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Auteur(s) : Perez, Alter

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Résumé ou extrait : In an era where cyber threats are evolving at an unprecedented pace, "AI-Powered Security: The Future of Cyber Defense" by Alter Pérez emerges as a vital resource for cybersecurity professionals, IT managers, and tech enthusiasts alike. This comprehensive guide delves deep into the transformative power of artificial intelligence (AI) in revolutionizing the landscape of cyber defense. 1. Comprehensive Introduction to AI in Cybersecurity: The book begins with a thorough introduction to AI and its historical context, setting the stage for a detailed exploration of its application in cybersecurity. Pérez elucidates the evolution of AI, its core principles, and the significant milestones that have marked its journey into the cybersecurity domain. 2. In-Depth Analysis of the Cyber Threat Landscape: Understand the various types of cyber threats, from malware and phishing to advanced persistent threats (APTs) and ransomware. Pérez provides a detailed analysis of recent trends in cyber attacks and highlights the challenges posed by traditional cyber defense mechanisms. 3. Machine Learning Fundamentals: Dive into the basics of machine learning, including supervised, unsupervised, and reinforcement learning techniques. Learn how these AI methodologies are applied to enhance cybersecurity measures and protect against sophisticated cyber threats. 4. AI-Driven Threat Detection and Incident Response: Discover how AI-powered tools are revolutionizing threat detection systems like Intrusion Detection Systems (IDS) and Intrusion Prevention Systems (IPS). The book also covers AI's role in incident response, forensic analysis, and reducing response times, offering real-world case studies of successful implementations. 5. Network and Endpoint Security: Explore AI applications in network security, including securing Internet of Things (IoT) devices, cloud security solutions, and software-

defined networking (SDN). Pérez also delves into AI-based antivirus and anti-malware solutions, endpoint detection and response (EDR), and protecting mobile and remote devices. 6. Advanced Topics in AI for Cybersecurity: Gain insights into AI-driven threat intelligence platforms, predictive analytics, and the integration of AI with existing threat feeds. Learn about the ethical and legal considerations, including data privacy, bias, and fairness in AI models. 7. Strategic Implementation and Future Directions: Get practical advice on integrating AI into cybersecurity infrastructure, choosing the right tools, training the security team, and measuring the effectiveness of AI solutions. Pérez also discusses the future of AI in cyber defense, emerging technologies, and the potential impact of quantum computing.

Sujet - Nom commun : Cyberdéfense -- Prévion

Intelligence artificielle -- Influence

Systèmes informatiques -- Mesures de sûreté