

1. Record Nr.	UNISA996465456603316
Titolo	Handbook of integration of cloud computing, cyber physical systems and internet of things // Rajiv Ranjan [and four others] editors
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] Â©2020
ISBN	3-030-43795-7
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XIV, 323 p. 82 illus., 72 illus. in color.)
Collana	Scalable Computing and Communications
Disciplina	004.6782
Soggetti	Cloud computing Cooperating objects (Computer systems) Internet of things
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- 1. Context-aware IoT-enabled Cyber-Physical Systems: A Vision and Future Directions -- 2. Trustworthy Service Selection for Potential Users in Cloud Computing Environment -- 3. Explorations of Game Theory Applied in Cloud Computing -- 4. Approach to Assessing Cloud Computing Sustainability -- 5. Feasibility of Fog Computing -- 6. Internet of Things and Deep Learning -- 7. Cloud, Context, and Cognition: Paving the Way for Efficient and Secure IoT Implementations -- 8. Challenges in Deployment and Configuration Management in Cyber Physical System -- 9. The Integration of Scheduling, Monitoring, and SLA in Cyber Physical Systems -- 10. Experiences and challenges of providing IoT-based care for elderly in real-life smart home environments -- 11. Internet of Things (IoT) and Cloud Computing Enabled Disaster Management -- 12. EVOX-CPS: Turning Buildings into Green Cyber-Physical Systems Contributing to Sustainable Development -- 13. A multi-level monitoring framework for containerized self-adaptive early warning applications -- .
Sommario/riassunto	This handbook covers recent advances in the integration of three areas, namely, cloud computing, cyber-physical systems, and the Internet of things which is expected to have a tremendous impact on our daily lives. It contains a total of thirteen peer-reviewed and edited chapters.

This book covers topics such as context-aware cyber-physical systems, sustainable cloud computing, fog computing, and cloud monitoring; both the theoretical and practical aspects belonging to these topics are discussed. All the chapters also discuss open research challenges in the areas mentioned above. Finally, the handbook presents three use cases regarding healthcare, smart buildings and disaster management to assist the audience in understanding how to develop next-generation IoT- and cloud-enabled cyber-physical systems. This timely handbook is edited for students, researchers, as well as professionals who are interested in the rapidly growing fields of cloud computing, cyber-physical systems, and the Internet of things.
