



Gulshan Kumar

Effective Intrusion Detection using Genetic Algorithms

A Nature Inspired Technique



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Effective Intrusion Detection Using Genetic Algorithms A Nature Inspired Technique

Manju Mohan Pillay



Effective Intrusion Detection Using Genetic Algorithms A Nature Inspired Technique:

Effective Intrusion Detection Using Genetic Algorithms Gulshan Kumar, 2014-11-18 Nowadays the Internet touched every facet of modern life in terms of its usage and resources Most of information based organizations like business organizations governments and educational institutions are using the abilities of the Internet such as the ability to publish and communicate information with others Thus dependence on the information based organizations over the Internet is increasing day by day However most of the popular software contains flaws which are not only technically difficult but also economically costly to be solved These vulnerabilities and easy access to Internet resources are exploited by the intruders to misuse the Internet resources and launch in unctional attacks against them In this case the detection of intrusions is very significant Nature Inspired techniques especially Genetic Algorithms have proved to be a promising direction for effective intrusion detection

Nature-inspired Metaheuristic Algorithms Sulabh Bansal, Aprna Tripathi, Shilpa Srivastava, Prem Prakash Vuppuluri, 2025-06-10 This comprehensive text provides practical guidance for implementing nature inspired algorithms and metaheuristics in real life scenarios to solve complex optimization problems It further demonstrates how nature inspired metaheuristic algorithms have the potential to contribute to multiple United Nations sustainable development goals such as climate action clean energy and sustainable cities This book Discusses load balancing and demand response using nature inspired optimization techniques Presents energy efficient routing and scheduling energy management and optimization using metaheuristic algorithms Covers disease diagnosis and prognosis using metaheuristic algorithms drug discovery and development using nature inspired optimization techniques Explains waste reduction and recycling image processing and computer vision using nature inspired optimization techniques Illustrates medical image analysis and segmentation using Ant Colony optimization and Particle Swarm optimization techniques Nature inspired Metaheuristic Algorithms is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering computer engineering and information technology

Comprehensive Metaheuristics Ali Mirjalili, Amir Hossein Gandomi, 2023-01-31 Comprehensive Metaheuristics Algorithms and Applications presents the foundational underpinnings of metaheuristics and a broad scope of algorithms and real world applications across a variety of research fields The book starts with fundamentals mathematical prerequisites and conceptual approaches to provide readers with a solid foundation After presenting multi objective optimization constrained optimization and problem formation for metaheuristics world renowned authors give readers in depth understanding of the full spectrum of algorithms and techniques Scientists researchers academicians and practitioners who are interested in optimizing a process or procedure to achieve a goal will benefit from the case studies of real world applications from different domains The book takes a much needed holistic approach putting the most widely used metaheuristic algorithms together with an in depth treatise on multi disciplinary applications of metaheuristics Each algorithm is thoroughly analyzed to observe its behavior

providing a detailed tutorial on how to solve problems using metaheuristics New case studies and research problem statements are also discussed which will help researchers in their application of the concepts Presented by world renowned researchers and practitioners in metaheuristics Includes techniques algorithms and applications based on real world case studies Presents the methodology for formulating optimization problems for metaheuristics Provides readers with methods for analyzing and tuning the performance of a metaheuristic as well as for integrating metaheuristics in other AI techniques Features online complementary source code from the applications and algorithms *Optimizing Solutions for Real-Life Problems* Nilanjan Dey, 2025-06-20 This book explores various optimization techniques that can be used to address problems in the real world These problems can be found in healthcare engineering manufacturing and many other fields In many real world situations from business to science optimization techniques are similar to problem solving tools They help us make the best choices by considering limitations constraints and what we are trying to achieve objectives These techniques sift through all the possibilities and find the most effective option Optimization is similar to a toolbox filled with different problem solving methods such as linear programming or genetic algorithms These tools help us make better decisions about allocating resources across many different fields They do this by finding the most efficient and effective solutions considering all the limitations and goals involved Network Anomaly Detection Dhruva Kumar Bhattacharyya, Jugal Kumar Kalita, 2013-06-18 With the rapid rise in the ubiquity and sophistication of Internet technology and the accompanying growth in the number of network attacks network intrusion detection has become increasingly important Anomaly based network intrusion detection refers to finding exceptional or nonconforming patterns in network traffic data compared to normal behavior Finding these anomalies has extensive applications in areas such as cyber security credit card and insurance fraud detection and military surveillance for enemy activities Network Anomaly Detection A Machine Learning Perspective presents machine learning techniques in depth to help you more effectively detect and counter network intrusion In this book you ll learn about Network anomalies and vulnerabilities at various layers The pros and cons of various machine learning techniques and algorithms A taxonomy of attacks based on their characteristics and behavior Feature selection algorithms How to assess the accuracy performance completeness timeliness stability interoperability reliability and other dynamic aspects of a network anomaly detection system Practical tools for launching attacks capturing packet or flow traffic extracting features detecting attacks and evaluating detection performance Important unresolved issues and research challenges that need to be overcome to provide better protection for networks Examining numerous attacks in detail the authors look at the tools that intruders use and show how to use this knowledge to protect networks The book also provides material for hands on development so that you can code on a testbed to implement detection methods toward the development of your own intrusion detection system It offers a thorough introduction to the state of the art in network anomaly detection using machine learning approaches and systems Mobile Computing and Sustainable Informatics

