Black Hole Attack

Shailesh Tiwari,Munesh C. Trivedi,Krishn K. Mishra,A. K. Misra,Khedo Kavi Kumar

A Study of Black Hole Attack Solutions Elahe Fazeldehkordi,Iraj Sadegh Amiri,Oluwatobi Ayodeji Akanbi,2015-11-03 Mobile Ad Hoc Networks (MANETs) are a popular form of network for data transfer due to the fact that they are dynamic, require no fixed infrastructure, and are scalable. However, MANETs are particularly susceptible to several different types of widely perpetrated cyberattack. One of the most common hacks aimed at MANETs is the Black Hole attack, in which a particular node within the network displays itself as having the shortest path for the node whose packets it wants to intercept. Once the packets are drawn to the Black Hole, they are then dropped instead of relayed, and the communication of the MANET is thereby disrupted, without knowledge of the other nodes in the network. Due to the sophistication of the Black Hole attack, there has been a lot of research conducted on how to detect it and prevent it. The authors of this short format title provide their research results on providing an effective solution to Black Hole attacks, including introduction of new MANET routing protocols that can be implemented in order to improve detection accuracy and network parameters such as total dropped packets, end-to-end delay, packet delivery ratio, and routing request overhead. Elaborates on the basics of wireless networks, MANETs Explains the significance behind the need of wireless networks and MANET security Understand MANET routing protocols, namely the ADOV method

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Information Processing and Management Vinu V Das,R. Vijayakumar,Narayan C. Debnath,Janahanlal Stephen,Natarajan Meghanathan,Suresh Sankaranarayanan,P.M. Thankachan,Ford Lumban Gaol,Nessy

Thankachan,2010-04-03 It is my pleasure to write the preface for Information Processing and Management. This book aims to bring together innovative results and new research trends in inf- mation processing, computer science and management engineering. If an information processing system is able to perform useful actions for an obj- tive in a given domain, it is because the system knows something about that domain. The more knowledge it has, the more useful it can be to its users. Without that kno- edge, the system itself is useless. In the information systems field, there is conceptual modeling for the activity that elicits and describes the general knowledge a particular information system needs to know. The main objective of conceptual modeling is to obtain that description, which is called a conceptual schema. Conceptual schemas are written in languages called conceptual modeling languages. Conceptual modeling is an important part of requi- ments engineering, the first and most important phase in the development of an inf- mation system.

Deep Learning Strategies for Security Enhancement in Wireless Sensor Networks Sagayam, K. Martin,Bhushan, Bharat,Andrushia, A. Diana,Albuquerque, Victor Hugo C. de,2020-06-12 Wireless sensor networks have gained significant attention industrially and academically due to their wide range of uses in various fields. Because of their vast amount of applications, wireless sensor networks are vulnerable to a variety of security attacks. The protection of wireless sensor networks remains a challenge due to their resource-constrained nature, which is why researchers have begun applying several branches of artificial intelligence to advance the security of these networks. Research is needed on the development of security practices in wireless sensor networks by using smart technologies. Deep Learning Strategies for Security

Enhancement in Wireless Sensor Networks provides emerging research exploring the theoretical and practical advancements of security protocols in wireless sensor networks using artificial intelligence-based techniques. Featuring coverage on a broad range of topics such as clustering protocols, intrusion detection, and energy harvesting, this book is ideally designed for researchers, developers, IT professionals, educators, policymakers, practitioners, scientists, theorists, engineers, academicians, and students seeking current research on integrating intelligent techniques into sensor networks for more reliable security practices.

Black Hole Attack in Manet Deepak Sharma,2019-03-10 Black hole attack is the famous security attack in which an intruder node come in a network and behaves as friend node to steal sensitive data. In this book a complete solution to the black hole problem is discussed and implemeted in network simulator -2. This book is targeted for all those who wants to work in MANET, BLACK HOLE, NETWORK SIMULATOR-2, COMPUTER NETWORKS and many more.

Believing Bullshit Stephen Law,2011-04-01 This book identifies eight key mechanisms that can transform a set of ideas into a psychological flytrap. The author suggests that, like the black holes of outer space, from which nothing, not even light, can escape, our contemporary cultural landscape contains numerous intellectual black-holes—belief systems constructed in such a way that unwary passers-by can similarly find themselves drawn in. While such self-sealing bubbles of belief will most easily trap the gullible or poorly educated, even the most intelligent and educated of us are potentially vulnerable. Some of the world's greatest thinkers have fallen in, never to escape. This witty, insightful critique will help immunize readers against the wiles of cultists, religious and political zealots, conspiracy theorists, promoters

of flaky alternative medicines, and others by clearly setting out the tricks of the trade by which such insidious belief systems are created and maintained.

