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Titolo	Fiber-Wireless Convergence in Next-Generation Communication Networks : Systems, Architectures, and Management / / edited by Massimo Tornatore, Gee-Kung Chang, Georgios Ellinas
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Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XXVII, 406 p. 205 illus., 167 illus. in color.)
Collana	Optical Networks, From Physical Layer to Service Offerings, , 1935-3839
Disciplina	005.8
Soggetti	Microwaves Optical engineering Electrical engineering Computer communication systems Microwaves, RF and Optical Engineering Communications Engineering, Networks Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Future Radio Access, WiFi-LTE, LTE advanced -- Evolution and Trends of Broadband Access Technologies and Fiber-Wireless Systems -- The Benefits of Convergence through Fiber Wireless Integration and Networking -- Analog and Digitized Radio-over-Fiber -- Overview of standardization for D-RoF -- Wireless delivery of over 100Gb/s mm-wave signal in the W-band -- Systems Challenges for SDN in Fiber Wireless Networks -- Architectural Evolution and Novel Design of Fiber-Wireless Access Networks -- Advanced architectures for PON supporting Fi-Wi convergence -- BBU Hotelling in Centralized Radio Access Networks -- Rethink Ring and Young -- Next Generation PoP with functional convergence re-distributions -- Coordinated Multi-Point (CoMP) Systems -- Converged Wireless Access/Optical Metro Networks in Support of Cloud and Mobile Cloud Services deploying SDN Principles -- Conclusion and

	Future Topics.
Sommario/riassunto	This book investigates new enabling technologies for Fi-Wi convergence. The editors discuss Fi-Wi technologies at the three major network levels involved in the path towards convergence: system level, network architecture level, and network management level. The main topics will be: a. At system level: Radio over Fiber (digitalized vs. analogic, standardization, E-band and beyond) and 5G wireless technologies; b. Network architecture level: NGPON, WDM-PON, BBU Hotelling, Cloud Radio Access Networks (C-RANs), HetNets. c. Network management level: SDN for convergence, Next-generation Point-of-Presence, Wi-Fi LTE Handover, Cooperative MultiPoint. • Addresses the Fi-Wi convergence issues at three different levels, namely at the system level, network architecture level, and network management level • Provides approaches in communication systems, network architecture, and management that are expected to steer the evolution towards fiber-wireless convergence • Contributions from leading experts in the field of Fiber-Wireless Convergence.