

CYBER SECURITY THREATS AND CHALLENGES FACING HUMAN LIFE

Edited by

Narendra M Shekocar, Hari Vasudevan, Surya S Durbha,
Antonis Michalas, Tatwadarshi P Nagarhalli,
Ramchandra Sharad Mangrulkar, and Monika Mangla

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An Assessment of Game-Based Cyber Defense Strategy for SDN

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9.1 INTRODUCTION

The size of networks and their complexity have increased with rapid IT infrastructure developments. This challenges the core network's attributes, for example, clarity, privacy, validation, accessibility, and non-denial of information. In recent years, several researchers have concentrated on building stronger, more flexible, and safer networks. In contrast to the static and distributed environment of conventional networks, a software defined network (SDN) is a step toward creating a dynamic and unified network [1]. Conventional networks are complex and difficult to handle. The network manager has to use vendor

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Cyber Security Threats and Challenges Facing Human Life provides a comprehensive view of the issues, threats, and challenges that are faced in the cyber security domain. This book offers detailed analysis of effective countermeasures and mitigations. The financial sector, healthcare, digital manufacturing, and social media are some of the important areas in which cyber-attacks are frequent and cause great harm. Hence, special emphasis is given to the study and analysis of cyber security challenges and countermeasures in those four important areas.

KEY FEATURES

- Discusses the prominence of cyber security in human life
- Discusses the significance of cyber security in the post-COVID-19 world
- Emphasizes the issues, challenges, and applications of cyber security mitigation methods in business and different sectors
- Provides comprehension of the impact of cyber security threats and challenges in digital manufacturing and the internet of things environment
- Offers understanding of the impact of big data breaches and future trends in data security

This book is primarily aimed at undergraduate students, graduate students, researchers, academicians, and professionals who are interested in exploring their research and knowledge in cyber security domain.

Computer Science



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