	UNINA9910820344903321
Titolo	Global navigation satellite systems : report of a joint workshop of the National Academy of Engineering and the Chinese Academy of Engineering / / edited by Lance A. Davis, Per K. Enge, and Grace X. Gao ; National Academy of Engineering of the National Academies
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, 2012
ISBN	0-309-22278-8 1-280-38021-7 9786613558121 0-309-22276-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (285 p.)
Altri autori (Persone)	DavisLance A EngePer K GaoGrace X
Disciplina	629.045
Soggetti	Artificial satellites in navigation Global Positioning System
Lingua di pubblicazione	Inglese
Lingua di pubblicazione Formato	Inglese Materiale a stampa
Lingua di pubblicazione Formato Livello bibliografico	Inglese Materiale a stampa Monografia
Lingua di pubblicazione Formato Livello bibliografico Note generali	Inglese Materiale a stampa Monografia Description based upon print version of record.
Lingua di pubblicazione Formato Livello bibliografico Note generali Nota di bibliografia	Inglese Materiale a stampa Monografia Description based upon print version of record. Includes bibliographical references.

1.

	Assessment of GNSS Open ServicesJiao Wenhai, Ding Qun, Li Jian- wen, Lu Xiaochun, and Feng Laiping"" ""Alternative Position, Navigation, and Timing: The Need for Robust RadionavigationMitchell J. Narins, Leo V. Eldredge, Per Enge, Sherman C. Lo, Michael J. Harrison, and Randy Kenagy"""Analysis of the GNSS Augmentation Technology ArchitectureChen Jinping""; ""Impact of Intentional, Low Power, In-Band, Personal Privacy Devices (PPDs) on AviationA.J. Van Dierendonck""; ""GNSS Open Signals Interference Issues and CountermeasuresDu Xiaodong, Wang Feixue, and Nie Junwei""; ""Present and Future Applications of COMPASS Navigation Satellite SystemTan Shusen"" ""Application of GNSS to Environmental StudiesPenina Axelrad"""" Recent Progress on GNSS SeismologyLiu Jingnan, Fang Rongxin, and Shi Chuang""; ""Precision Agriculture: Opportunities and Challenges Michael Oa€?Connor""; ""Integrity Lessons from the WAAS Integrity Performance PanelTodd Walter, Per Enge, and Bruce DeCleene""; ""Breaking the Ice: Navigation in the ArcticGrace Xingxin Gao, Liang Heng, Todd Walter, and Per Enge"; ""APPENDIXES""; "Workshop attendees [photo]""; "Appendix A: Workshop Agenda""; ""Appendix B: Workshop Summary Record""
Sommario/riassunto	The Global Positioning System (GPS) has revolutionized the measurement of position, velocity, and time. It has rapidly evolved into a worldwide utility with more than a billion receiver sets currently in use that provide enormous benefits to humanity: improved safety of life, increased productivity, and wide-spread convenience. Global navigation satellite systems summarizes the joint workshop on Global Navigation Satellite Systems held jointly by the U.S. National Academy of Engineering and the Chinese Academy of Engineering on May 24-25, 2011 at Hongqiao Guest Hotel in Shanghai, China. "We have one world, and only one set of global resources. It is important to work together on satellite navigation. Competing and cooperation is like Yin and Yang. They need to be balanced," stated Dr. Charles M. Vest, President of the National Academy of Engineering, in the workshop's opening remarks. Global navigation satellite systems covers the objectives of the workshop, which explore issues of enhanced interoperability and interchangeability for all civil users aimed to consider collaborative efforts for countering the global threat of inadvertent or illegal interference to GNSS signals, promotes new applications for GNSS, emphasizing productivity, safety, and environmental protection. The workshop featured presentations chosen based on the following criteria: they must have relevant engineering/technical content or usefulness; be of mutual interest; offer the opportunity for enhancing GNSS availability, accuracy, integrity, and/or continuity; and offer the possibility of recommendations for further actions and discussions.