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Energy Efficient Mechanism for Detection of Wormhole Attacks



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Energy Efficient Mechanism For Detection Of Wormhole Attacks

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Energy Efficient Mechanism For Detection Of Wormhole Attacks:

Energy Efficient Mechanism for Detection of Wormhole Attacks Sushant Sudhakar Bahekar, Prashant Panse, 2014-11-18

This book is beneficial for those researchers who are working on Network Security specially in Ad Hoc Network Security. In Network security concern, there are various types of attacks; one of them is Wormhole attack. Wormhole attack on Ad Hoc Network is a serious issue in network security concern. There are so many techniques discovered to find such kind of attacks, but each has pros and cons. In this technique, detection of Wormhole attack is done by the Energy Efficient Transmission Time Mechanism. Energy Efficient Transmission Time Mechanism leads to discover drastically changes results than other techniques to detect wormhole attacks. Researchers may adopt this technique for other Routing Protocol for Network security issues.

Inventive Systems and Control V. Suma, Pascal Lorenz, Zubair Baig, 2023-06-14 This book presents selected papers from the 7th International Conference on Inventive Systems and Control ICISC 2023 held on January 30-31, 2023 at JCT College of Engineering and Technology Coimbatore, India. The conference proceedings of ICISC 2023 include an analysis of the class of intelligent systems and control techniques that utilize various artificial intelligence technologies where there are no mathematical models and system available to make them remain controlled. Inspired by various existing intelligent techniques, the primary goal of ICISC 2023 proceedings is to present the emerging innovative models to tackle the challenges faced by the existing computing and communication technologies.

International Conference on Innovative Computing and Communications Ashish Khanna, Deepak Gupta, Siddhartha Bhattacharyya, Aboul Ella Hassanien, Sameer Anand, Ajay Jaiswal, 2021-08-28 This book includes high quality research papers presented at the Fourth International Conference on Innovative Computing and Communication ICICC 2021 which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India on February 20-21, 2021. Introducing the innovative works of scientists, professors, research scholars, students, and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real time applications.

Advances in Network Security and Applications David C. Wyld, Michal Wozniak, Nabendu Chaki, Natarajan Meghanathan, Dhinaharan Nagamalai, 2011-06-30 This book constitutes the proceedings of the 4th International Conference on Network Security and Applications held in Chennai, India in July 2011. The 63 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers address all technical and practical aspects of security and its applications for wired and wireless networks and are organized in topical sections on network security and applications, ad hoc sensor and ubiquitous computing, as well as peer-to-peer networks and trust management.

Security and Resilience in Intelligent Data-Centric Systems and Communication Networks Massimo Ficco, Francesco Palmieri, 2017-09-29 Security and Resilience in Intelligent Data Centric Systems and Communication Networks presents current state of the art work on novel research in theoretical and practical resilience and security aspects of intelligent data

centric critical systems and networks The book analyzes concepts and technologies that are successfully used in the implementation of intelligent data centric critical systems and communication networks also touching on future developments In addition readers will find in demand information for domain experts and developers who want to understand and realize the aspects opportunities and challenges of using emerging technologies for designing and developing more secure and resilient intelligent data centric critical systems and communication networks Topics covered include airports seaports rail transport systems plants for the provision of water and energy and business transactional systems The book is well suited for researchers and PhD interested in the use of security and resilient computing technologies Includes tools and techniques to prevent and avoid both accidental and malicious behaviors Explains the state of the art technological solutions for main issues hindering the development of monitoring and reaction solutions Describes new methods and technologies advanced prototypes systems tools and techniques of future direction

Mobile, Wireless and Sensor Networks Amine Dahane,Nasr-Eddine Berrached,2019-07-01 Wireless networking covers a variety of topics involving many challenges The main concern of clustering approaches for mobile wireless sensor networks WSNs is to prolong the battery life of the individual sensors and the network lifetime For a successful clustering approach the need of a powerful mechanism to safely elect a cluster head remains a challenging task in many research works that take into account the mobility of the network In *Mobile Wireless and Sensor Networks A Clustering Algorithm for Energy Efficiency and Safety* the authors use an approach based on computing of the weight of each node in the network as the proposed technique to deal with this problem They present a virtual laboratory platform VLP of baptized mercury allowing students and researchers to make practical work PW on different aspects of mobile wireless sensor networks The authors choice of WSNs is motivated mainly by the use of real experiments needed in most college courses on WSNs These usual experiments however require an expensive investment and many nodes in the classroom The platform presented here aims at showing the feasibility the flexibility and the reduced cost using the authors approach The authors demonstrate the performance of the proposed algorithms that contribute to the familiarization of the learners in the field of WSNs The book will be a valuable resource for students in networking studies as well as for faculty and researchers in this area

Intrusion Detection and Prevention for Mobile Ecosystems Georgios Kambourakis,Asaf Shabtai,Constantinos Kolias,Dimitrios Damopoulos,2017-09-06 This book presents state of the art contributions from both scientists and practitioners working in intrusion detection and prevention for mobile networks services and devices It covers fundamental theory techniques applications as well as practical experiences concerning intrusion detection and prevention for the mobile ecosystem It also includes surveys simulations practical results and case studies

