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ALGORITHM DESIGN: FOUNDATION, ANALYSIS AND INTERNET EXAMPLES
Vulnerability Analysis and Defense for the Internet *Doing Business on the Internet*
Integration of Cloud Computing with Internet of Things *Vulnerability Analysis and Defense for the Internet*
Network Behavior Analysis **Application of Big Data, Blockchain, and Internet of Things for Education Informatization**
Advances on P2P, Parallel, Grid, Cloud and Internet Computing
Distributed Computing and Internet Technology **Modeling and Design of Secure Internet of Things Intelligent Cyber Physical Systems and Internet of Things Smart Grid and Internet of Things**
Network Neutrality and Internet Regulation *Psychological, Social, and Cultural Aspects of Internet Addiction*
Recent Progress in Data Engineering and Internet Technology
Proceedings of the 5th International Conference on Big Data and Internet of Things
Innovative Mobile and Internet Services in Ubiquitous Computing *Green Finance for Sustainable Global Growth*
Ambient Intelligence and Internet of Things
Distributed Computing and Internet Technology
Beyond the Worst-Case Analysis of Algorithms *International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI)*
2018 New Trends and Applications in Internet of Things (IoT) and Big Data Analytics
Broadcast and Internet Indecency
Convergence of Television and Internet - Analysis of RTV SLO and ORF
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Computer Communication, Networking and Internet Security
Algorithm Design and Applications

Broadcast and Internet Indecency Mar 02 2021 Indecency--arguably among the most provocative and incendiary issues in today's media--is speech at the edge of social tolerance. This timely volume examines broadcast and Internet indecency from legal and social perspectives, utilizing current cases and well-publicized examples. In exploring the issues associated with this highly controversial area, author Jeremy Harris Lipschultz makes headway toward an understanding of how indecency, as communication on the fringes of social norms, functions in defining free expression through specific types of speech. He contrasts conceptualizations of indecency and obscenity, synthesizes case law and social research, and develops theoretical generalizations for future research and study. His work provides a comprehensive examination of broadcast and Internet indecency issues and cases that serve to test generalizations about freedom of expression and one's ability to define free speech.

Network Neutrality and Internet Regulation Feb 13 2022

Advances on P2P, Parallel, Grid, Cloud and Internet Computing Jul 26 2020 This book presents the latest research findings, innovative research results, methods and development techniques related to P2P, grid, cloud and Internet computing from both theoretical and practical perspectives. It also reveals the synergies among such large-scale computing paradigms. P2P, grid, cloud and Internet computing technologies have rapidly become established as breakthrough paradigms for solving complex problems by enabling aggregation and sharing of an increasing variety of distributed computational resources at large scale. Grid computing originated as a paradigm for high-performance computing, as an alternative to expensive supercomputers through different forms of large-scale distributed computing. P2P computing emerged as a new paradigm after client-server and web-based computing and has proved useful in the development of social networking, B2B (business to business), B2C (business to consumer), B2G (business to government), and B2E (business to employee). Cloud computing has been defined as a “computing paradigm where the boundaries of computing are determined by economic rationale rather than technical limits,” and it has fast become a computing paradigm with applicability and adoption in all application domains and which provides utility computing at a large scale. Lastly, Internet computing is the basis of any large-scale distributed computing paradigms; it has developed into a vast area of flourishing fields with enormous impact on today’s information societies, and serving as a universal platform comprising a large variety of computing forms such as grid, P2P, cloud and mobile computing.

Psychological, Social, and Cultural Aspects of Internet Addiction Jan 12 2022 Addiction is a powerful and destructive condition impacting large portions of the population around the world. While typically associated with substances, such as drugs and alcohol, technology and internet addiction have become a concern in recent years as technology use has become ubiquitous. *Psychological, Social, and Cultural Aspects of Internet Addiction* is a critical scholarly resource that sheds light on the relationship between psycho-social variables and internet addiction. Featuring coverage on a broad range of topics such as human-computer interaction, academic performance, and online behavior, this book is geared towards psychologists, counselors, graduate-level students, and researchers studying psychology and technology use.