Death By Black Hole Neil deGrasse Tyson,2007-01-16 A collection of essays on the cosmos, written by an American Museum of Natural History astrophysicist, includes Holy Wars, Ends of the World, and Hollywood Nights.

The Black Hole in Isaiah Frederik Poulsen,2019-01-04 Isaiah is strangely silent on the destruction of Jerusalem and the people's deportation to Babylon in the early sixth century BCE. Frederik Poulsen demonstrates that the exile hides itself as a black hole at the center of the composition and thereby has a decisive influence on the literary structure, poetic imagery, and theological message of this prophetic book.

Comparative Study of Multiple Black Hole Attacks Solution Methods in Manet Using Aodv Routing Protocol E. Fazeldehkordi,I. S. Amiri,Akanbi O. a.,2014-07-09 Mobile Wireless Ad Hoc Networks (MANET) is non-centralized wireless networks that can be formulated without the need for any pre-existing infrastructure in which each node can act as a router. It must discover its local neighbours and through them it will communicate to nodes that are out of its transmission range. Various features like open medium, dynamic topology, lack of clear lines of defence, makes MANET vulnerable to security attacks. Ad hoc On-demand Distance Vector routing (AODV) is one of the best and popular routing algorithms. AODV is severely affected by well-known black hole attack in which a malicious node injects a faked route reply message that it has a fresh route to destination. In this book, MANET performance against single black hole attack has compared with its performance against multiple black hole attacks by using Intrusion

Detection System (IDSAODV) routing protocol (Dokurer, 2006). The result are analysed using NS-2.35, through various network parameter bases: total drop packets, end to end delay, packet delivery ratio and routing request overhead. The results indicate IDSAODV solution method which is presented for single black hole attack before, can be used effectively for decreasing total drop packets and improving packet delivery ratio against multiple black hole attacks, also. But, the method doesn't have significant effect for improving end to end delay and routing request overhead.

International Conference on Advanced Computing Networking and Informatics Raj Kamal,Michael Henshaw,Pramod S. Nair,2018-11-27 The book comprises selected papers presented at the International Conference on Advanced Computing, Networking and Informatics (ICANI 2018), organized by Medi-Caps University, India. It includes novel and original research work on advanced computing, networking and informatics, and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques in the field of computing and networking.

Advances in Computer and Computational Sciences Sanjiv K. Bhatia,Krishn K. Mishra,Shailesh Tiwari,Vivek Kumar Singh,2017-05-25 Exchange of information and innovative ideas are necessary to accelerate the development of technology. With advent of technology, intelligent and soft computing techniques came into existence with a wide scope of implementation in engineering sciences. Keeping this ideology in preference, this book includes the insights that reflect the 'Advances in Computer and Computational Sciences' from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of 'International Conference on Computer, Communication and

Computational Sciences (ICCCCS 2016), held during 12-13 August, 2016 in Ajmer, India. These papers are arranged in the form of chapters. The content of the book is divided into two volumes that cover variety of topics such as intelligent hardware and software design, advanced communications, power and energy optimization, intelligent techniques used in internet of things, intelligent image processing, advanced software engineering, evolutionary and soft computing, security and many more. This book helps the perspective readers' from computer industry and academia to derive the advances of next generation computer and communication technology and shape them into real life applications.

Smart Innovations in Communication and Computational Sciences Shailesh Tiwari,Munesh C. Trivedi,Krishn K. Mishra,A. K. Misra,Khedo Kavi Kumar,2018-11-19 The book presents the latest advances and research findings in the fields of computational science and communication. The areas covered include smart innovation; systems and technologies; embedded knowledge and intelligence; innovation and sustainability; advanced computing; and networking and informatics. It also focuses on the knowledge-transfer methodologies and the innovation strategies employed to make these effective. This fascinating compilation appeals to researchers, academics and engineers around the globe.

High Performance Vision Intelligence Aparajita Nanda,Nisha Chaurasia,2020-09-26 This book focuses on the challenges and the recent findings in vision intelligence incorporating high performance computing applications. The contents provide in-depth discussions on a range of emerging multidisciplinary topics like computer vision, image processing, artificial intelligence, machine learning, cloud computing, IoT, and big data. The book also includes illustrations of algorithms, architecture, applications, software systems, and data

analytics within the scope of the discussed topics. This book will help students, researchers, and technology professionals discover latest trends in the fields of computer vision and artificial intelligence.

Research in Intelligent and Computing in Engineering Raghvendra Kumar,Nguyen Ho Quang,Vijender Kumar Solanki,Manuel Cardona,Prasant Kumar Pattnaik,2021-01-04 This book comprises select peer-reviewed proceedings of the international conference on Research in Intelligent and Computing in Engineering (RICE 2020) held at Thu Dau Mot University, Vietnam. The volume primarily focuses on latest research and advances in various computing models such as centralized, distributed, cluster, grid, and cloud computing. Practical examples and real-life applications of wireless sensor networks, mobile ad hoc networks, and internet of things, data mining and machine learning are also covered in the book. The contents aim to enable researchers and professionals to tackle the rapidly growing needs of network applications and the various complexities associated with them.

