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Nota di contenuto	Cover -- Series Page -- Title Page -- Copyright Page -- Contents -- Preface -- Acknowledgements -- Chapter 1 Introduction to AI Techniques for 6G Application -- 1.1 Introduction -- 1.2 Different Generation of Communication: From 1G to 6G -- 1.2.1 First Generation (1G) -- 1.2.2 Second Generation (2G) -- 1.2.3 Third Generation (3G) -- 1.2.4 Fourth Generation (4G) -- 1.2.5 Fifth Generation (5G) -- 1.2.6 Sixth Generation (6G) -- 1.3 Key Features and Requirements of 6G Networks -- 1.3.1 Faster Data Speeds -- 1.3.2 Ultra-Low Latency -- 1.3.3 Massive Capacity -- 1.3.4 Energy Efficiency -- 1.3.5 Seamless Connectivity -- 1.3.6 Advanced Spectrum Management -- 1.3.7 Enhanced Security and Privacy -- 1.3.8 Artificial Intelligence Integration -- 1.3.9 Heterogeneous Network Architecture -- 1.4 Role of Artificial Intelligence in 6G -- 1.4.1 Intelligent Radio Resource Management -- 1.4.2 Beamforming and MIMO -- 1.4.3 Intelligent Network Slicing

This book explores the development and implementation of 6G networks, focusing on advancements in internet infrastructure and technology. The Next Generation Internet (NGI) aims to create faster, more reliable, and secure platforms, enhancing data access, communication, and productivity. Key topics include the evolution of internet generations, integration of artificial intelligence, and the role of decentralized systems in improving user experience. Intended for academicians and industry professionals, it provides insights into building the next generation of internet and decentralized systems, covering aspects such as AI-enhanced network security, edge computing, and quantum computing fusion.
