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Nota di contenuto	Cover -- Title -- Copyright -- End User License Agreement -- Contents -- Foreword -- Preface -- List of Contributors -- The Role of Emerging Technologies in Smart Health Care -- Jaskiranjit Kaur1,* and Parvesh Kumar2 -- INTRODUCTION -- Artificial Intelligence (AI) -- INITIATIVES ON AI -- Self-Diagnosis AI Apps -- AI is a Useful Tool for Emergency Medical Personnel -- Speeds Up the Invention and Improvement Of Genetic Remedy -- AI in Pandemic -- NANOTECHNOLOGY -- How Nano-medicines or Smart Pills Work? -- IoT -- Five-Layer Architecture of IoT -- Healthcare Monitoring Devices, Embedded Sensors -- IoT Device Trends and Anticipated Growth -- Key Market Insights -- Drone -- Transporting Devices and Materials -- Enable Backup Transport System in the Pandemic -- Delivering Organ Transfers -- Blockchain -- Machine Learning -- CONCLUSION -- REFERENCES -- An Overview of Blockchain in the Field of Smart Healthcare System -- Ramya E.1,* and Kumaresan N.2 -- INTRODUCTION -- MAJOR ISSUES AND CHALLENGES OF HEALTHCARE SYSTEMS -- ROLE OF BLOCKCHAIN IN THE HEALTHCARE SYSTEM -- BLOCKCHAIN APPLICATIONS IN HEALTHCARE -- ROLE OF ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN IN SMART HEALTHCARE SYSTEMS -- RECENT CHALLENGES TO BLOCKCHAIN IMPLEMENTATION IN IN THE

HEALTHCARE SYSTEMS -- CONCLUSION AND FUTURE WORK OF BLOCKCHAIN IN THE FIELD OF SMART HEALTHCARE SYSTEMS -- REFERENCES -- Integration of Blockchain and Internet of Things -- R. Babu1,*, Jayashree K.2, Priya Vijay3 and Vijay K.3 -- INTRODUCTION -- BLOCKCHAIN -- Components of Blockchain -- Blockchain's Features -- Types of Blockchain -- INTERNET OF THINGS -- Features of IoT System -- Significant Utilization of IoT during the Covid-19 Pandemic -- INTEGRATION OF BLOCKCHAIN AND INTERNET OF THINGS -- RELATED WORK -- RESEARCH CHALLENGES OF IOT DATA ON BLOCKCHAIN -- FUTURE RESEARCH DIRECTIONS.
i. Machine Machine Learning-Based Solutions for BIoT Applications' Security and Privacy -- ii. Problems Arising from Decentralization's Technical Implementation -- iii. Blockchain Infrastructure -- iv. Governance, Regulations, and Legal Aspects -- v. Adaptability -- CONCLUSION AND FUTURE WORK -- REFERENCES -- Consequences and Deliberations in Implementation of Blockchain and Internet of Things Integration -- K. Karthigadevi1,* and G. Srinivasagan2 -- INTRODUCTION -- LITERATURE REVIEW -- Blockchain Types -- a. Public Blockchain -- b. Blockchain Consortium -- c. Personalized Blockchain -- i. The Transaction Between Performance, Power Consumption and Security -- ii. Cooperating Between Throughput and Concurrency: -- iii. Property Tests of IoT: -- iv. Difficulties for Preserving Transparency and Confidentiality in IoT -- v. Regulation and Difficulties of Blockchain Technology in IoT -- LIMITATIONS AND IOT APPLICATION ATTACKS -- Limitations in IoT of Wireless Sensor -- BLOCKCHAIN SECURITY ANALYSIS -- Improved Blockchain Security -- Decentralization -- Higher Traceability -- Reduced Cost -- Data Privacy -- Immutability -- Greater Transparency -- CONCLUSION -- REFERENCES -- Blockchain Integrated with Internet of Things-benefits, Challenges -- Geeta Amol Patil1,*, Surekha K.B.1, Chaithra V.1 and Anand Kumar S.2 -- INTRODUCTION -- AN OVERVIEW OF THE INTERNET OF THINGS -- Centralized Architecture of IoT -- AN OVERVIEW OF BLOCKCHAIN -- Components of Blockchain -- Design, Architecture and Methodology -- BENEFITS AND APPLICATIONS -- Benefits of Integrating IoT and Blockchain -- Applications of Integration of IoT a Blockchain -- CONCLUSION &amp -- FUTURE WORK -- REFERENCES -- Blockchain Powered Medical Sector - Application, Challenges and Future Research Scope -- Divya P.1,*, Saranya R.2 and Praveena V.3 -- INTRODUCTION -- COMPONENTS OF BLOCKCHAIN. LITERATURE REVIEW -- BLOCKCHAIN TECHNOLOGY IN MEDICAL SECTOR -- Significant Applications Blockchain for Healthcare -- Information Storage of a Patient -- Analyse the Effects of a Particular Procedure -- Validation -- Safety and Transparency -- Health Record Keeping -- Clinical Trial -- Display Information -- Identification of False Content -- Reduces Needless Overhead Expenses -- Patient Monitoring -- Create Research Initiatives -- Maintain Financial Statements -- Improves Safety -- Reduce Data Transformation Time and Cost -- Drug Traceability -- CHALLENGES IN HEALTHCARE BLOCKCHAIN ADAPTATION -- Data Collection and Storage -- Data Sharing and Interoperability -- The Need for a Socioeconomic Database -- CONCLUSION AND FUTURE WORK -- REFERENCES -- Blockchain in the Healthcare Domain and Performing Various Security Analysis -- Suresh Kumar Nagarajan1,*, Geetha Narasimhan2, Akila Victor2, Yash Vaish2 and Pranshu Tripathi2 -- INTRODUCTION -- LITERATURE SURVEY -- PROBLEM STATEMENT -- RESEARCH FRAMEWORK -- IMPLEMENTATION -- BitCoin Wallet -- TESTING -- RESULTS AND DISCUSSION -- Summary of the Website -- Website Screenshot -- Exchange Spoof Attack -- CONCLUSION AND FUTURE WORK --

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INTRODUCTION -- RELATED WORKS -- PROPOSED METHODOLOGY -- i. Methodology Used -- ii. Modules Identified -- iii. Modules For Framework Selection -- iv. Modules For Privacy Preservation -- v. Module For Communication Efficient -- A). DATASET DESCRIPTION -- B). IMPLEMENTATION: MODULE 1-FL WITH FLOWER FRAME- WORK -- I). ALGORITHM -- Server -- Client -- II). IMPLEMENTATION -- C). MODULE 2-FL WITH PYSYFT FRAMEWORK -- I). ALGORITHM -- II). IMPLEMENTATION -- D). MODULE 3-FL WITH SECURE MULTIPARTY COMPUTATION -- E). MODULE 5: FL WITH DIFFERENTIAL PRIVACY -- I). ALGORITHM -- II). IMPLEMENTATION -- F). MATHEMATICAL EXPLANATION -- B). ATTACKS -- CONCLUSION AND FUTURE WORK -- REFERENCES -- Smart Ambulance for Emergency Cases to be Reported to Hospitals at the Earliest using Deep Learning Algorithms and Blockchain-based Distri- buted Health Record Transactions for smart Cities.
V. Kavitha1,* and Partheeban Pon2.

Sommario/riassunto

New technologies like blockchain and Internet of Things (IoT) are constantly improving the state-of-the-art in healthcare services. The trend of keeping medical records in digital formats is also increasing the reliance of modern healthcare service providers on these new technologies. This edited book brings a collection of reviews on blockchain and IoT technologies that are driving innovation in digital and smart healthcare systems. The editors bring an academic and practical approach to assist professionals and readers in understanding computerized healthcare solutions. 16 referenced chapters provide knowledge about fundamental framework, research insights, and empirical evidence for effective smart healthcare applications. The chapters also cover benefits and challenges of specific smart health frameworks, giving an informative overview of the subject. Key themes of the book include: 1. Technological Foundations for Smart Healthcare 2. Blockchain Applications in Healthcare 3. Internet of Things (IoT) in Healthcare 4. Artificial Intelligence (AI) Integration 5. Security, Privacy, and Authentication 6. Medical Imaging and Deep Learning 7. Telemedicine The content in the book is designed to help administrators and healthcare professionals to understand the basics of blockchain tech and IoT in smart healthcare systems and strengthen the competitive advantage of their clinics. Readership Healthcare professionals and administrators.