

|                         |  |
|-------------------------|--|
| 1. Record Nr.           | UNINA9910576877303321  |
| Autore                  | Chen Chen  |
| Titolo                  | Visible Light Communication (VLC)  |
| Pubbl/distr/stampa      | MDPI - Multidisciplinary Digital Publishing Institute, 2022  |
| Descrizione fisica      | 1 online resource (240 p.)   |
| Soggetti                | History of engineering & technology<br>Technology: general issues  |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Sommario/riassunto      | Visible light communication (VLC) using light-emitting diodes (LEDs) or laser diodes (LDs) has been envisioned as one of the key enabling technologies for 6G and Internet of Things (IoT) systems, owing to its appealing advantages, including abundant and unregulated spectrum resources, no electromagnetic interference (EMI) radiation and high security. However, despite its many advantages, VLC faces several technical challenges, such as the limited bandwidth and severe nonlinearity of opto-electronic devices, link blockage and user mobility. Therefore, significant efforts are needed from the global VLC community to develop VLC technology further. This Special Issue, "Visible Light Communication (VLC)", provides an opportunity for global researchers to share their new ideas and cutting-edge techniques to address the above-mentioned challenges. The 16 papers published in this Special Issue represent the fascinating progress of VLC in various contexts, including general indoor and underwater scenarios, and the emerging application of machine learning/artificial intelligence (ML/AI) techniques in VLC. |