Green Finance for Sustainable Global Growth Sep 08 2021 Businesses working under green finance models consider the potential environmental impact in investment and financing decisions and merge the potential return, risk, and cost correlated with environmental conditions into day-to-day financial business. Under this model, the ecological environment and sustainable development of society is observed and promoted. *Green Finance for Sustainable Global Growth* is an essential reference source that discusses emerging financial models that focus on sustainable development and environmental protection including developing trends in green finance, internet finance, and sustainable finance. Featuring research on topics such as competitive financing, supply chain management, and financial law, this book is ideally designed for accountants, financial managers, professionals, academicians, researchers, and students seeking coverage on the sustainable development of the finance industry.

International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018 May 04 2021 This book discusses data communication and computer networking, communication technologies and the applications of IoT (Internet of Things), big data, cloud computing and healthcare informatics. It explores, examines and critiques intelligent data communications and presents inventive methodologies in communication technologies and IoT. Aimed at researchers and academicians who need to understand the importance of data communication and advanced technologies in IoT, it offers different perspectives to help readers increase their knowledge and motivates them to conduct research in the area, highlighting various innovative ideas for future research.

Innovative Mobile and Internet Services in Ubiquitous Computing Oct 09 2021 This book presents the latest research findings, methods and development techniques, challenges and solutions concerning UPC from both theoretical and practical perspectives, with an emphasis on innovative, mobile and Internet services. With the proliferation of wireless technologies and electronic devices, there is a rapidly growing interest in Ubiquitous and Pervasive Computing (UPC), which makes it possible to create a human-oriented computing environment in which computer chips are embedded in everyday objects and interact with the physical world. Through UPC, people can go online even while moving around, thus enjoying nearly permanent access to their preferred services. Though it has the potential to revolutionize our lives, UPC also poses a number of new research challenges.

Internet Newspapers Dec 31 2020 Internet Newspapers: The Making of a Mainstream Medium examines newspapers on the Internet, and addresses the emergence of online newspapers and the delivery of news through this outlet. Utilizing empirical research, chapters explore the theoretical and practical issues associated with Internet newspapers and examine the process through which online newspapers have grown into a mainstream medium. Contributions to this work emphasize three key areas: the structure and presentation of newspapers on the Internet; the medium as an interactive process; and the ways in which the public interacts with Internet newspapers. This collection makes a substantial contribution to the understanding of newspapers on the Internet, covering their development and changes as well as the impact that news delivery through this medium has had on other media, audiences, and society. It also sheds light on improving operation and performance of Internet newspapers to better serve the public and gain competitive knowledge. The volume encourages additional scholarship in this area, and also shows how researchers can benefit from an empirical approach to their examination of Internet newspapers. Internet Newspapers will appeal to scholars, researchers, and students of journalism and mass communications, and can be used as a supplementary text in advanced courses covering journalism, communication technology, and mass media and society.

Big Data and Internet of Things: A Roadmap for Smart Environments May 24 2020 This book presents current progress on challenges related to Big Data management by focusing on the particular challenges associated with context-aware data-intensive applications and services. The book is a state-of-the-art reference discussing progress made, as well as prompting future directions on the theories, practices, standards and strategies that are related to the emerging computational technologies and their association with supporting the Internet of Things advanced functioning for organizational settings including both business and e-science. Apart from inter-operable and inter-cooperative aspects, the book deals with a notable opportunity namely, the current trend in which a collectively shared and generated content is emerged from Internet end-users. Specifically, the book presents advances on managing and exploiting the vast size of data generated from within the smart environment (i.e. smart cities) towards an integrated, collective intelligence approach. The book also presents methods and practices to improve large storage infrastructures in response to increasing demands of the data intensive applications. The book contains 19 self-contained chapters that were very carefully selected based on peer review by at least two expert and independent reviewers and is organized into the three sections reflecting the general themes of interest to the IoT and Big Data communities: Section I: Foundations and Principles Section II: Advanced Models and Architectures Section III: Advanced Applications and Future Trends The book is intended for researchers interested in joining interdisciplinary and transdisciplinary works in the areas of Smart Environments, Internet of Things and various computational technologies for the purpose of an integrated collective computational intelligence approach into the Big Data era.

