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Titolo	Wireless Sensor and Mobile Ad-Hoc Networks : Vehicular and Space Applications // edited by Driss Benhaddou, Ala Al-Fuqaha
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2015
ISBN	1-4939-2468-0
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (254 p.)
Disciplina	004.6 620 621.382 629.1
Soggetti	Electrical engineering Aerospace engineering Astronautics Computer communication systems Communications Engineering, Networks Aerospace Technology and Astronautics Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction to Wireless Sensor Networks -- Introduction to Ad-Hoc and Vehicular Networks -- Routing protocols in WSN space application -- Middleware architecture in WSN -- NASA-JSC Space Applications of Low-Power Active Wireless Sensor Networks and Passive RFID Tags -- Predictive Data Reduction in WSN using Selective Filtering -- Space Crew health monitoring -- AGORA: A Versatile Platform for the Development of Vehicular Applications -- Model, Analysis, and Improvements for Inter-vehicle Communication using One-hop Periodic Broadcasting Based on the 802.11p Protocol -- A Survey of Security and Privacy in Connected Vehicles.
Sommario/riassunto	This book describes the practical perspectives in using wireless sensor networks (WSN) to develop real world applications that can be used for space exploration. These applications include sensor interfaces, remote

wireless vehicles, space crew health monitoring and instrumentation. The material discusses how applications of WSN originally developed for space travel and exploration are being applied and used in multiple real world applications, allowing for the development of smart systems that have characteristics such as self-healing, self-diagnosis, and emergency healthcare notification. This book also:

- Discusses how multidisciplinary fields can be implemented in a single application
- Reviews exhaustively the state-of-the-art research in WSN for space and vehicular applications
- Covers smart systems that have self-healing, self-diagnosis, and emergency healthcare notification.