Subarna Shakya, Klimis Ntalianis, Khaled A. Kamel, 2022-07-15 This book gathers selected high quality research papers presented at International Conference on Mobile Computing and Sustainable Informatics ICMCSI 2022 organized by Pulchowk Campus Institute of Engineering Tribhuvan University Nepal during 27 28 January 2022 The book discusses recent developments in mobile communication technologies ranging from mobile edge computing devices to personalized embedded and sustainable applications The book covers vital topics like mobile networks computing models algorithms sustainable models and advanced informatics that supports the symbiosis of mobile computing and sustainable informatics

Computer and Information Sciences - ISCIS ..., 2005 **Proceedings of the ACM Workshop on Survivable and Self-Regenerative Systems** Peng Liu, Partha Pal, 2003 **Proceedings of the ACM Workshop on Survivable and Self-Regenerative Systems**, 2003 **Intrusion Detection** Nandita Sengupta, Jaya Sil, 2020-01-24 This book presents state of the art research on intrusion detection using reinforcement learning fuzzy and rough set theories and genetic algorithm Reinforcement learning is employed to incrementally learn the computer network behavior while rough and fuzzy sets are utilized to handle the uncertainty involved in the detection of traffic anomaly to secure data resources from possible attack Genetic algorithms make it possible to optimally select the network traffic parameters to reduce the risk of network intrusion The book is unique in terms of its content organization and writing style Primarily intended for graduate electrical and computer engineering students it is also useful for doctoral students pursuing research in intrusion detection and practitioners interested in network security and administration The book covers a wide range of applications from general computer security to server network and cloud security *Nature-Inspired Cyber Security and Resiliency* El-Sayed M. El-Alfy, Mohamed Eltoweissy, Errin W. Fulp, Wojciech Mazurczyk, 2019-04-09 With the rapid evolution of cyberspace computing communications and sensing technologies organizations and individuals rely more and more on new applications such as fog and cloud computing smart cities Internet of Things IoT collaborative computing and virtual and mixed reality environments Maintaining their security trustworthiness and resilience to cyber attacks has become crucial which requires innovative and creative cyber security and resiliency solutions Computing algorithms have been developed to mimic the operation of natural processes phenomena and organisms such as artificial neural networks swarm intelligence deep learning systems biomimicry and more The amazing characteristics of these systems offer a plethora of novel methodologies and opportunities to cope with emerging cyber challenges *Swarm Intelligence and Bio-Inspired Computation* Priti Srinivas Sajja, Rajendra Akerkar, 2013-05-16 Bio inspired models have taken inspiration from the nature to solve challenging problems in an intelligent manner Major aims of such bio inspired models of computation are to propose new unconventional computing architectures and novel problem solving paradigms Computing models such as artificial neural network ANN genetic algorithm GA and swarm intelligence SI are major constituent models of the bio inspired approach Applications of these models are ubiquitous and hence proposed to be applied for Semantic Web The chapter discusses fundamentals of

these bio inspired constituents along with some heuristic that can be used to design and implement these constituents and briefly surveys recent applications of these models for the Semantic Web The study shows that the objective of the Semantic Web is better met with such approach and the Web can be accessed in more human oriented way At the end a generic framework for web content filtering based on neuro fuzzy approach is presented By considering online webpages and fuzzy user profile the proposed system classifies the webpages into vague categories using a neural network