Ambient Intelligence and Internet of Things Aug 07 2021 AMBINET INTELLIGENCE AND

INTERNET OF THINGS The book explores long-term implementation techniques and research paths of ambient intelligence and the Internet of Things that meet the design and application requirements of a variety of modern and real-time applications. Working environments based on the emerging technologies of ambient intelligence (AmI) and the Internet of Things (IoT) are available for current and future use in the diverse field of applications. The AmI and IoT paradigms aim to help people achieve their daily goals by augmenting physical environments using networks of distributed devices, including sensors, actuators, and computational resources. Because AmI-IoT is the convergence of numerous technologies and associated research fields, it takes significant effort to integrate them to make our lives easier. It is asserted that Am I can successfully analyze the vast amounts of contextual data obtained from such embedded sensors by employing a variety of artificial intelligence (AI) techniques and that it will transparently and proactively change the environment to conform to the requirements of the user. Over time, the long-term research goals and implementation strategies could meet the design and application needs of a wide range of modern and real-time applications. The 13 chapters in Ambient Intelligence and Internet of Things: Convergent Technologies provide a comprehensive knowledge of the fundamental structure of innovative cutting-edge AmI and IoT technologies as well as practical applications. Audience The book will appeal to researchers, industry engineers, and students in artificial and ambient intelligence, the Internet of Things, intelligent systems, electronics and communication, electronics instrumentations, and computer science.

Modeling and Design of Secure Internet of Things May 16 2022 An essential guide to the modeling and design techniques for securing systems that utilize the Internet of Things Modeling and Design of Secure Internet of Things offers a guide to the underlying foundations of modeling secure Internet of Things' (IoT) techniques. The contributors—noted experts on the topic—also include information on practical design issues that are relevant for application in the commercial and military domains. They also present several attack surfaces in IoT and secure solutions that need to be developed to reach their full potential. The book offers material on security analysis to help with in understanding and quantifying the impact of the new attack surfaces introduced by IoT deployments. The authors explore a wide range of themes including: modeling techniques to secure IoT, game theoretic models, cyber deception models, moving target defense models, adversarial machine learning models in military and commercial domains, and empirical validation of IoT platforms. This important book: Presents information on game-theory analysis of cyber deception Includes cutting-edge research finding such as IoT in the battlefield, advanced persistent threats, and intelligent and rapid honeynet generation Contains contributions from an international panel of experts Addresses design issues in developing secure IoT including secure SDN-based network orchestration, networked device identity management, multi-domain battlefield settings, and smart cities Written for researchers and experts in computer science and engineering, Modeling and Design of Secure Internet of Things contains expert contributions to provide the most recent modeling and design techniques for securing systems that utilize Internet of Things.

Microelectronics, Communication Systems, Machine Learning and Internet of Things Feb 19 2020 This volume presents peer-reviewed papers of the First International Conference on Microelectronics, Communication Systems, Machine Learning, and the Internet of Things (MCMII-2020). This book discusses recent trends in technology and advancement in microelectronics, nano-electronics, VLSI design, IC technologies, wireless communications, optical communications, SoC, advanced instrumentations, signal processing, internet of things, machine learning, image processing, green energy, hybrid vehicles, weather forecasting, cloud computing, renewable energy, CMOS sensors, actuators, RFID, transducers, real-time embedded system, sensor network and applications, EDA design tools and techniques, fuzzy logic &

artificial intelligence, high-performance computer architecture, AI-based robotics & applications, brain-computer interface, deep learning, advanced operating systems, supply chain development & monitoring, physical systems design, ICT applications, e-farming, information security, etc. It includes original papers based on theoretical, practical, experimental, simulations, development, application, measurement, and testing. The applications and solutions discussed in the book will serve as good reference material for young scholars, researchers, and academics.

