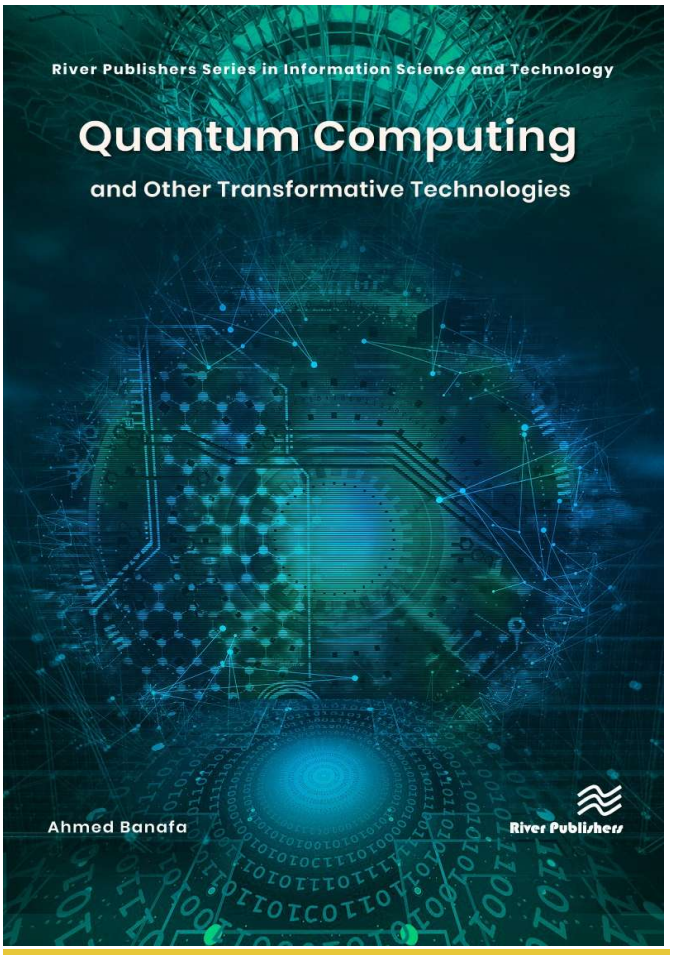
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Quantum Computing and Other Transformative Technologies

Author: Ahmed Banafa, San Jose State University, USA

This book explores quantum computing as a transformative technology and its applications in communications, cryptography, teleportation, IoT, AI, and blockchain, in addition to the revolutionary concept of quantum internet. It also explains the concept of dark, small, thick data, and clarifies what the concept of a data lake. Other exciting technologies like edge/fog computing, CDN, SDN, wearable technology and IoE topics are discussed in details in the book. Information security applications like zero trust model, zero-day vulnerability and heuristic analysis, and use of AI in cybersecurity are explored. Two of the most intriguing concepts in computing "affective computing" and "autonomic computing" are explained and simplified. The blockchain applications presented include blockchain and supply chain, crowdsourcing, cryptocurrency, and IoT. The book ends with a look at using technology to fight COVID-19 and future pandemics.



River Publishers Series in Computing and Information Science and Technology

ISBN: 9788770226844
e-ISBN: 9788770226837
Available From: March 2023
Price: € 95.00 $ 140.00

KEYWORDS:
Quantum Computing, Affective Computing, Fog Computing, Cloud Computing, Big Data, Small Data, Thick Data, Big Data Analytics, AI, Blockchain, Bitcoin, Ethereum, IoT, Internet of Things, Cybersecurity, Network Security, Zero-Trust Model, Deep Learning, Google, Facebook, Quantum Cryptography, Quantum Cryptography, Quantum Internet. Quantum teleportation, Dark Data, Data Lake, Wearable Computing Devices (WCD). Content Delivery Networks â€“ CDNs, Autonomic Computing, Network Functions Virtualization (NFV) and Software-Defined Networking (SDN), The Internet of Everything, Cryptocurrency, COVID-19, Zero-Day Vulnerability and Heuristic Analysis Smart Contracts. Hybrid Cloud Computing, Private Cloud Computing, Hybrid ate Blockchain, Hybrid Blockchain, Entanglement, Quantum Commu Voice User Interface, Internet of AR, 5G, Virtual Reality, Augment R strial Internet of Things, Robots, Crowdsourcing , Supply Chain ,

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