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Sommario/riassunto	This book covers several cutting-edge topics and provides a direct follow-up to former publications such as "Intent-based Networking" and "Emerging Networking", bringing together the latest network technologies and advanced AI applications. Typical subjects include 5G/6G, clouds, fog, leading-edge LLMs, large-scale distributed environments with specific QoS requirements for IoT, robots, machine and deep learning, chatbots, and further AI solutions. The highly promising combination of smart applications, network infrastructure, and AI represents a unique mix of real synergy. Special aspects of current importance such as energy efficiency, reliability, sustainability, security and privacy, telemedicine, e-learning, and image recognition are addressed too. The book is suitable for students, professors, and advanced lecturers for networking, system architecture, and applied AI.

Moreover, it serves as a basis for research and inspiration for interested professionals looking for new challenges.
