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| | Nota di contenuto | Introduction -- Fundamentals of Edge Intelligence and Blockchain -- Edge Intelligence -- Blockchain -- Motivations of EI-chain and Chain-intelligence -- The Benefit of EI-chain and Chain-intelligence -- EI-Chain -- Chain-Intelligence: Intelligentializing Blockchain -- Beyond Edge -- Multi-role Applications for Consensus Protocol -- Conclusion. |
| | Sommario/riassunto | This book examines whether the integration of edge intelligence (EI) and blockchain (BC) can open up new horizons for providing ubiquitous intelligent services. Accordingly, the authors conduct a summarization of the recent research efforts on the existing works for EI and BC, further painting a comprehensive picture of the limitation of EI and why BC could benefit EI. To examine how to integrate EI and BC, the authors discuss the BC-driven EI and tailoring BC to EI, including an overview, motivations, and integrated frameworks. Finally, some challenges and future directions are explored. The book explores the technologies |

associated with the integrated system between EI and BC, and further bridges the gap between immature BC and EI-amicable BC. Explores the integration of edge intelligence (EI) and blockchain (BC), including their integrated motivations, frameworks and challenges; Presents how BC-driven EI can realize computing-power management, data administration, and model optimization; Describes how to tailor BC to better support EI, including flexible consensus protocol, effective incentive mechanism, intellectuality smart contract, and scalable BC system tailoring; Presents some key research challenges and future directions for the integrated system.