Vulnerability Analysis and Defense for the Internet Jan 24 2023 Vulnerability analysis, also known as vulnerability assessment, is a process that defines, identifies, and classifies the security holes, or vulnerabilities, in a computer, network, or application. In addition, vulnerability analysis can forecast the effectiveness of proposed countermeasures and evaluate their actual effectiveness after they are put into use. *Vulnerability Analysis and Defense for the Internet* provides packet captures, flow charts and pseudo code, which enable a user to identify if an application/protocol is vulnerable. This edited volume also includes case studies that discuss the latest exploits.

Integration of Cloud Computing with Internet of Things Nov 22 2022 The book aims to integrate the aspects of IoT, Cloud computing and data analytics from diversified perspectives. The book also plans to discuss the recent research trends and advanced topics in the field which will be of interest to academicians and researchers working in this area. Thus, the book intends to help its readers to understand and explore the spectrum of applications of IoT, cloud computing and data analytics. Here, it is also worth mentioning that the book is believed to draw attention on the applications of said technology in various disciplines in order to obtain enhanced understanding of the readers. Also, this book focuses on the researches and challenges in the domain of IoT, Cloud computing and Data analytics from perspectives of various stakeholders.

Distributed Computing and Internet Technology Jun 17 2022 This book constitutes the refereed proceedings of the 9th International Conference on Distributed Computing and Internet Technology, ICDCIT 2013, held in Bhubaneswar, India, in February 2013. The 40 full papers presented together with 5 invited talks in this volume were carefully reviewed and selected from 164 submissions. The papers cover various research aspects in distributed computing, internet technology, computer networks, and machine learning.

Measurements and Analysis of End-to-end Internet Dynamics Jan 20 2020

Distributed Computing and Internet Technology Oct 29 2020 This book constitutes the proceedings of the 17th International Conference on Distributed Computing and Internet Technology, ICDCIT 2020, held in Bhubaneswar, India, in January 2021. The 13 full papers presented together with 4 short papers were carefully reviewed and selected from 99 submissions. The papers were organized in topical sections named: invited talks, cloud computing and networks, distributed algorithms, concurrency and parallelism, graph algorithms and security, social networks and machine learning, and short papers.

Intelligent Data Communication Technologies and Internet of Things Apr 22 2020 This book solicits the innovative research ideas and solutions for almost all the intelligent data intensive theories and application domains. The proliferation of various mobile and wireless communication networks has paved way to foster a high demand for intelligent data processing and communication technologies. The potential of data in wireless mobile networks is enormous, and it constitutes to improve the communication capabilities profoundly. As the networking and communication applications are becoming more intensive, the management of data resources and its flow between various storage and computing resources are posing significant research challenges to both ICT and data science community. The general scope of this book covers the design, architecture, modeling, software, infrastructure and applications of intelligent communication architectures and systems for big data or data-intensive applications. In

particular, this book reports the novel and recent research works on big data, mobile and wireless networks, artificial intelligence, machine learning, social network mining, intelligent computing technologies, image analysis, robotics and autonomous systems, data security and privacy.

New Trends and Applications in Internet of Things (IoT) and Big Data Analytics Apr 03 2021 This book focuses on the use of The Internet of Things (IoT) and big data in business intelligence, data management, Hadoop, machine learning, cloud, smart cities, etc. IoT and big data emerged from the early 2000s data boom, driven forward by many of the early internet and technology companies. The Internet of Things (IoT) is an interconnection of several devices, networks, technologies, and human resources to achieve a common goal. There are a variety of IoT-based applications being used in different sectors and have succeeded in providing huge benefits to the users. The generation of big data by IoT has ruptured the existing data processing capacity of IoT and recommends to adopt the data analytics to strengthen solutions. The success of IoT depends upon the influential association of big data analytics. New technologies like search engines, mobile devices, and industrial machines provided as much data as companies could handle—and the scale continues to grow. In a study conducted by IDC, the market intelligence firm estimated that the global production of data would grow 10x between 2015 and 2020. So, the proposed book covers up all the aspects in the field discuss above.

