-edge technologies; Part B builds from there and exposes the readers to the digital, cloud and IoT forensics; Part C presents readers with blockchain and cryptography techniques; Part D deals with the role of AI and machine learning in the context of network security. And lastly, Part E is written on different security networking methodologies. This is a great book on network security, which has lucid and well-planned chapters. All the latest security technologies are thoroughly explained with upcoming research issues. Details on Internet architecture, security needs, encryption, cryptography along with

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the usages of machine learning and artificial intelligence for network security are presented in a single cover. The broad-ranging text/reference comprehensively surveys network security concepts, methods, and practices and covers network security policies and goals in an integrated manner. It is an essential security resource for practitioners in networks and professionals who develop and maintain secure computer networks.

Starting with problems and challenges faced by enterprise WANs, Software-Defined Wide Area Network Architectures and Technologies provides a detailed description of SD-WAN's background and basic features, as well as the system architecture,

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operating mechanism, and application scenarios of the SD-WAN solution based on the implementation of Huawei SD-WAN Solution. It also explains key SD-WAN technologies and analyzes real SD-WAN deployment cases, affording readers with design methods and deployment suggestions for the SD WAN solution. The information presented in this book is easy to understand and very practical. It enables you to become adept in the SD-WAN solution's implementation and design principles. The book is intended for ICT practitioners, such as network technical support engineers, network administrators, and network planning engineers, to use in studying theory. Furthermore, it serves as reference material for network technology

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enthusiasts. Authors Cheng Sheng is the Chief Architect of Huawei's SD-WAN Solution. He has nearly 20 years of experience in network product and solution design, as well as extensive expertise in product design and development, network planning and design, and network engineering project implementation. Jie Bai is an Architect of Huawei's SD-WAN Solution. He is well versed in Huawei security products and SD-WAN Solution and has written books such as Huawei Firewall Technology Talk as well as Huawei Anti-DDoS Technology Talk. Qi Sun is a Senior Information Architect of Huawei, and he is knowledgeable in Huawei SD-WAN Solution, CloudVPN Solution, and Cloud Management Solution. He also



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participated in the information architecture design and delivery of multiple solutions.

The advancement of technology is a standard of modern daily life, whether it be the release of a new cellphone, computer, or a self-driving car. Due to this constant advancement, the networks on which these technologies operate must advance as well. Innovations in Software-Defined Networking and Network Functions Virtualization is a critical scholarly publication that observes the advances made in network infrastructure through achieving cost efficacy while maintaining maximum flexibility for the formation and operation of these networks. Featuring coverage on a broad selection of topics, such as

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software-defined storage, openflow controller, and storage virtualization, this publication is geared toward professionals, computer engineers, academicians, students, and researchers seeking current and relevant research on the advancements made to network infrastructures. This handbook introduces the basic principles and fundamentals of cyber security towards establishing an understanding of how to protect computers from hackers and adversaries. The highly informative subject matter of this handbook, includes various concepts, models, and terminologies along with examples and illustrations to demonstrate substantial technical details of the field. It motivates the readers to exercise better

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protection and defense mechanisms to deal with attackers and mitigate the situation. This handbook also outlines some of the exciting areas of future research where the existing approaches can be implemented. Exponential increase in the use of computers as a means of storing and retrieving security-intensive information, requires placement of adequate security measures to safeguard the entire computing and communication scenario. With the advent of Internet and its underlying technologies, information security aspects are becoming a prime concern towards protecting the networks and the cyber ecosystem from variety of threats, which is illustrated in this handbook. This handbook primarily

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targets professionals in security, privacy and trust to use and improve the reliability of businesses in a distributed manner, as well as computer scientists and software developers, who are seeking to carry out research and develop software in information and cyber security. Researchers and advanced-level students in computer science will also benefit from this reference.

