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Next-Gen Connectivity

AI and Secure 6G Unleashed

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Next-Gen Connectivity: AI and Secure 6G Unleashed explores the technologies driving the evolution of intelligent communications beyond 5G. Bringing together advances in AI-enabled 6G networks, cybersecurity, blockchain, quantum technologies, satellite communications, machine learning, intelligent transportation, and sustainable digital infrastructure, this book provides a comprehensive view of the innovations shaping tomorrow's connected world.

As communication networks become increasingly autonomous, data-driven, and interconnected, the need for secure, resilient, and intelligent connectivity has never been greater. This volume examines the architectures, protocols, and enabling technologies that support trusted digital ecosystems while addressing critical challenges in cybersecurity, privacy, network intelligence, autonomous systems, the Internet of Things (IoT), and intelligent infrastructure.

Contributors present cutting-edge research alongside practical perspectives on designing scalable, human-centric communication networks capable of supporting emerging applications across industry, government, and society. By integrating advances in artificial intelligence with next-generation wireless technologies, the book highlights how secure 6G will transform the way people, devices, and systems communicate.

Designed for researchers, graduate students, engineers, and technology professionals, **Next-Gen Connectivity: AI and Secure 6G Unleashed** serves as both a comprehensive reference and a forward-looking guide to the technologies, challenges, and opportunities defining the future of global communications.

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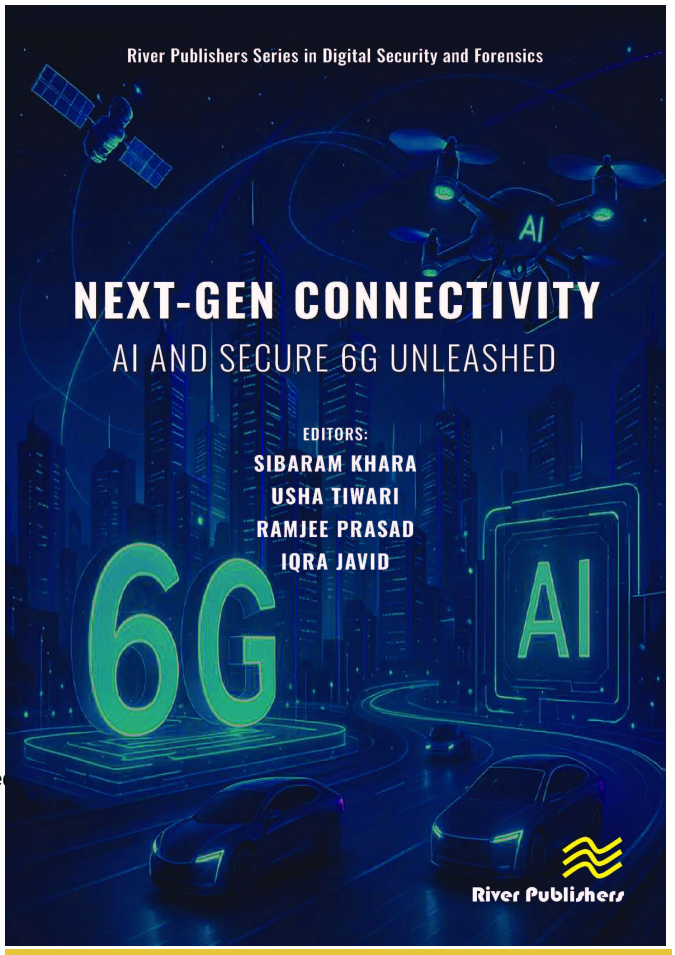

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