Advances on P2P, Parallel, Grid, Cloud and Internet Computing Jul 18 2022 P2P, Grid, Cloud and Internet computing technologies have been very fast established as breakthrough paradigms for solving complex problems by enabling aggregation and sharing of an increasing variety of distributed computational resources at large scale. The aim of this volume is to provide latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to P2P, Grid, Cloud and Internet computing as well as to reveal synergies among such large scale computing paradigms. This proceedings volume presents the results of the 11th International Conference on P2P, Parallel, Grid, Cloud And Internet Computing (3PGCIC-2016), held November 5-7, 2016, at Soonchunhyang University, Asan, Korea

Doing Business on the Internet Dec 23 2022 A practical guide to Internet business transactions. With over 65 forms and checklists from actual Internet deals and transactions, it's a hands-on guide to the law of Internet commerce.

Smart Grid and Internet of Things Mar 14 2022 This book constitutes the refereed proceedings of the Third EAI International Conference on Smart Grid and Internet of Things, SGIoT 2019, held in TaiChung, Taiwan, in November 2019. The 10 papers presented were carefully reviewed and selected from 22 submissions and present results on how to achieve more efficient use of resources based largely on the IoT-based machine-to-machine (M2M) interactions of millions of smart meters and sensors in the smart grid specific communication networks such as home area networks, building area networks, and neighborhood area networks. The smart grid also encompasses IoT technologies, which monitor transmission lines, manage substations, integrate renewable energy generation. Through these technologies, the authorities can smartly identify outage problems, and intelligently schedule the power generation and delivery to the customers. Furthermore, the smart grid should teach us a valuable lesson that security must be designed in from the start of any IoT deployment.

Recent Progress in Data Engineering and Internet Technology Dec 11 2021 The latest inventions in internet technology influence most of business and daily activities. Internet security, internet data management, web search, data grids, cloud computing, and web-based applications play vital roles, especially in business and industry, as more transactions go online and mobile. Issues related to ubiquitous computing are becoming critical. Internet technology and data engineering should reinforce efficiency and effectiveness of business processes. These

technologies should help people make better and more accurate decisions by presenting necessary information and possible consequences for the decisions. Intelligent information systems should help us better understand and manage information with ubiquitous data repository and cloud computing. This book is a compilation of some recent research findings in Internet Technology and Data Engineering. This book provides state-of-the-art accounts in computational algorithms/tools, database management and database technologies, intelligent information systems, data engineering applications, internet security, internet data management, web search, data grids, cloud computing, web-based application, and other related topics.

Application of Big Data, Blockchain, and Internet of Things for Education Informatization

Aug 19 2022 The three-volume set LNICST 465, 466 and 467 constitutes the proceedings of the Second EAI International Conference on Application of Big Data, Blockchain, and Internet of Things for Education Informatization, BigIoT-EDU 2022, held as virtual event, in July 29–31, 2022. The 204 papers presented in the proceedings were carefully reviewed and selected from 550 submissions. BigIoT-EDU aims to provide international cooperation and exchange platform for big data and information education experts, scholars and enterprise developers to share research results, discuss existing problems and challenges, and explore cutting-edge science and technology. The conference focuses on research fields such as “Big Data” and “Information Education. The use of Artificial Intelligence (AI), Blockchain and network security lies at the heart of this conference as we focused on these emerging technologies to excel the progress of Big Data and information education.