Cloud Mobile Networks

Handbook of Computer Networks and  
Cyber Security

Proceedings of the 16th International  
Conference on Complex, Intelligent  
and Software Intensive Systems  
(CISIS-2022)

ICT for an Inclusive World

Advancements in Model-Driven

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9th International Symposium, FPS  
Communications Networking  
2016, Québec City, QC, Canada,  
Distributed Systems  
October 24-25, 2016, Revised Selected  
Papers

Applied Cryptography and Network  
Security Workshops

Explore the emerging definitions,  
protocols, and standards for  
SDN—software-defined, software-  
driven, programmable networks—with  
this comprehensive guide. Two senior  
network engineers show you what's  
required for building networks that use  
software for bi-directional  
communication between applications  
and the underlying network  
infrastructure. This vendor-agnostic  
book also presents several SDN use  
cases, including bandwidth scheduling  
and manipulation, input traffic and

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triggered actions, as well as some interesting use cases around big data, data center overlays, and network-function virtualization. Discover how enterprises and service providers alike are pursuing SDN as it continues to evolve. Explore the current state of the OpenFlow model and centralized network control Delve into distributed and central control, including data plane generation Examine the structure and capabilities of commercial and open source controllers Survey the available technologies for network programmability Trace the modern data center from desktop-centric to highly distributed models Discover new ways to connect instances of network-function virtualization and service chaining Get detailed information on constructing and

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Le SDN Software Defined Networking est certainement le sujet le plus chaud qui agite le monde des réseaux ces dernières années. Il est impossible d'avoir un article, un tweet, un blog, une publication ou une conférence sans ces trois lettres qui semblent vouloir tout solutionner sur nos infrastructures. Dans une telle agitation, les administrateurs réseau sont le plus souvent perdus. Qu'est-ce que le SDN ? Qu'est-ce qu'OpenFlow ? Qu'est-ce que cela rapporte pour nous ? Est- t'elle une technologie applicable ou restera-t-elle dans les laboratoires ? Le SDN permet l'évolution du matériel et du logiciel d'une façon indépendante, et facilite le

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remplacement des équipements et des logiciels chers et propriétaires avec des équipements basiques et des systèmes d'exploitation gratuits et opens source. ONOS est un nouveau système d'exploitation open source destiné aux réseaux SDN qui permet le développement des applications de contrôle, et motivé par les exigences de performance, d'évolutivité et de disponibilité des réseaux. Ce Travail est divisé en trois chapitres présentés comme suit: Le premier chapitre présente l'analyse du contexte, c'est-à-dire une introduction de la technologie SDN et du protocole OpenFlow. Dans ce chapitre, nous allons présenter comment le passage des réseaux traditionnels vers les réseaux SDN a été réalisé, les fonctionnalités, les avantages, et quelles sont les perspectives futures de cette



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approche, ainsi que les principaux concepts du protocole OpenFlow considéré comme le protocole le plus important de cette technologie. Le deuxième chapitre présente un exemple de la pièce maîtresse de la technologie SDN appelée Contrôleur, il s'agit du contrôleur ONOS; dans cette partie nous présentons sa définition, son architecture, et ses avantages. Puis nous mettons l'accent sur une application fournie par ce contrôleur appelée SDN-IP. Le troisième est consacré à la partie pratique de notre travail, il présente l'installation et la configuration de notre application, ainsi que les tests et les résultats obtenus.

This book explores the challenges and opportunities in exploiting cloud technologies for 5G, ranging from radio access network (RAN) to the

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evolved packet core (EPC). With a specific focus on cloud RAN and EPC, the text carefully explains the influence of recent network technologies such as software defined networking (SDN), visualization, and cloud technologies in the evolution of architecture for future mobile networks. The book discusses the causes, benefits and challenges of cloud RAN and its interplay with other evolving technologies for future mobile networks. Researchers and professionals involved in mobile technology or cloud computing will find this book a valuable resource. The text is also suitable for advanced-level students studying all types of networking.

