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Autore	Gilli, Eric
Titolo	Big Karst Chambers : Examples, Genesis, Stability / Eric Gilli
Pubbl/distr/stampa	Cham, : Springer, 2021
Descrizione fisica	XII, 201 p. : ill. ; 24 cm
Disciplina	550 551 551.41
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia

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Autore	Yang Yang
Titolo	Fog-Enabled Intelligent IoT Systems / / by Yang Yang, Xiliang Luo, Xiaoli Chu, Ming-Tuo Zhou
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ISBN	3-030-23185-2
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Descrizione fisica	1 online resource (230 pages) : illustrations
Disciplina	004.678 004.6782
Soggetti	Electrical engineering Signal processing Image processing Speech processing systems Application software Communications Engineering, Networks Signal, Image and Speech Processing Information Systems Applications (incl. Internet)
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Livello bibliografico	Monografia
Nota di contenuto	Introduction -- IoT technologies and applications -- Fog computing architecture and technologies -- Challenges and solutions for cross-domain applications -- Fog-enabled intelligent transportation system -- Fog-enabled smart home and user behavior recognition -- Fog-enabled industrial 4.0 -- Fog-enabled wireless network self-optimization -- Conclusion.
Sommario/riassunto	This book first provides a comprehensive review of state-of-the-art IoT technologies and applications in different industrial sectors and public services. The authors give in-depth analyses of fog computing architecture and key technologies that fulfill the challenging requirements of enabling computing services anywhere along the cloud-to-thing continuum. Further, in order to make IoT systems more intelligent and more efficient, two fog-enabled frameworks with detailed technical approaches are proposed for realistic application scenarios with no or limited priori domain knowledge, i.e. physical laws, system statuses, operation principles and execution rules. Based on these fog-enabled frameworks, a series of data-driven self-learning applications in different industrial sectors and public services are investigated and discussed, such as Intelligent Transportation System, Smart Home, Industrial 4.0, Wireless Network Self-Optimization, and User Behavior Recognition. Finally, the advantages and future directions of fog-enabled intelligent IoT systems are summarized in terms of service flexibility, scalability, quality, maintainability, cost efficiency, as well as latency. Provides a comprehensive review of state-of-the-art IoT technologies and applications in different industrial sectors and public services Presents a fog-enabled service architecture with detailed technical approaches for realistic cross-domain application scenarios with limited prior domain knowledge Outlines a series of data-driven self-learning applications (with new algorithms) in different industrial sectors and public services.