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Cyber Security

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Abstract: The Internet, a loose global network of connections held networks has facilitated the transfer of data and information between many networks. information and Security concerns have grown significantly over the past few years due to the transmission of information between networks at different locations. A small number of people have also exploited the internet for illegal operations like frauds and unauthorised access to other people's networks. Cybercrimes are the name given to these illegal online actions. These days, we frequently hear the term in the news due to the rising popularity of online activities like online banking, online shopping, etc. Therefore, "Cyber Law" was developed in order to deter and punish the cybercriminals. Cyberlaw is the branch of the legal system that deals with the Internet, cyberspace, and other legal matters like online privacy or online security. It is also referred to as "law of the web". In order to provide a brief overview of what cybercrime is, the perpetrators of cybercrime hackers and crackers, various forms of cybercrimes, and the evolution of cyberlaws in India, this chapter is organised into various sections with the aims in mind. The chapter also discusses the numerous preventive measures that can be employed to stop this "hi-tech" crime in India as well as how these laws function.

Keywords: Power Factor, Power Factor Transducer, Power Quality, microcontroller (AT89S52/C51), Capacitors

REFERENCES

- [1]. Scarfone, K., & Mell, P. (2013). Cybersecurity challenges: threats, vulnerabilities, and mitigation strategies. National Institute of Standards and Technology (NIST), U.S. Department of Commerce.
- [2]. https://csrc.nist.gov/glossary/term/cybersecurity
- [3]. https://www.irjet.net/archives/V9/i8/IRJET-V9I8255.pdf
- [4]. Morris, R. T. (1988). "A Weakness in the 4.2 BSD UNIX TCP/IP Software." DOI: 10.6028/NBS.IR-4491
- [5]. Neumann, P. G. (1994). "Computer-Related Risks." Chapter 4: "CERT and the Internet." DOI: 10.5555/216585
- [6]. Singh, S. (1999). "The Code Book: The Science of Secrecy from Ancient Egypt to Quantum Cryptography."
- [7]. https://www.mcafee.com/enterprise/en-us/security-awareness/ransomware/brief-history-of-cybersecurity.html
- [8]. Harkins, J., & Bowne, A. (2002). "Planning for Y2K".
- [9]. Kaspersky, E. (2012). "Flame: The Story of the Great Cyberweapon".
- [10]. Scarf one, K., & Mell, P. (2013). "Guide to Intrusion Detection and Prevention Systems (IDPS)." NIST Special Publication 800-94
- [11]. https://www.iso.org/standard/44375.html
- [12]. https://www.enisa.europa.eu/topics/definitions-glossary
- [13]. https://nvlpubs.nist.gov/nistpubs/Legacy/SP/nistspecialpublication800-94.pdf
- [14]. https://ieeexplore.ieee.org/
- [15]. https://dl.acm.org/
- [16]. https://www.usenix.org/
- [17]. https://www.sans.org/reading-room/
- [18]. https://www.blackhat.com/
- [19]. https://www.defcon.org/
- [20]. https://ieeexplore.ieee.org/
- [21]. https://ieeexplore.ieee.org/

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- [22]. https://www.virusbulletin.com/
- [23]. https://www.usenix.org/
- [24]. https://www.malwaretech.com/2016/10/mirai-a-lurking-threat-that-surprised-the-cybersecurity-industry.html
- [25]. https://www.mcafee.com/blogs/other-blogs/mcafee-labs/lifecycle-necurs-botnet/
- [26]. https://www.trendmicro.com/vinfo/us/security/news/cybercrime-and-digital-threats/necurs-the-resilient-botnet-that-just-won-t-quit
- [27]. https://www.trendmicro.com/vinfo/us/security/news/cybercrime-and-digital-threats/zeus-gameover-prolific-banking-trojan-evolves-again
- [28]. https://www.europol.europa.eu/newsroom/news/global-avalanche-takedown-operation-disrupts-malwarenetwork
- [29]. "Phishing: A Primer of Techniques, Tactics, and Analysis" by Rohyt Belani and Nish Bhalla. In IEEE Security & Privacy, 2007.
- [30]. "A Study of Phishing Emails and Tactics: What to Look Out For" by Diana Smetters, et al. In Proceedings of the 2006 Symposium on Usable Privacy and Security (SOUPS), 2006.
- [31]. "Password Cracking Attacks and Countermeasures" by Ramakrishnan Durairajan and Charles Kanakan. In the International Journal of Computer Applications, 2011.
- [32]. https://www.mcafee.com/enterprise/en-gb/security-awareness/cyber-security/the-advantages-of-cybersecurity.html
- [33]. https://www.ibm.com/topics/cybersecurity
- $[34]. \ https://www.cisco.com/c/en/us/products/security/security-infrastructure/business-advantage-cybersecurity.html$
- [35]. https://www.symantec.com/content/dam/symantec/docs/about/annual-report-2020/symantec-2020-corporate-social-responsibility-report.pdf
- [36]. https://www.enisa.europa.eu/topics/cs-certification/certification-and-standardisation
- [37]. https://www.wipo.int/export/sites/www/sme/en/documents/ip_panorama_15_e_security.pdf
- [38]. https://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-53r5.pdf
- [39]. https://www.iso.org/standard/54534.html
- [40]. https://nvlpubs.nist.gov/nistpubs/Legacy/SP/nistspecialpublication800-34r1.pdf
- [41]. https://cybersecurityventures.com/cybercrime-damages-6-trillion-by-2021/
- [42]. https://ipcommission.org/report/IP_Commission_Report_Update_2017.pdf
- [43]. https://www.justice.gov/opa/pr/us-charges-five-chinese-military-hackers-cyber-espionage-against-us-corporations-and-labor
- [44]. https://www.sciencedirect.com/science/article/pii/S1353795308000023
- [45]. https://www.ic3.gov/media/2019/191002.aspx

