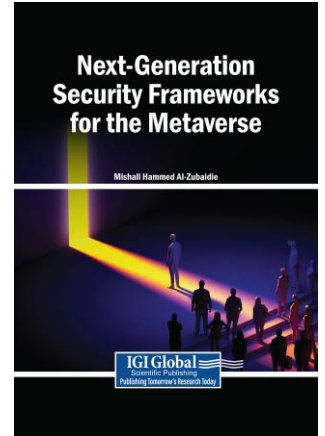


# Next-Generation Security Frameworks for the Metaverse:

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## Description:

The emergence of the metaverse introduces digital environments where users interact, transact, and share data across virtual platforms. As these systems evolve, traditional cybersecurity models prove inadequate against emerging threats like identity theft, data manipulation, virtual asset fraud, and privacy breaches. Next-generation security frameworks address these challenges by integrating advanced technologies like AI, blockchain, zero-trust architecture, and decentralized identity management. These frameworks secure virtual interactions and digital assets while establishing trust, interoperability, and user privacy within highly dynamic and decentralized environments. As the metaverse reshapes social, economic, and technological landscapes, adaptive security mechanisms ensure safe and sustainable virtual experiences.

**Next-Generation Security Frameworks for the Metaverse** explores the cybersecurity challenges and risks associated with virtual environments in the metaverse, including threats to user identity, privacy, digital assets, and platform integrity. It examines how advanced security technologies and modern frameworks create secure, trustworthy, and resilient metaverse systems. This book covers topics such as virtual reality, software engineering, and zero-trust architecture, and is a useful resource for engineers, security professionals, academicians, researchers, and scientists.

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**Hardcover:** \$260 **Softcover:** \$220 **E-Book:** \$250 **Hardcover + E-Book:** \$260

## Topics Covered:

- Artificial Intelligence (AI)
- Cryptography
- Cyber Security
- Intrusion Detection Systems
- Machine Learning
- Metaverse
- Polymorphic & Metamorphic Malware
- Quantum Computing
- Security & Privacy
- Software Engineering
- Virtual Reality (VR)
- Zero-Trust Architecture

**Subject:** Security and Forensics

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**Classification:** Edited Research

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

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