This book constitutes the proceedings of the 4th edition of the Computer Science Research Days on

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contributions of computer science research and digital innovations for the benefit of endogenous development for a Burkina Faso emerging, JRI 2021, held Virtually and presently, on November 11-13, 2021. This event, organized by the non-profit association « RECIF » (<https://recifaso.org/>), aims to provide a platform for scientifics, students, developers and practitioners in digital research and innovations to present, learn and discuss on endogenous development. The technical program of JRI 2021 consisted of eight (8) full accepted papers that were carefully reviewed and selected from twenty (20) initial submitted papers and keynote speeches. The presentations focused on multiple research fields like Computer Science, Artificial Intelligence, Image processing, Sensor

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network, and Big data analytics, followed by discussions in round table on strengthening collaboration in digital research and how to shape digital research for societal needs. This conference hoped to narrow the gap between practitioners, civil society and technical experts, to work on applications of digital research for sustainable development.

With the rapid rise of online resources such as those offered by Google, Dropbox and Microsoft cloud computing is playing a bigger part in everyday lives than most people can imagine. More and more services are being offered online even in academia and science terabytes of data is collected during experiments and this data has to be stored and provisioned across various geographical locations. This is achieved through

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distributed le systems and software defined networks is a new paradigm that provides interesting ways to improve these Distributed File systems. In order to understand the potential impact of SDN usage on distributed le systems this work has set out to characterize GlusterFS in certain configurations by emulating a realistic distributed load on the le system. Software Defined Networks as opposed to traditional networks are not static, in the sense that the system can manage data bandwidth and balance data loads according to requirements and cost. This work measures the performance in units of throughput in KB per second along with graphs of network activity from empirical executions to understand GlusterFS in more detail. Experimental results of introducing SDN into GlusterFS

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yielded very good results. Significant gains in the range of 45% - 60% in the quality of service were observed during manual manipulation of the network.

Proceedings of IEMIS 2022, Volume 3  
Information Fusion for Cyber-Security  
Analytics

Proceedings of the 35th International  
Conference on Advanced Information  
Networking and Applications  
(AINA-2021), Volume 3

Foundations and Practice of Security  
Advanced Information Networking and  
Applications

Advances in Internet, Data & Web  
Technologies

Research Anthology on Artificial  
Intelligence Applications in Security

**As technology advances,  
the emergence of 5G has**

**become an essential discussion moving forward as its applications and benefits are expected to enhance many areas of life. The introduction of 5G technology to society will improve communication speed, the efficiency of information transfer, and end-user experience to name only a few of many future improvements. These new opportunities offered by 5G networks will spread across industry, government, business, and personal**

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**user experiences leading  
to widespread innovation  
and technological  
advancement. What**

**stands at the very core of  
5G becoming an integral  
part of society is the very  
fact that it is expected to  
enrich society in a  
multifaceted way,  
enhancing connectivity  
and efficiency in just  
about every sector  
including healthcare,  
agriculture, business, and  
more. Therefore, it has  
been a critical topic of  
research to explore the  
implications of this**



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**technology, how it functions, what industries it will impact, and the challenges and solutions of its implementation into modern society. Research Anthology on Developing and Optimizing 5G Networks and the Impact on Society is a critical reference source that analyzes the use of 5G technology from the standpoint of its design and technological development to its applications in a multitude of industries. This overall view of the**

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**aspects of 5G networks  
creates a comprehensive  
book for all stages of the  
implementation of 5G,  
from early conception to  
application in various  
sectors. Topics  
highlighted include smart  
cities, wireless and  
mobile networks, radio  
access technology,  
internet of things, and  
more. This all-  
encompassing book is  
ideal for network experts,  
IT specialists,  
technologists,  
academicians,  
researchers, and**

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**students.**

**This book constitutes refereed proceedings of the First International Conference on Smart Technologies, Systems and Applications, held in Quito, Ecuador, in December 2019. The 27 full papers and 3 short papers presented were carefully reviewed and selected from 90 submissions. The papers of this volume are organized in topical sections on smart technologies; smart systems; smart trends**

**and applications.  
Software Defined  
Networks discusses the  
historical networking  
environment that gave  
rise to SDN, as well as the  
latest advances in SDN  
technology. The book  
gives you the state of the  
art knowledge needed for  
successful deployment of  
an SDN, including: How  
to explain to the non-  
technical business  
decision makers in your  
organization the potential  
benefits, as well as the  
risks, in shifting parts of  
a network to the SDN**