Because Internet Aug 27 2020 AN INSTANT NEW YORK TIMES BESTSELLER!! Named a Best Book of 2019 by TIME, Amazon, and The Washington Post A Wired Must-Read Book of Summer “Gretchen McCulloch is the internet’s favorite linguist, and this book is essential reading. Reading her work is like suddenly being able to see the matrix.” —Jonny Sun, author of everyone’s a liebn when ur a liebn too Because Internet is for anyone who’s ever puzzled over how to punctuate a text message or wondered where memes come from. It’s the perfect book for understanding how the internet is changing the English language, why that’s a good thing, and what our online interactions reveal about who we are. Language is humanity’s most spectacular open-source project, and the internet is making our language change faster and in more interesting ways than ever before. Internet conversations are structured by the shape of our apps and platforms, from the grammar of status updates to the protocols of comments and @replies. Linguistically inventive online communities spread new slang and jargon with dizzying speed. What’s more, social media is a vast laboratory of unedited, unfiltered words where we can watch language evolve in real time. Even the most absurd-looking slang has genuine patterns behind it. Internet linguist Gretchen McCulloch explores the deep forces that shape human language and influence the way we communicate with one another. She explains how your first social internet experience influences whether you prefer “LOL” or “lol,” why ~sparkly tildes~ succeeded where centuries of proposals for irony punctuation had failed, what emoji have in common with physical gestures, and how the artfully disarrayed language of animal memes like lolcats and doggo made them more likely to spread.

ALGORITHM DESIGN: FOUNDATION, ANALYSIS AND INTERNET EXAMPLES Feb 25 2023

Market_Desc: · Computer Programmers· Software Engineers· Scientists Special Features: · Addresses the issue of the implementation of data structures and algorithms· Covers Cryptology, FFTs, Parallel algorithms, and NP-completeness About The Book: This text addresses the often neglected issue of how to actually implement data structures and algorithms. The title Algorithm Engineering reflects the authors’ approach that designing and implementing algorithms takes more than just the theory of algorithms. It also involves engineering design principles, such as abstract data types, object-orient design patterns, and software use and

robustness issues.

Distributed Computing and Internet Technology Jul 06 2021 This book constitutes the refereed proceedings of the First International Conference on Distributed Computing and Internet Technology, ICDCIT 2004, held in Bhubaneswar, India in December 2004. The 47 revised papers presented together with 3 invited papers and 5 abstracts of invited or workshop papers were carefully reviewed and selected from 211 submissions. The papers are organized in topical sections on algorithms and modeling; systems, protocols, and performance; transactions and information dissemination; internet query and retrieval; protocol and replica management; ontologies and services; systems analysis and modeling; tools and techniques; systems security; intrusion detection and access control; networks and security; secured systems design; and security services.

Web and Internet Economics Jun 24 2020 This book constitutes the refereed proceedings of the 18th International Conference on Web and Internet Economics, WINE 2022, which was held Troy, NY, USA in December 2022. The 19 full papers presented together with 19 abstracts in this volume were carefully reviewed and selected from 126 submissions. They were organized in topical sections as follows: theoretical computer science, artificial intelligence, economics, operations research, and applied mathematics.

Computer Communication, Networking and Internet Security Nov 17 2019 The book is a compilation of high-quality scientific papers presented at the 3rd International Conference on Computer & Communication Technologies (IC3T 2016). The individual papers address cutting-edge technologies and applications of soft computing, artificial intelligence and communication. In addition, a variety of further topics are discussed, which include data mining, machine intelligence, fuzzy computing, sensor networks, signal and image processing, human-computer interaction, web intelligence, etc. As such, it offers readers a valuable and unique resource.

Beyond the Worst-Case Analysis of Algorithms Jun 05 2021 Introduces exciting new methods for assessing algorithms for problems ranging from clustering to linear programming to neural networks.

Nexus Analysis Nov 29 2020 Nexus Analysis presents an exciting theory by two of the leading names in discourse analysis and provides a practical guide to its application. The authors argue that discourse analysis can itself be a form of social action. If the discourse analyst is part of the nexus of practice under study, then the analysis can itself transform that nexus of practice. Focussing on their own involvement with and analysis of pioneering communication technologies in Alaska they identify moments of social importance in order to examine the links between social practice, culture and technology. Media are identified not only as means of expressing change but also as catalysts for change itself, with the power to transform the socio-cultural landscape. In this intellectually exciting yet accessible book, Ron Scollon and Suzie Wong Scollon present a working example of their theory in action and provide a personal snapshot of a key moment in the history of communication technology, as the Internet transformed Alaskan life.

