1. Record Nr. UNINA9910627262003321

Titolo	Integration of unmanned aerial vehicles in wireless communication and networks : UAVs and 5G / / Dushantha Nalin K Jayakody [and three others], editors
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2023] ©2023
ISBN	3-031-03880-0
Descrizione fisica	1 online resource (167 pages) : illustrations (chiefly color)
Collana	Unmanned system technologies
Disciplina	629.13339
Soggetti	Drone aircraft - Automatic control Wireless communication systems 5G mobile communication systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction Positioning of UAVs Coagulation Attacks on UAVs Self-Energized UAV assisted Co-operative Relay Low Latency Enabled UAVs Full Duplex UAV Assisted Wireless Networks Cellular Integration of UAVs Trajectory Optimization of UAVs UAV Assisted Wireless Power Sensor Network UAV Assisted NOMA for 5G Conclusion
Sommario/riassunto	This book presents a comprehensive overview of Unmanned Arial Vehicles (UAV) and their integration of wireless communications and networks, including inherent challenges and open access concerns. The authors present the latest technologies associated with UAV-assisted wireless communications and networks by linking their association with 5G Wireless Networks. The authors include positioning of UAV, coagulation attack of UAV, and the green prospective of UAV communication systems. The book explains how the UAV can be integrated with 5G wireless schemes such as ultra-reliable, low density communications, full duplex, and non-orthogonal multiple access (NOMA) for 5G. This book targets graduate students, researchers, and industry personnel. Present the technologies associated with Unmanned Aerial Vehicles (UAV) assisted wireless communications and networks Discusses UAV and the integration to 5G and beyond

technologies Contains solved examples and step-by-step instructions of the derivations and highlights future direction and open challenges.