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**model How to make  
intelligent decisions  
about when to integrate  
SDN technologies in a  
network How to decide if  
your organization should  
be developing its own  
SDN applications or  
looking to acquire these  
from an outside vendor  
How to accelerate the  
ability to develop your  
own SDN application, be  
it entirely novel or a more  
efficient approach to a  
long-standing problem  
Discusses the evolution of  
the switch platforms that  
enable SDN Addresses**

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**when to integrate SDN technologies in a network Provides an overview of sample SDN applications relevant to different industries Includes practical examples of how to write SDN applications The inadequate use of wireless spectrum resources has recently motivated researchers and practitioners to look for new ways to improve resource efficiency. As a result, new cognitive radio technologies have been proposed as an effective solution. The**

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**Handbook of Research on  
Software-Defined and  
Cognitive Radio**

**Technologies for Dynamic  
Spectrum Management**  
examines the emerging  
technologies being used  
to overcome radio  
spectrum scarcity.

**Providing timely and  
comprehensive coverage  
on topics pertaining to  
channel estimation,  
spectrum sensing,  
communication security,  
frequency hopping, and  
smart antennas, this  
research work is essential  
for use by educators,**

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**industrialists, and  
graduate students, as well  
as academicians  
researching in the field.  
This book provides latest  
research findings,  
innovative research  
results, methods and  
development techniques  
from both theoretical and  
practical perspectives  
related to intelligent  
social networks and  
collaborative systems,  
intelligent networking  
systems, mobile  
collaborative systems,  
secure intelligent cloud  
systems, etc., as well as to**



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**reveal synergies among  
various paradigms in  
such a multi-disciplinary  
field intelligent  
collaborative systems.**

**With the fast  
development of the  
Internet, we are  
experiencing a shift from  
the traditional sharing of  
information and  
applications as the main  
purpose of the Web to an  
emergent paradigm,  
which locates people at  
the very centre of  
networks and exploits the  
value of people's  
connections, relations**

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**and collaboration. Social networks are also playing a major role in the dynamics and structure of intelligent Web-based networking and collaborative systems. Virtual campuses, virtual communities and organizations strongly leverage intelligent networking and collaborative systems by a great variety of formal and informal electronic relations, such as business-to-business, peer-to-peer and many types of online**

**collaborative learning interactions, including the emerging e-learning systems. This has resulted in entangled systems that need to be managed efficiently and in an autonomous way. In addition, latest and powerful technologies based on grid and wireless infrastructure as well as cloud computing are currently enhancing collaborative and networking applications a great deal but also facing new issues and challenges. The principal**

**purpose of the research and development community is to stimulate research that will lead to the creation of responsive environments for networking and, at longer-term, the development of adaptive, secure, mobile and intuitive intelligent systems for collaborative work and learning.**

**8th International Conference, ADHOCNETS 2016, Ottawa, Canada, September 26-27, 2016, Revised Selected Papers Complex, Intelligent and Software Intensive**

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**Systems**

**Industry 4.0-Towards the  
Smart Enterprise**

**JRI 2021**

**The 10th International  
Conference on Emerging  
Internet, Data and Web  
Technologies  
(EIDWT-2022)**

**Software Defined  
Networks**

**Principles and Paradigms**

This book constitutes the thoroughly refereed proceedings of the 25th International Conference on Computer Networks, CN 2018, held in Gliwice, Poland, in June 2018.

The 34 full papers presented were carefully reviewed and selected

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from 86 submissions. They are organized in topical sections on computer networks; teleinformatics and telecommunications; queueing theory; cybersecurity and quality service.

The two volume proceedings of CCIS 698 and 699 constitutes revised selected papers from the 4th International Conference on Geo- Informatics in Resource Management and Sustainable Ecosystem, GRMSE 2016, held in Hong Kong, China, in November 2016. The total of 118 papers presented in these proceedings were carefully reviewed and selected from 311 submissions. The contributions were organized in

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topical sections named: smart city in resource management and sustainable ecosystem; spatial data acquisition through RS and GIS in resource management and sustainable ecosystem; ecological and environmental data processing and management; advanced geospatial model and analysis for understanding ecological and environmental processes; applications of geo-informatics in resource management and sustainable ecosystem.

