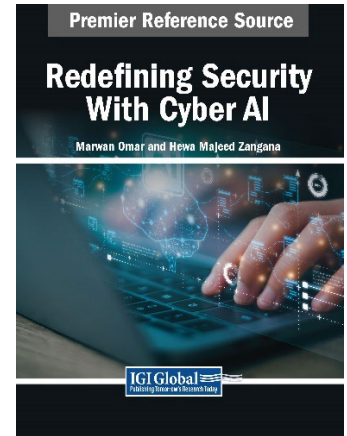# Redefining Security With Cyber AI

Part of Advances in Information Security, Privacy, and Ethics

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Description:

In the rapidly evolving digital landscape, the importance of cybersecurity has never been more critical. With the increasing sophistication of cyber threats, traditional security measures often fall short in providing adequate protection. Cyber artificial intelligence (AI) offers advanced capabilities to detect, prevent, and respond to attacks in real time. As cyber threats continue to grow in complexity and frequency, the integration of AI into cybersecurity frameworks is not just advantageous but essential for maintaining robust and resilient defenses.

Redefining Security With Cyber AI delves into the profound transformation of security paradigms brought about by the advent of AI. This book explores the intricate dance between the ever-expanding frontiers of digital technology and the AI-driven mechanisms that aim to safeguard them. Covering topics such as artificial neural networks, intrusion detection, and large language models, this book is an excellent resource for cybersecurity professionals, AI and machine learning researchers, IT executives and managers, policy makers and regulators, postgraduate students and educators, academicians, and more.

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Topics Covered:

Artificial Intelligence (AI)
Artificial Neural Networks
Cyber Crime; Cybersecurity
Deep Learning Models
Image-Based Attacks

Internet of Things (IoT) Security
Intrusion Detection
Large Language Models
Machine Learning; Smart Grids
Source Code Vulnerability

Subject: Scientific, Technical, & Medical (STM)
Readership Level: Advanced-Academic Level (Research Recommended)

Classification: Edited Reference
Research Suitable For: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners