

Enabling Blockchain Technology for Secure Networking and Communications

In recent years, the surge of blockchain technology has been rising due to its proven reliability in ensuring secure and effective transactions, even between untrusted parties. Its application is broad and covers public and private domains varying from traditional communication networks to more modern networks like the internet of things and the internet of energy crossing fog and edge computing, among others. As technology matures and its standard use cases are established, there is a need to gather recent research that can shed light on several aspects and facts on the use of blockchain technology in different fields of interest. Enabling Blockchain Technology for Secure Networking and Communications consolidates the recent research initiatives directed towards exploiting the advantages of blockchain technology for benefiting several areas of applications that vary from security and robustness to scalability and privacy-preserving and more. The chapters explore the current applications of blockchain for networking and communications, the future potentials of blockchain technology, and some not-yet-prospected areas of research and its application. This book is ideal for practitioners, stakeholders, researchers, academicians, and students interested in the concepts of blockchain technology and the potential and pitfalls of its application in different utilization domains.

"This book consolidates the recent research initiatives directed towards exploiting the advantages of Blockchain technology for benefiting several areas of applications from security and robustness to scalability and privacy-preserving. The central focus of this book is investigate several current topics, such as Blockchain for IoT and its derivatives, applications of Blockchain for security and privacy across various domains, Blockchain for Identity Management, Integration of Artificial Intelligence and Blockchain, Blockchain and energy efficiency challenges"--



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