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Nota di contenuto	1 Addressing the Complexity of HPC in the Cloud: Emergence, Self-Organisation, Self-Management and the Separation of Concerns -- 2 Cloud Architectures and Management Approaches -- 3 Self-organising, Self-Managing Frameworks and Strategies -- 4 Application Blueprints and Service Description -- Simulating Heterogeneous Clouds at Scale -- Concluding Remarks.
Sommario/riassunto	This open access book addresses the most recent developments in cloud computing such as HPC in the Cloud, heterogeneous cloud, self-organising and self-management, and discusses the business implications of cloud computing adoption. Establishing the need for a new architecture for cloud computing, it discusses a novel cloud

management and delivery architecture based on the principles of self-organisation and self-management. This focus shifts the deployment and optimisation effort from the consumer to the software stack running on the cloud infrastructure. It also outlines validation challenges and introduces a novel generalised extensible simulation framework to illustrate the effectiveness, performance and scalability of self-organising and self-managing delivery models on hyperscale cloud infrastructures. It concludes with a number of potential use cases for self-organising, self-managing clouds and the impact on those businesses.