Valuation of Internet and Technology Stocks Mar 22 2020 Valuation of Internet and Technology Stocks offers practical information on how to value internet and high-tech companies more accurately. The book reviews previous practice, highlights the deficiencies in existing stock market techniques, and shows how to modify or replace them. It also demonstrates how the New Economics necessitates new forms of investment analysis. This book presents new ways of looking, researching and valuing internet and high-tech companies. It explains why there has been a high correlation between high loss companies and a rocketing stock price. It questions whether there is still a place for discounted cash flows when there is no cash flow to discount. It also considers what new methods are available to value super growth companies and whether

these methods are any better than existing techniques. Chapters deal with a wide range of topics including: where technology/internet stocks fit in a new economy; how you value traditional common stocks; application of the Porter model to the valuation of technology/internet stocks; problems with applying traditional valuation models for technology/internet stocks; derivative markets and real options; and the lessons that can be learned by investors from the year 2000 collapse of technology/internet stocks. This text will be of interest to traders, investment managers, institutional investors, plan managers, and finance professionals. * Investigates why there has been a high correlation between high loss companies and a rocketing stock price * Questions whether there is still a place for discounted cash flows when there is no cash flow to discount * Considers what new methods are available to value super growth companies and whether these methods are any better than existing techniques

Convergence of Television and Internet - Analysis of RTV SLO and ORF Feb 01 2021

Proceedings of the 5th International Conference on Big Data and Internet of Things Nov 10 2021 This book is a collection of papers in the research area of big data, cloud computing, cybersecurity, machine learning, deep learning, e-learning, Internet of Things, reinforcement learning, information system, social media and natural language processing. This book includes papers presented at the 5th International Conference on Big Data Cloud and Internet of Things, BDIoT 2021 during March 17–18, 2021, at ENSIAS, Mohammed V University in Rabat, Morocco.

Proceedings of the 3rd International Symposium of Information and Internet Technology (SYMINTTECH 2018) Dec 19 2019 This book gathers the proceedings of a symposium on the role of Internet technologies and how they can transform and improve people's lives. The Internet is essentially a massive database where all types of information can be shared and transmitted. This can be done passively in the form of non-interactive websites and blogs; or it can be done actively in the form of file sharing and document up- and downloading. Thanks to these technologies, a wealth of information is now available to anyone who can access the Internet. Moreover, Internet technologies are constantly improving: growing faster, offering more diverse information, and supporting processes that would have been impossible in the past. As a result, they have changed, and will continue to change, the way that the world does business and how people interact in their day-to-day lives. In conclusion, the symposium and these proceedings provide a valuable opportunity for leading researchers, engineers and professionals around the globe to discuss the latest advances that are helping the world move forward. They also facilitate the exchange of new ideas in the fields of communication technology to create a dialogue between these groups concerning the latest innovations, trends and concerns, practical challenges and potential solutions in the field of Internet technologies.

Traffic Monitoring and Analysis Sep 27 2020 This book constitutes the proceedings of the 4th International Workshop on Traffic Monitoring and Analysis, TMA 2012, held in Vienna, Austria, in March 2012. The thoroughly refereed 10 full papers and 8 short papers presented in this volume were carefully reviewed and selected from 31 submissions. The contributions are organized in topical sections on traffic analysis and characterization: new results and improved measurement techniques; measurement for QoS, security and service level agreements; and tools for network measurement and experimentation.

