

Risk Assessment and Countermeasures for Cybersecurity

Part of the Advances in IT Standards and Standardization Research Book Series

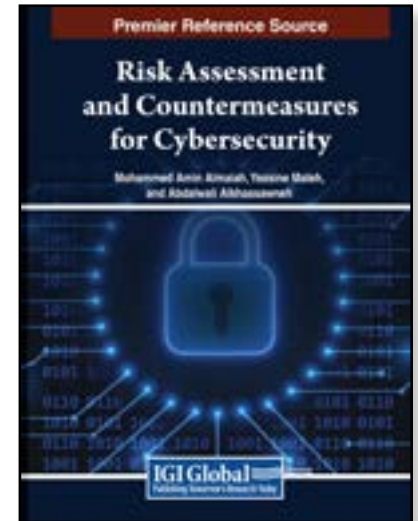
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Description:

The relentless growth of cyber threats poses an escalating challenge to our global community. The current landscape of cyber threats demands a proactive approach to cybersecurity, as the consequences of lapses in digital defense reverberate across industries and societies. From data breaches to sophisticated malware attacks, the vulnerabilities in our interconnected systems are glaring. As we stand at the precipice of a digital revolution, the need for a comprehensive understanding of cybersecurity risks and effective countermeasures has never been more pressing.

Risk Assessment and Countermeasures for Cybersecurity is a book that clarifies many of these challenges in the realm of cybersecurity. It systematically navigates the web of security challenges, addressing issues that range from cybersecurity risk assessment to the deployment of the latest security countermeasures. As it confronts the threats lurking in the digital shadows, this book stands as a catalyst for change, encouraging academic scholars, researchers, and cybersecurity professionals to collectively fortify the foundations of our digital world.

The primary aim of this book is to elevate the discourse surrounding cybersecurity by inspiring scientists to share their groundbreaking research and practical insights. Covering a wide array of topics such as machine learning in security, artificial intelligence security, big data security and privacy, cloud security, and quantum security, it beckons academia, developers, policymakers, and cybersecurity analysts to contribute to the ongoing dialogue. By fostering collaboration and knowledge sharing, **Risk Assessment and Countermeasures for Cybersecurity** empowers readers to not only understand the nuances of modern cyber threats but also actively participate in shaping the future of cybersecurity.



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Topics Covered:

- Anonymity and Privacy
- Artificial Intelligence Security
- Authentication and Access Control
- Big Data Security and Privacy
- Cloud Security
- Cryptography and Cryptology
- Cyber-Physical System Security
- Cybersecurity Risk Assessment
- Digital and Information Forensics
- Machine Learning in Security
- Malware Analysis
- Management, Policies, and Human Factors in Security
- Network and Mobile Security
- Privacy and Cyber Threat
- Quantum Security

Subject: Security and Forensics

Classification: Edited Reference

Readership Level: Advanced-Academic Level
(Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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