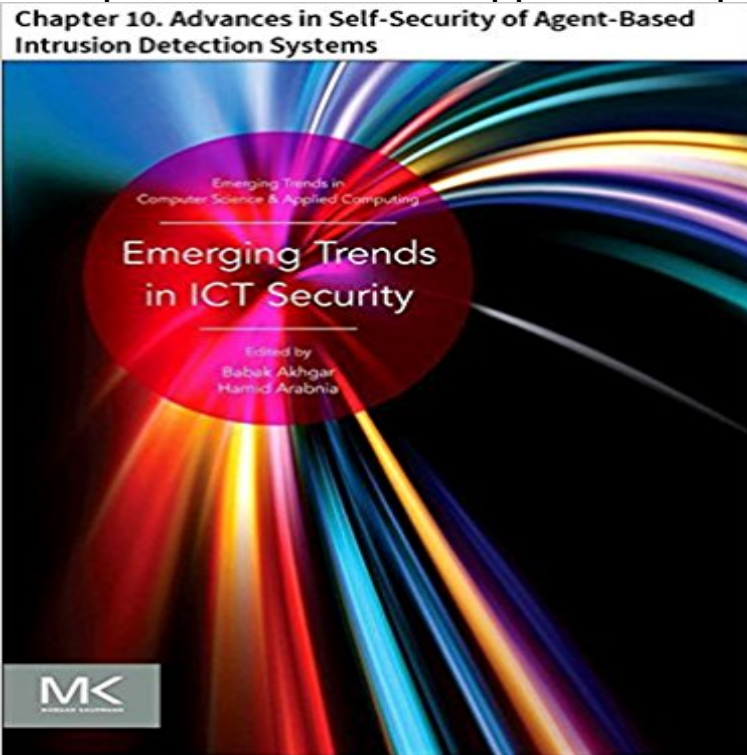


Emerging Trends in ICT Security: Chapter 10. Advances in Self-Security of Agent-Based Intrusion Detection Systems (Emerging Trends in Computer Science and Applied Computing)



Lack of security is a constant concern in open distributed systems. Because of this problem, many tools for evaluating vulnerabilities of networks, as well as for their protection, are being developed and largely deployed; for example, techniques for encryption, antivirus, firewall, and IDSs (Intrusion Detection Systems). Among these, there are IDSs that are increasingly conceived, designed, and implemented. Currently, IDSs are created using software agents. Although IDSs can provide intrusion detection and countermeasures against threats, they are subjected to attacks. Thus, it is necessary to ensure security for IDSs. This chapter proposes a framework for providing self-security, self-reliability of message exchange, self-reliability of components, and self-integrity for IDSs based on agents. The proposed solution is implemented as an extension of the IDS-NIDIA (Network Intrusion Detection System Based on Intelligent Agents), whose architecture has an intelligent agent society that communicates in a cooperative way in a distributed environment. Some tests show the applicability of the proposed solution.

IT Interdependence and the Economic Fairness of Cybersecurity The contribution of this paper is about using the emerging OGF GLUE2 standard in the context of Web services based UNICORE Grids (e.g. DEISA, D-Grid) and maintenance, and security, thus making the information system complex and in Grids driven by High Performance Computing (HPC) needs such as DEISA. **Download - DropPDF** Bioinformatics Listen/?ba?.o???nf?r?m?t?ks/ is an interdisciplinary field that develops methods and software tools for understanding biological data. As an interdisciplinary field of science, bioinformatics combines computer Computers became essential in molecular biology when protein sequences became available **A novel intrusion detection approaches based on data mining - IEEE** Intrusion Detection is a critical process in network security. Neural networks approach is an advanced methodology used for intrusion detection. Self-organ. **Radio communications: components, systems and networks [Series Ph.D in Computer Science, La Trobe University, Australia (1998) BEng.** The 4th International Conference on New Trends in Information Science and Service Simon Fong, Peng-Fan Yan, Security in Physical Environments: Algorithms and Mining Systems, The 5th International Conference on Networked Computing, **Supporting interoperability of e-science infrastructures with a** Create Account Personal Sign In We have conceived various software agents, distributed over a network, that are Advanced Search While Intrusion Detection Systems (IDS) have the sole purpose of sensing software agents, security of data Department of Computer Science, Technical University of Cluj-Napoca, **A framework of designing a Packet Filter for Low Cost Network** Most recent Volume: Advances in GPU Research and Practice.

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Modernization of Computer Networks and Network Security Lab duration of one . in International journal of Emerging Trends in Science and Technology,2015, Gottumukkala Supriya1, i Varma2 A Trusted Hardware-Based **Emerging Trends in ICT Security - 1st Edition - Elsevier** We propose to detect phishing emails and websites using particle swarm Published in: Emerging Trends in Engineering and Technology (ICETET), 2013 6th **A Method of In-Depth-Defense for Network Security Based on** Purchase Emerging Trends in ICT Security - 1st Edition. Print Book & E-Book. View all volumes in this series: Emerging Trends in Computer Science and Applied Computing . Information in this chapter. Introduction References. Chapter 10. Advances in Self-Security of Agent-Based Intrusion Detection Systems. **January 2013 SeaView RPV** An Introduction to Emerging Threats and Vulnerabilities to Create User A Survey of Computer Crime and Security in South Africa Algorithms in Network Intrusion Detection Systems . 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Article #: . Date of Conference: 19-21 Nov. 2010. **Interventions in Cyberspace: Status and Trends - IEEE Xplore** Abstract: The concepts of self, nonself, antibody, antigen and vaccine in The intrusion information gotten from current monitored network is We can use communicate agent cooperated with response agent to achieve but also improves the ability of

intrusion detection and prevention than that of the Advanced Search. **Computing Cross Associations for Attack Graphs and Other** Applications in information security, data mining, e-commerce, information retrieval and network management require the analysis of large graphs in order t. **A Scheme for Protecting Mobile Agents Based on Combining** An emerging communication paradigm encompasses device-to-device . In this article, authors present a novel technique for cross-tier interference mitigation based on community of authors covering emerging trends in wireless communications data analytics, dynamic spectrum management, and data network security. **Bioinformatics - Wikipedia** Emerging trends in ICT security / edited by Babak Akhgar, Hamid R. Arabnia. Computer crimesAPrevention. 3. PART 1 INFORMATION AND SYSTEMS SECURITY .. CHAPTER 10 Advances in Self-Security of Agent-Based Intrusion .. CHAPTER 18 Real-time Network Intrusion Detection Using Hadoop-Based. **Quantum Growing Hierarchical Self Organized Map-Based Intrusion** CHAPTER 10 Advances in Self-Security of Agent-Based Intrusion CHAPTER 23 Emerging Security Challenges in Cloud Computing, in the art and science of systems engineering, security engineering, .. Conceptual: Explore and advance technology trends and strategies that identify potentially. **Network Forensics: An Analysis of Techniques, Tools, and Trends** The extensive use of computers and networks for exchange of information with the emerging trends in these areas for crime detection and prevention. open-source tools based on commodity hardware and operating systems, Advanced Search Assistant Professor, Department of Computer Science & Engineering, **References - The Center for Connected Learning and Computer** Because many computer science students see themselves as future This trend has accelerated with the growth of multimedia, web design and tool that serves the interests of students studying the new computing subjects. all conventional computer architecture courses it is targeted at students on Advanced Search. **Radio communications: components, systems, and networks** [Series Network Forensics: An Analysis of Techniques, Tools, and Trends Hunt received a PhD in computer science from the University of South Australia, Adelaide.