

1. Record Nr.	UNINA9910254824003321
Titolo	Engineering and Management of Data Centers : An IT Service Management Approach // edited by Jorge Marx Gómez, Manuel Mora, Mahesh S. Raisinghani, Wolfgang Nebel, Rory V. O'Connor
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-65082-3
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (X, 290 p. 101 illus., 72 illus. in color.)
Collana	Service Science: Research and Innovations in the Service Economy, , 1865-4924
Disciplina	004.5
Soggetti	Data structures (Computer science) Management information systems Data Storage Representation Business IT Infrastructure
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	1 Foundations of data centers: Key Concepts and Taxonomies -- 2 ITSDM: A Methodology for IT Services Design -- 3 Managing Risks on Data Centers through Dashboards -- 4 Risk Analysis in Data Center Disaster Recovery Plans -- 5 Best practices in Data Center Management Case: KIO Networks -- 6 QoS in NaaS (Network as a Service) using Software Defined Networking -- 7 Optimization of Data Center Fault-Tolerance Design -- 8 Energetic Data Center Design Considering Energy Efficiency Improvements During Operation -- 9 Demand-side Flexibility and Supply-side Management: The Use Case of Data Centers and Energy Utilities -- 10 DevOps: Foundations and its Utilization in Data Centers -- 11 Sustainable and Resilient Network Infrastructure Design for Cloud Data Centers -- 12 Application Software in Cloud-Ready Data Centers.
Sommario/riassunto	This edited volume covers essential and recent development in the engineering and management of data centers. Data centers are complex systems requiring ongoing support, and their high value for keeping business continuity operations is crucial. The book presents core topics on the planning, design, implementation, operation and

control, and sustainability of a data center from a didactical and practitioner viewpoint. Chapters include:

- Foundations of data centers: Key Concepts and Taxonomies
- ITSDM: A Methodology for IT Services Design
- Managing Risks on Data Centers through Dashboards
- Risk Analysis in Data Center Disaster Recovery Plans
- Best practices in Data Center Management Case: KIO Networks
- QoS in NaaS (Network as a Service) using Software Defined Networking
- Optimization of Data Center Fault-Tolerance Design
- Energetic Data Centre Design Considering Energy Efficiency Improvements During Operation
- Demand-side Flexibility and Supply-side Management: The Use Case of Data Centers and Energy Utilities
- DevOps: Foundations and its Utilization in Data Centers
- Sustainable and Resilient Network Infrastructure Design for Cloud Data Centres
- Application Software in Cloud-Ready Data Centers

This book bridges the gap between academia and the industry, offering essential reading for practitioners in data centers, researchers in the area, and faculty teaching related courses on data centers. The book can be used as a complementary text for traditional courses on Computer Networks, as well as innovative courses on IT Architecture, IT Service Management, IT Operations, and Data Centers.