This SpringerBrief introduces key techniques for 5G wireless networks. The authors cover the development of wireless networks that led to 5G, and how 5G mobile

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communication technology (5G) can no longer be defined by a single business model or a typical technical characteristic. The discussed networks functions and services include Network Foundation Virtualization (N-FV), Cloud Radio Access Networks (Cloud-RAN), and Mobile Cloud Networking (MCN). The benefits of cloud platforms are examined, as are definable networking and green wireless networking. Other related and representative projects on 5G are mobile and wireless communications enablers for the Twenty-Twenty Information Society, Multi-hop Cellular Networks, Network Function as-a-



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Service over Virtualized  
Architectures, iJOIN, and Nuage  
Infrastructure, iJOIN, and Nuage  
Virtualized Services Platform.

Distributed Systems  
Major applications of 5G range from  
RAN sharing and Multi-Operator  
Core Networks to mobile  
convergence. Enhancing the user  
experience by providing smart and  
customized services, 5G will  
support the explosive growth of big  
data, mobile internet, digital media,  
and system efficiency. This  
SpringerBrief is designed for  
professionals, researchers, and  
academics working in networks or  
system applications. Advanced-level  
students of computer science or  
computer engineering will also find  
the content valuable.

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This book highlights several gaps that have not been addressed in existing cyber security research. It first discusses the recent attack prediction techniques that utilize one or more aspects of information to create attack prediction models. The second part is dedicated to new trends on information fusion and their applicability to cyber security; in particular, graph data analytics for cyber security, unwanted traffic detection and control based on trust management software defined networks, security in wireless sensor networks & their applications, and emerging trends in security system design using the concept of social behavioral biometric. The book

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guides the design of new commercialized tools that can be introduced to improve the accuracy of existing attack prediction models. Furthermore, the book advances the use of Knowledge-based Intrusion Detection Systems (IDS) to complement existing IDS technologies. It is aimed towards cyber security researchers.

This book focuses on the modeling, optimization, and applications of 5G green mobile communication networks, aimed at improving energy efficiency and spectrum utilization in 5G systems. It offers a balance between theoretical analysis and engineering practice, providing in-depth studies of a number of

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major topics, such as energy consumption models, optimization, system design, implementation, and performance evaluation. It also discusses four aspects of green communication in detail: cellular networks, resource management, wireless transmissions and multi-media communications. Further, this unique book comprehensively and systematically discusses green optimization in wireless mobile communications. As such it is a valuable resource for researchers, engineers, and graduate students in various fields, including telecommunications engineering, electrical and electronic engineering, and computer engineering,

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particularly those interested in green  
communications.

Intelligent and Fuzzy Techniques:

Smart and Innovative Solutions

Architecture and Applications

Contemporary Issues in

Communication, Cloud and Big

Data Analytics

Smart Technologies, Systems and

Applications

Evolution of Software-Defined

Networking Foundations for IoT and

5G Mobile Networks

Software Defined Mobile Networks

(SDMN)

Computational Vision and Bio-

Inspired Computing

*This book constitutes the*

*proceedings of the satellite*

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*workshops held around the 17th  
International Conference on  
Applied Cryptography and  
Network Security, ACNS 2019, in  
Bogota, Colombia, in June 2019.  
The 10 papers presented in this  
volume were carefully reviewed  
and selected from 30  
submissions. They stem from  
the following workshops:  
AIBlock 2019: First International  
Workshop on Application  
Intelligence and Blockchain  
Security  
AloTS 2019: First  
International Workshop on  
Artificial Intelligence and  
Industrial Internet-of-Things  
Security  
Cloud S&P 2019: First  
International Workshop on*

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Distributed Systems  
Privacy-preserving Distributed

Data AnalysisSiMLA 2019: First

International Workshop on

Security in Machine Learning  
and its Applications

The "Essence" of Network

Security: An End-to-End

Panorama

Advances in Internet, Data and  
Web Technologies

Software-Defined Wide Area

Network Architectures and

Technologies

From RAN to EPC

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