

1. Record Nr.	UNINA9910670796303321
Autore	Gong Chen
Titolo	Visible Light Communication and Positioning / Chen Gong
Pubbl/distr/stampa	MDPI - Multidisciplinary Digital Publishing Institute, 2019 Basel, Switzerland : , : MDPI, , 2019
ISBN	9783039214365 3039214365
Descrizione fisica	1 electronic resource (144 p.)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>In recent years, wireless communications have significantly evolved due to the advanced technology of smartphones;, portable devices; and the rapid growth of Internet of Things, e-Health, and intelligent transportation systems . Moreover, there is anare increasing need fors of emerging intelligent services like positioning and sensing in athe future intelligence society. Recent years have witnessed the growing research interests and activities in the communication and intelligencet services in the optical wireless spectrum, as a complementary technology to more established radio frequency (RF)-based systems, to overcome the spectrum sparsity and increases data rates in crowded locations, due to the limited transmission range and interference. The OWC technology offers advantages such as free license, wide bandwidth, inherent security, no RF electromagnetic interference, and immunity to electromagnetic interference. The attractive applications of the optical spectrum include ultra-violet tactic communication, blue/green underwater communication, visible light positioning, and vehicular communication/sensing in intelligent transportation systems. The present lissue, as named "Visible Light Communication and Positioning", focuses on visible light communication and visible light positioning, where four papers are on visible light communication and three papers are on visible light positioning. For visible light</p>

communication, the published works focus on the devices, the physical-layer techniques, and the system work aspects. Besides VLC, visible light positioning works include fingerprint-based indoor positioning system for multiple reflections, the impact of LED tilt on visible light positioning accuracy, and a mobile optoelectronic tracking system based on feedforward control.