Network Behavior Analysis Sep 20 2022 This book provides a comprehensive overview of network behavior analysis that mines Internet traffic data in order to extract, model, and make sense of behavioral patterns in Internet "objects" such as end hosts, smartphones, Internet of things, and applications. The objective of this book is to fill the book publication gap in network behavior analysis, which has recently become an increasingly important component of comprehensive network security solutions for data center networks, backbone networks,

enterprise networks, and edge networks. The book presents fundamental principles and best practices for measuring, extracting, modeling and analyzing network behavior for end hosts and applications on the basis of Internet traffic data. In addition, it explains the concept and key elements (e.g., what, who, where, when, and why) of communication patterns and network behavior of end hosts and network applications, drawing on data mining, machine learning, information theory, probabilistic graphical and structural modeling to do so. The book also discusses the benefits of network behavior analysis for applications in cybersecurity monitoring, Internet traffic profiling, anomaly traffic detection, and emerging application detections. The book will be of particular interest to researchers and practitioners in the fields of Internet measurement, traffic analysis, and cybersecurity, since it provides a spectrum of innovative techniques for summarizing behavior models, structural models, and graphic models of Internet traffic, and explains how to leverage the results for a broad range of real-world applications in network management, security operations, and cyber-intelligent analysis. After finishing this book, readers will 1) have learned the principles and practices of measuring, modeling, and analyzing network behavior on the basis of massive Internet traffic data; 2) be able to make sense of network behavior for a spectrum of applications ranging from cybersecurity and network monitoring to emerging application detection; and 3) understand how to explore network behavior analysis to complement traditional perimeter-based firewall and intrusion detection systems in order to detect unusual traffic patterns or zero-day security threats using data mining and machine learning techniques. To ideally benefit from this book, readers should have a basic grasp of TCP/IP protocols, data packets, network flows, and Internet applications.

Vulnerability Analysis and Defense for the Internet Oct 21 2022 Vulnerability analysis, also known as vulnerability assessment, is a process that defines, identifies, and classifies the security holes, or vulnerabilities, in a computer, network, or application. In addition, vulnerability analysis can forecast the effectiveness of proposed countermeasures and evaluate their actual effectiveness after they are put into use. *Vulnerability Analysis and Defense for the Internet* provides packet captures, flow charts and pseudo code, which enable a user to identify if an application/protocol is vulnerable. This edited volume also includes case studies that discuss the latest exploits.

Algorithm Design and Applications Oct 17 2019 Introducing a NEW addition to our growing library of computer science titles, *Algorithm Design and Applications*, by Michael T. Goodrich & Roberto Tamassia! Algorithms is a course required for all computer science majors, with a strong focus on theoretical topics. Students enter the course after gaining hands-on experience with computers, and are expected to learn how algorithms can be applied to a variety of contexts. This new book integrates application with theory. Goodrich & Tamassia believe that the best way to teach algorithmic topics is to present them in a context that is motivated from applications to uses in society, computer games, computing industry, science, engineering, and the internet. The text teaches students about designing and using algorithms, illustrating connections between topics being taught and their potential applications, increasing engagement.

Intelligent Cyber Physical Systems and Internet of Things Apr 15 2022 This book highlights the potential research areas of Information and Communication Technologies (ICT), such as the research in the field of modern computing and communication technologies that deal with different aspects of data analysis and network connectivity to develop solution for the emerging real-time information system challenges; contains a brief discussion about the progression from information systems to intelligent information systems, development of autonomous systems, real-time implementation of Internet of Things (IoT) and Cyber Physical Systems (CPS), fundamentals of intelligent information systems and analytical activities; helps to gain a significant research knowledge on modern communication technologies from the novel research

contributions dealing with different aspects of communication systems, which showcase effective technological solutions that can be used for the implementation of novel distributed wireless communication systems. The individual chapters included in this book will provide a valuable resource for the researchers, scientists, scholars, and research enthusiasts, who have more interest in Information and Communication Technologies (ICT). Encompassing the contributions of professors and researchers from Indian and other foreign universities, this book will be of interest to students, researchers, and practitioners, as well as members of the general public interested in the realm of Internet of Things (IoT) and Cyber Physical Systems (CPS).

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