

1. Record Nr.	UNINA9910254823603321
Titolo	Wireless and Satellite Systems : 8th International Conference, WiSATS 2016, Cardiff, UK, September 19-20, 2016, Proceedings // edited by Ifiok Otung, Prashant Pillai, George Eleftherakis, Giovanni Giambene
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-53850-0
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XI, 236 p. 132 illus.)
Collana	Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, , 1867-822X ; ; 186
Disciplina	621.384
Soggetti	Computer networks Application software Coding theory Information theory Computer Communication Networks Computer and Information Systems Applications Coding and Information Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	A Compact CSRR Loaded Monopole Antenna with Defected Ground Structure for Mobile WLAN and WiMAX Applications -- Development Status of Small-sized Ka-band Mobile Terminal for Maritime Broadband Communications -- New and Less Complex Approach to Estimate the Angles of Arrival -- MIMO Based Multi Band Antenna for Wireless Communication in C-band, X-Band, K-Band and Ku Band -- A Staircase-shaped DGS Structure Monopole Antenna for UWB Operations -- Implementation of a Low-Rate Linear Step FM Transceiver on a Software Defined Radio Platform -- High Reliability Light Weight Multi-Mission Amplifier System -- Examination of power consumption reduction and sampling behavior of envelope detection based wake-up-receiver with duty cycling scheme -- Bit Synchronization and Delayed Decision Feedback Equalization for EDGE BTS - Hardware Implementation on TMS320C6424 TI DSP -- Precoding of Correlated

Symbols for STBC Systems Design -- Communication Applications in Smart Grid (CASG) Special Session -- Optimization of Community Based Virtual Power Plant with Embedded Storage and Renewable Generation -- Assessment of effective radiated power of the partial discharge emulator source Wireless, Computing and Satellite Systems Security (WCSSS) Special Session -- Experimental Privacy Analysis and Characterization for Disconnected VANETs -- A Mobility-Aware Trust Management Scheme for Emergency Communication Networks -- Effective Doppler Mitigation in Critical Satellite Communications -- Interference Mitigation for Multi Spot Beam Satellite Communication Systems Incorporating Spread Spectrum -- Specific Rain Attenuation derived from a Gaussian Mixture Model for Rainfall Drop Size Distribution -- Cognitive Interference Management Techniques for the Spectral Co-existence of GSO and NGSO Satellites -- A 15.5W Si-LDMOS Balanced Power Amplifier With 53% Ultimate PAE for High Speed LTE -- Energy Efficient Adaptive Network Coding Schemes for Satellite Communications -- Distribution of HDTV using VLC Techniques for Domestic Applications -- On the Energy Minimization of Heterogeneous Cloud Radio access Networks. .

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### Sommario/riassunto

This book constitutes the proceedings of the 8th International Conference on Wireless and Satellite Services, WiSATS 2016, held in Cardiff, UK, in September 2016. The conference was formerly known as the International Conference on Personal Satellite Services (PSATS) mainly covering topics in the satellite domain. As the scope of the conference widened to include wireless systems, the conference was renamed WiSATS. The 22 revised papers were selected from 32 submissions and cover a broad range of related state-of-the-art topics in antennas and mobile terminals, symbol precoding and network coding schemes, energy efficient strategies in satellite communication and cloud radio access networks, smart grid communication and optimization, security issues in vehicular ad-hoc networks (VANET) and delay tolerant networks (DTN), interference mitigation in high throughput geostationary and non-geostationary satellite systems.

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