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Nota di contenuto	Serverless Computing: New Trends and Future Directions -- Punching Holes in the Cloud: Direct Communication Between Serverless Functions -- Hybrid Serverless Computing: Opportunities and Challenges -- A Taxonomy of Performance Forecasting Systems in the Serverless Cloud Computing Environments -- Open-Source Serverless for Edge Computing: A Tutorial -- Accelerating and Scaling Data Products With Serverless -- QoS Analysis for Serverless Computing using Machine

Learning -- A Blockchain-Enabled Serverless Approach for IoT Healthcare Applications -- Cost Control and Efficiency Optimization in Maintainability Implementation of Wireless Sensor Networks based on Serverless Computing -- Scheduling Mechanisms in Serverless Computing -- Serverless Cloud Computing: State of the Art and Challenges.

Sommario/riassunto

This book explores how advances in graphic processing units (GPUs), programmable logic devices (TPUs), and field-programmable gate arrays have altered the serverless computing landscape (FPGAs). Distributed system architectures and implementations have undergone significant changes due to the popularity of serverless computing. Making and releasing product applications, doing market research, and maintaining customer interactions might all benefit from the reduced infrastructure expenses made possible by serverless computing. This book is a great resource for teachers and students interested in learning more about serverless computing. Some of the main questions surrounding serverless technology, such as scalability and performance distribution, are answered. Concepts and fundamentals of computing performance such as cost-free operation, good time and resource management, fairness, and interoperability are discussed. Serverless is at the forefront of this shift, which has made data-intensive, distributed applications, and open-source platforms essential for any modern computer to function. Data-centric queuing, real-time logging and monitoring, querying, and alarms are all examples of serverless services.