1. Record Nr. UNINA9911015625903321

Autore	Krishan Ram
Titolo	Smart Grid Stability and Control : Proceedings of the International Conference on Sustainable Power and Energy Research, ICSPER 2024, Volume 1 / / edited by Ram Krishan, Deepak Reddy Pullaguram, Surender Reddy Salkuti
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9786-34-7
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (910 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1290
Altri autori (Persone)	PullaguramDeepak Reddy SalkutiSurender Reddy
Disciplina	333.794
Soggetti	Power electronics Energy policy Renewable energy sources Power Electronics Energy Policy, Economics and Management Renewable Energy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Section-1: Power system stability, Operation and Control -- Section-2: Smart grid and wide area monitoring -- Section-3: Power electronics drives and electric vehicles -- Section-4: Condition monitoring and HV engineering -- Section-5: Power electronic applications in power systems.
Sommario/riassunto	This book features papers from the International Conference on Sustainable Power and Energy Research, ICSPER 2024. Covering the spectrum of power and energy, it focuses on various aspects of emerging technologies, research ideas, real-time experiences, and understanding of technology utilization in electrical power and energy systems. The book introduces new ideas in Power system stability, Operation, and Control; Renewable energy resources and energy storage; Power electronics drives and Electric vehicles; Smart grid and wide area monitoring; Data science applications and cyber security in power systems; Energy market and deregulation; Power System

	Protection; Condition monitoring and HV engineering; Soft computing Techniques in electrical engineering; Power electronic applications in power systems.

2.

Record Nr.	UNINA9911016069803321
Autore	Qaisar Muhammad Umar Farooq
Titolo	Empowering IoT: Reliability, Network Management, Sensing, and Probabilistic Charging in Wireless Sensor Networks : A Comprehensive Guide to IoT-Based WSN Network Optimization / / by Muhammad Umar Farooq Qaisar, Weijie Yuan, Paolo Bellavista, Hina Tabassum
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9660-79-3
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (277 pages)
Altri autori (Persone)	YuanJeffrey W (Jeffrey Weijie) BellavistaPaolo TabassumHina
Disciplina	004.678
Soggetti	Internet of things Wireless communication systems Mobile communication systems Internet of Things Wireless and Mobile Communication
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- IoT and Wireless Sensor Networks (WSNs) -- Wireless Sensor Networks Empowered by SDN: Reliable and Resilient Communication -- Securing Sensor Routes: Trustworthy and Load-Balanced Strategies -- Navigating the Energy Spectrum: Probabilistic Cluster Routing for Efficiency -- Revolutionizing IoT Sensor Charging: The ISAC-Probabilistic Paradigm -- Summary and Future Perspective.
Sommario/riassunto	This book provides a comprehensive exploration of both fundamental principles and practical engineering techniques. It places a strong emphasis on several key areas, including load balancing for IoT sensor devices through effective network management to ensure robust

communication reliability among these sensor devices. It also delves into the intricacies of efficient charging scheduling for sensor devices, using probabilistic approaches and integrated sensing and communication technologies to enhance network optimization. Central to the book's goals is its comprehensive and systematic treatment of practical challenges in IoT network optimization. This focus makes it particularly suitable for readers seeking practical solutions in this area. The book's target audience includes researchers, engineers, graduate students, and IoT industry professionals interested in areas such as reliability improvement, load balancing, charging scheduling, and network management. By providing both theoretical foundations and practical insights, this book serves as a valuable resource for those seeking to navigate the complexities of IoT network optimization.