Network Security Attacks and Countermeasures G., Dileep Kumar,Singh, Manoj Kumar,Jayanthi, M.K.,2016-01-18 Our world is increasingly driven by sophisticated networks of advanced computing technology and the basic operation of everyday society is becoming increasingly vulnerable to those networks shortcomings The implementation and

upkeep of a strong network defense is a substantial challenge beset not only by economic disincentives but also by an inherent logistical bias that grants advantage to attackers Network Security Attacks and Countermeasures discusses the security and optimization of computer networks for use in a variety of disciplines and fields Touching on such matters as mobile and VPN security IP spoofing and intrusion detection this edited collection emboldens the efforts of researchers academics and network administrators working in both the public and private sectors This edited compilation includes chapters covering topics such as attacks and countermeasures mobile wireless networking intrusion detection systems next generation firewalls and more

Computational Intelligence and Data Analytics Rajkumar Buyya,Susanna Munoz Hernandez,Ram Mohan Rao Kovvur,T. Hitendra Sarma,2022-09-01 The book presents high quality research papers presented at the International Conference on Computational Intelligence and Data Analytics ICCIDA 2022 organized by the Department of Information Technology Vasavi College of Engineering Hyderabad India in January 2022 ICCIDA provides an excellent platform for exchanging knowledge with the global community of scientists engineers and educators This volume covers cutting edge research in two prominent areas computational intelligence and data analytics and allied research areas

Wireless Networks and Security Shafiullah Khan,Al-Sakib Khan Pathan,2013-01-26 Wireless Networks and Security provides a broad coverage of wireless security issues including cryptographic coprocessors encryption authentication key management attacks and countermeasures secure routing secure medium access control intrusion detection epidemics security performance analysis security issues in applications The contributions identify various vulnerabilities in the physical layer MAC layer network layer transport layer and application layer and focus on ways of strengthening security mechanisms and services throughout the layers This carefully edited monograph is targeting for researchers post graduate students in universities academics and industry practitioners or professionals

Inventive Computation Technologies S. Smys,Robert Bestak,Álvaro Rocha,2019-11-02 With the intriguing development of technologies in several industries along with the advent of ubiquitous computational resources there are now ample opportunities to develop innovative computational technologies in order to solve a wide range of issues concerning uncertainty imprecision and vagueness in various real life problems The challenge of blending modern computational techniques with traditional computing methods has inspired researchers and academics alike to focus on developing innovative computational techniques In the near future computational techniques may provide vital solutions by effectively using evolving technologies such as computer vision natural language processing deep learning machine learning scientific computing and computational vision A vast number of intelligent computational algorithms are emerging along with increasing computational power which has significantly expanded the potential for developing intelligent applications These proceedings of the International Conference on Inventive Computation Technologies ICICT 2019 cover innovative computing applications in the areas of data mining big data processing information management and security

Communication and Networking Dominik Slezak,Thanos

Vasilakos, MingChu Li, Kouichi Sakurai, 2009-11-24 As future generation information technology FGIT becomes specialized and fragmented it is easy to lose sight that many topics in FGIT have common threads and because of this advances in one discipline may be transmitted to others Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole Of particular interest are hybrid solutions that combine ideas taken from multiple disciplines in order to achieve something more significant than the sum of the individual parts Through such hybrid philosophy a new principle can be discovered which has the propensity to propagate throughout multifaceted disciplines FGIT 2009 was the first mega conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT conducted by separate scientific committees but coordinated in order to expose the most important contributions It included the following international conferences Advanced Software Engineering and Its Applications ASEA Bio Science and Bio Technology BSBT Control and Automation CA Database Theory and Application DTA Disaster Recovery and Business Continuity DRBC published independently Future Generation Communication and Networking FGCN that was combined with Advanced Communication and Networking ACN Grid and Distributed Computing GDC Multimedia Computer Graphics and Broadcasting MulGraB Security Technology SecTech Signal Processing Image Processing and Pattern Recognition SIP and e Service Science and Technology UNESST Industrial Internet of Things and Cyber-Physical Systems: Transforming the Conventional to Digital Kumar, Pardeep, Ponnusamy, Vasaki, Jain, Vishal, 2020-05-22 With the help of artificial intelligence machine learning and big data analytics the internet of things IoT is creating partnerships within industry where machines processes and humans communicate with one another As this radically changes traditional industrial operations this results in the rapid design cheap manufacture and effective customization of products Answering the growing demand of customers and their preferences has become a challenge for such partnerships Industrial Internet of Things and Cyber Physical Systems Transforming the Conventional to Digital is a collection of innovative research that discusses development implementation and business impacts of IoT technologies on sustainable societal development and improved life quality Highlighting a wide range of topics such as green technologies wireless networks and IoT policy this book is ideally designed for technology developers entrepreneurs industrialists programmers engineers technicians researchers academicians and students **IoT Applications, Security Threats, and Countermeasures** Padmalaya Nayak, Niranjana Ray, P. Ravichandran, 2021-09-02 The book explores modern sensor technologies while also discussing security issues which is the dominant factor for many types of Internet of Things IoT applications It also covers recent IoT applications such as the Markovian Arrival Process fog computing real time solar energy monitoring healthcare and agriculture Fundamental concepts of gathering processing and analyzing different Artificial Intelligence AI models in IoT applications are covered along with recent detection mechanisms for different types of attacks for effective network communication On par with the standards laid out by international organizations in related

fields the book focuses on both core concepts of IoT along with major application areas Designed for technical developers academicians data scientists industrial researchers professionals and students this book is useful in uncovering the latest innovations in the field of IoT

