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   Titolo   The "Essence" of Network Security: An End-to-End Panorama / / edited by Mohuya Chakraborty, Moutushi Singh, Valentina E. Balas, Indraneel Mukhopadhyay

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   Edizione   [1st ed. 2021.]

   Descrizione fisica   1 online resource (XXXV, 289 p. 97 illus., 74 illus. in color.)

   Collana   Lecture Notes in Networks and Systems, , 2367-3389 ; ; 163

   Disciplina   005.8

   Soggetti   Telecommunication
                        Machine learning
                        Cooperating objects (Computer systems)
                        Big data
                        Communications Engineering, Networks
                        Machine Learning
                        Cyber-Physical Systems
                        Big Data

   Lingua di pubblicazione   Inglese

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   Nota di contenuto   Introduction to Network Security Technologies -- A Systematic Review of Digital, Cloud and IoT Forensics -- Blockchain Based Framework for Managing Customer Consent in Open Banking -- A Comprehensive Study of Pros and Cons on Implementation of Block-chain for IoT device Security -- Role of Cryptography in Network Security -- Detection of Malicious URLs using Deep Learning Approach -- Software Defined Network Vulnerabilities -- Demystifying Security on NDN: A survey of Existing Attacks and Open Research Challenges -- Anonymous Traffic Network.

   Sommario/riassunto   This edited book provides an optimal portrayal of the principles and applications related to network security. The book is thematically divided into five segments: Part A describes the introductory issues related to network security with some concepts of cutting-edge

technologies; Part B builds from there and exposes the readers to the digital, cloud and IoT forensics; Part C presents readers with blockchain and cryptography techniques; Part D deals with the role of AI and machine learning in the context of network security. And lastly, Part E is written on different security networking methodologies. This is a great book on network security, which has lucid and well-planned chapters. All the latest security technologies are thoroughly explained with upcoming research issues. Details on Internet architecture, security needs, encryption, cryptography along with the usages of machine learning and artificial intelligence for network security are presented in a single cover. The broad-ranging text/reference comprehensively surveys network security concepts, methods, and practices and covers network security policies and goals in an integrated manner. It is an essential security resource for practitioners in networks and professionals who develop and maintain secure computer networks. .