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Autore	Pichon, René
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Pubbl/distr/stampa	Hildesheim : Olms, 1966
Descrizione fisica	75-303 p. ; 22 cm
Disciplina	473
Soggetti	Lessici Lingua latina - Glossari Lingua latina - Vocabolari
Lingua di pubblicazione	Latino
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Livello bibliografico	Monografia
2. Record Nr.	UNINA9910845484203321
Titolo	Communication Technologies and Security Challenges in IoT : Present and Future / / edited by Ajay Prasad, Thipendra P. Singh, Samidha Dwivedi Sharma
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	981-9700-52-3
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (562 pages)
Collana	Internet of Things, Technology, Communications and Computing, , 2199-1081
Disciplina	002
Soggetti	Internet of things Security systems Computer networks - Security measures Internet - Social aspects Telecommunication Internet of Things Security Science and Technology Mobile and Network Security Internet Studies Communications Engineering, Networks

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	<p>1. IoT Communication models and technology requirements -- 2. Security challenges in IoT -- 3. Communication Technology in IoT: The threat models -- 4. IoT Sensors and Models of Communication -- 5. Securing IoT applications -- 6. IPv6: strengths and limitations -- 7. IP Based Communication in IoT: Handling Security Challenges -- 8. Non-IP Based Communication in IoT: Handling Security Challenges -- 9. Low Power Communication systems: addressing security issues -- 10. Long-Range Communication Systems: addressing security issues -- 11. Security Issues and Its Countermeasures in Cloud-based IoT -- 12. Communication mechanisms in IoT Domains: Security threats and countermeasures -- 13. RFID and NFC technology protocols and challenges -- 14. Evolving Wireless protocols and their security aspects.</p>
Sommario/riassunto	<p>This book presents overall communication technologies and protocols used in IoT like in networks: Wi-Fi, Bluetooth, Zigbee, LoRA, GSM/GPRS/EDGE/LTE, etc. in applications: MQTT, CoAP, AMQP, XMPP, etc, focusing on the architecture and threat perseverance of each. The book also presents new/future technological additions like Wi-Fi HaLow (802.11ah), HEW (802.11ax), BLE, NFC, RFID, etc.,) and upcoming changes in communication systems in IoT and its possible security aspects. The book also covers security aspects in communication mechanisms in domain-specific IoT solutions for healthcare, smart cities, smart homes, smart vehicles, etc. The objective of the book is to assist IoT developers to have a good insight into available and upcoming communication technologies so that they can employ the best possible practices while designing and developing IoT solutions.</p>