Ubiquitous Convergence Technology Frank Stajano, 2007-04-24 This book constitutes the thoroughly refereed postproceedings of the First International Conference on Ubiquitous Convergence Technology ICUCT 2006 held in Jeju Island Korea in December 2006 The 29 revised full papers presented together with one keynote paper cover multimedia applications mobile wireless and ad hoc networking smart sensors and sensor networks privacy and security as well as Web based simulation for natural systems

International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI-2023) Debasis Chaudhuri, Jan Harm Pretorius, Debashis Das, Sauvik Bal, 2024-05-23 The International Conference on Security Surveillance Artificial Intelligence ICSSAI2023 was held in West Bengal India during December 1 2 2023 The conference was organized by the Techno India University one of the renowned universities in the state of West Bengal which is committed for generating disseminating and preserving knowledge

Intelligent Computing and Communication Techniques Arvind Dagur, Karan Singh, Pawan Singh Mehra, Dharendra Kumar Shukla, 2025-06-10 This book contains a prolific compilation of research papers presented at the International Conference on Intelligent Computing and Communication Techniques ICICCT 2024 Some of its key features include In depth coverage of artificial intelligence blockchain and their role in enhancing smart living and security with a focus on intelligent computing Depiction of detailed system models and architecture to illustrate the practical applications of AI Discussion on the role of AI and blockchain in banking healthcare navigation communication security etc Analysis of the challenges and opportunities presented by intelligent computing communication techniques and blockchain in healthcare education banking and related industries It is designed for academics researchers students and professionals seeking to expand their knowledge and engage with current research on artificial intelligence secure transactions real time monitoring and security

Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing Management Association, Information Resources, 2021-01-25 Distributed systems intertwine with our everyday lives The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices With the rise of large scale IoT and similar distributed systems cloud bursting technologies and partial outsourcing solutions private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users The Research Anthology on Architectures Frameworks and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems Highlighting a range of topics such as data sharing wireless sensor networks and scalability this multi volume book is ideally designed for

system administrators integrators designers developers researchers academicians and students Futuristic Trends in Network and Communication Technologies Pradeep Kumar Singh, Gennady Veselov, Anton Pljonkin, Yugal Kumar, Marcin Paprzycki, Yuri Zachinyaev, 2021-03-30 This two volume set CCIS 1395 1396 constitutes the refereed proceedings of the Third International Conference on Futuristic Trends in Network and Communication Technologies FTNCT 2020 held in Taganrog Russia in October 2020 The 80 revised papers presented were carefully reviewed and selected from 291 submissions The prime aim of the conference is to invite researchers from different domains of network and communication technologies to a single platform to showcase their research ideas The selected papers are organized in topical sections on communication technologies security and privacy futuristic computing technologies network and computing technologies wireless networks and Internet of Things IoT Machine-to-Machine Communications Vojislav B. Misic, Jelena Misic, 2014-06-25 With the number of machine to machine M2M enabled devices projected to reach 20 to 50 billion by 2020 there is a critical need to understand the demands imposed by such systems Machine to Machine Communications Architectures Technology Standards and Applications offers rigorous treatment of the many facets of M2M communication including its integration with current technology Presenting the work of a different group of international experts in each chapter the book begins by supplying an overview of M2M technology It considers proposed standards cutting edge applications architectures and traffic modeling and includes case studies that highlight the differences between traditional and M2M communications technology Details a practical scheme for the forward error correction code design Investigates the effectiveness of the IEEE 802 15 4 low data rate wireless personal area network standard for use in M2M communications Identifies algorithms that will ensure functionality performance reliability and security of M2M systems Illustrates the relationship between M2M systems and the smart power grid Presents techniques to ensure integration with and adaptation of existing communication systems to carry M2M traffic Providing authoritative insights into the technologies that enable M2M communications the book discusses the challenges posed by the use of M2M communications in the smart grid from the aspect of security and proposes an efficient intrusion detection system to deal with a number of possible attacks After reading this book you will develop the understanding required to solve problems related to the design deployment and operation of M2M communications networks and systems

The Top Books of the Year Energy Efficient Mechanism For Detection Of Wormhole Attacks The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. Energy Efficient Mechanism For Detection Of Wormhole Attacks : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Energy Efficient Mechanism For Detection Of Wormhole Attacks : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://staging.conocer.cide.edu/data/detail/index.jsp/Ethics%20Of%20Tibet%20Bodhisattva%20Section%20Of%20Tsongkhapa%20Lam.pdf>

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