2021 2nd Global Conference for Advancement in Technology (GCAT) IEEE Staff,2021-10 Power, Energy and Power Electronics (PEPE),Signal and Image Processing (SIP),Communication Systems (CS),Computational Intelligence (CI),Biomedical Devices & Application (BDA),Transportation Technologies (TT),Information Systems and Technologies (IST),Embedded & VLSI (EVL) and other topics related with Computer Information Technology Electrical Electronics Communication Engineering

Computational Advancement in Communication Circuits and Systems Koushik Maharatna,Maitreyi Ray Kanjilal,Sukumar Chandra Konar,Sumit Nandi,Kunal Das,2019-07-25 This book gathers the proceedings of the International Conference on Computational Advancement in Communication Circuits

and Systems (ICCACCS 2018), which was organized by Narula Institute of Technology under the patronage of the JIS group, affiliated with West Bengal University of Technology. The book presents peer-reviewed papers that highlight new theoretical and experimental findings in the fields of electronics and communication engineering, including interdisciplinary areas like Advanced Computing, Pattern Recognition and Analysis, and Signal and Image Processing. The respective papers cover a broad range of principles, techniques and applications in microwave devices, communication and networking, signal and image processing, computations and mathematics, and control. The proceedings reflect the conference's strong emphasis on methodological approaches, and focus on applications within the domain of Computational Advancement in Communication Circuits and Systems. They also address emerging technologies in electronics and communication, together with the latest practices, issues and trends.

Hybrid Intelligent Systems Ajith Abraham,Shishir K. Shandilya,Laura Garcia-Hernandez,Maria Leonilde Varela,2020-08-12 This book highlights the recent research on hybrid intelligent systems and their various practical applications. It presents 34 selected papers from the 18th International Conference on Hybrid Intelligent Systems (HIS 2019) and 9 papers from the 15th International Conference on Information Assurance and Security (IAS 2019), which was held at VIT Bhopal University, India, from December 10 to 12, 2019. A premier conference in the field of artificial intelligence, HIS - IAS 2019 brought together researchers, engineers and practitioners whose work involves intelligent systems, network security and their applications in industry. Including contributions by authors from 20 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of Computer Science

and Engineering.

A Black Hole is Not a Hole Carolyn Cinami DeCristofano,2021-09-07 A black hole isn't really a hole . . . is it? Get ready to S-T-R-E-T-C-H your mind with this beloved and best-selling science book. Updated with an all-new chapter about the first black-hole image ever! What are black holes, what causes them, and how the heck did scientists discover them? Acclaimed STEM writer Carolyn DeCristofano's playful text shares how astronomers find black holes, introduces our nearest black-hole neighbors, and provides an excellent introduction to an extremely complex scientific topic. Gorgeous space paintings supplement real telescopic images, and funny doodles and speech bubbles keep the content light and fun.

Soft Computing Techniques and Applications Samarjeet Borah,Ratika Pradhan,Nilanjan Dey,Phalguni Gupta,2020-11-27 Focusing on soft computing techniques and application in various engineering research domains, this book presents the state-of-the-art outcomes from ongoing research works being conducted in various research laboratories and educational institutions. The included research works deal with estimated models and give resolutions to complex real-life issues. In the field of evolutionary computing and other domains of applications, such as, data mining and fuzzy logic, soft computing techniques play an incomparable role, where it successfully handles contemporary computationally intensive and complex problems that have usually appeared to be inflexible to traditional mathematical methods. Comprising the concepts and applications of soft computing with other emerging research domains, this book cherishes varieties of modern applications in the fields of natural language processing, image processing, biomedical engineering, communication, control systems, circuit design etc.

Modeling and Simulation of Computer Networks and Systems Mohammad S. Obaidat,Faouzi Zarai,Petros Nicopolitidis,2015-04-21 Modeling and Simulation of Computer Networks and Systems: Methodologies and Applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems. It focuses on the theories, tools, applications and uses of modeling and simulation in order to effectively optimize networks. It describes methodologies for modeling and simulation of new generations of wireless and mobiles networks and cloud and grid computing systems. Drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry, discuss: Important and emerging topics in computer networks and systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Methodologies, strategies and tools, and strategies needed to build computer networks and systems modeling and simulation from the bottom up Different network performance metrics including, mobility, congestion, quality of service, security and more... Modeling and Simulation of Computer Networks and Systems is a must have resource for network architects, engineers and researchers who want to gain insight into optimizing network performance through the use of modeling and simulation. Discusses important and emerging topics in computer networks and Systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Provides the necessary methodologies, strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up Includes comprehensive review and evaluation of simulation

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