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Sommario/riassunto	This volume explores the forefront of AI innovation in building secure, sustainable, and intelligent systems. From adaptive blockchain solutions for IoT and advances in photonic quantum computing to DNS-based cyber defense and disaster-resilient sensor networks, the research presented addresses critical challenges in digital infrastructure. Additional highlights include AI-driven environmental forecasting, assistive technologies for dyslexia, and machine learning

applications in law enforcement—demonstrating AI's expanding role in safeguarding infrastructure, optimizing resources, and advancing societal resilience. .