Implementation of Genetic Algorithms Into a Network Intrusion Detection System (netGA), and Integration Into NProbe Brian Eugene Lavender, California State University, Sacramento, 2010 netGA takes networking theory and artificial intelligence theory and combines them together to form an attack detection system netGA is an implementation of the method proposed by the paper titled A Software Implementation of a Genetic Algorithm Based Approach to Network Intrusion Detection written by Ren Hui Gong and associates It also includes an implementation of the resulting rules into a Network Intrusion Detection System NIDS called nProbe The project brings together Genetic Algorithms from soft computing methods also known as Artificial Intelligence and a Network Intrusion Detection System NIDS In order to limit the project scope data developed by DARPA also used in Gong s paper is used as training data for the Genetic Algorithms The resulting tool is described and analyzed and results and sample runs are presented

Applying Genetic Algorithm Techniques in Network Intrusion Detection Systems Manju Mohan Pillay, 2011

Bio-inspired Networking Daniel Câmara, 2015-08-19 Bio inspired techniques are based on principles or models of biological systems In general natural systems present remarkable capabilities of resilience and adaptability In this book we explore how bio inspired methods can solve different problems linked to computer networks Future networks are expected to be autonomous scalable and adaptive During millions of years of evolution nature has developed a number of different systems that present these and other characteristics required for the next generation networks Indeed a series of bio inspired methods have been successfully used to solve the most diverse problems linked to computer networks This book presents some of these techniques from a theoretical and practical point of view Discusses the key concepts of bio inspired networking to aid you in finding efficient networking solutions Delivers examples of techniques both in theoretical concepts and practical applications Helps you apply nature s dynamic resource and task management to your computer networks

Evolutionary Artificial Intelligence David Asirvatham, Francisco M. Gonzalez-Longatt, Przemyslaw Falkowski-Gilski, R. Kanthavel, 2024-03-13 This book gathers a collection of selected works and new research results of scholars and graduate students presented at International Conference on Evolutionary Artificial Intelligence ICEAI 2023 held in Malaysia during 13 14 September 2023 The focus of the book is interdisciplinary in nature and includes research on all aspects of evolutionary computation to find effective solutions to a wide range of computationally difficult problems The book covers topics such as particle swarm optimization evolutionary programming genetic programming hybrid evolutionary algorithms ant colony optimization evolutionary neural networks evolutionary

reinforcement learning genetic algorithms memetic algorithms novel bio inspired algorithms evolving multi agent systems agent based evolutionary approaches and evolutionary game theory **Genetic Algorithms for Feature Selection in an Intrusion Detection Application** Fajun Shi,2000 Bio-Inspired Intelligence for Smart Decision-Making Jaganathan, Ramkumar,Mehta, Shilpa,Krishan, Ram,2024-05-14 In today s complex and fast paced world decision making is critical to problem solving across industries and academia However traditional optimization techniques often need help to cope with the challenges posed by dynamic and intricate environments This limitation hampers decision makers ability to tackle complex problems and seize opportunities effectively As such there is a pressing need for innovative approaches that can enhance decision making processes enabling individuals and organizations to navigate uncertainty and achieve optimal outcomes Bio Inspired Intelligence for Smart Decision Making offers a compelling solution to this challenge By exploring the intersection of bio inspired optimization techniques and decision making this book presents a fresh perspective that can revolutionize decisions The book introduces readers to powerful bio inspired algorithms such as genetic algorithms swarm intelligence and evolutionary strategies through a multidisciplinary lens that encompasses computer science artificial intelligence optimization and decision science These algorithms mimic natural systems efficiency and adaptability offering a robust framework for researchers graduate students and professionals who are addressing complex decision making problems in diverse fields **A GA-LR wrapper approach for feature selection in network intrusion detection** Chaouki Khammassi ,Saoussen Krichen , Intrusions constitute one of the main issues in computer network security Through malicious actions hackers can have unauthorised access that compromises the integrity the con dentiality and the availability of resources or services Intrusion detection systems IDSs have been developed to monitor and lter network activities by identifying attacks and alerting network administrators **GenAlgIDS** Coralie Marchon,2008

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