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Nota di contenuto	Cover; Title Page; Contents; Foreword; Introduction; Chapter 1. The Geopositioning Concept; 1.1. A revolution is announced; 1.2. The basis of powerful technological systems; 1.2.1. US creation of a GPS economic industry; 1.2.2. The European momentum introduced with Galileo which can rely on Egnos from now on; 1.2.3. An open dynamic beyond the space industry sector; 1.3. The fundamentals of geopositioning development; 1.3.1. The universalism decentralizing of the Internet; 1.3.2. The trend toward "service" of the electronic communication economy 1.3.3. The dynamic and lessons of the European GSM success story1.4. Prospective visions of large geopositioning markets in transport and land transport; 1.4.1. Multiple factors for geoposition; 1.4.2. Toll systems; 1.4.3. Transport control and surveillance; 1.4.4. The production of information; 1.4.5. Intelligence systems in vehicles; 1.4.6. Individual mobility (tourism and recreation); 1.5. The challenge for the future of the European GNSS incubation services; 1.5.1. The need for downstream marketing "services, a; 1.5.2. The obligation of "system" strategies

1.5.3. The requirement to include GNSS in the new intelligent digital architectures  
1.6. Bibliography; Chapter 2. Functions and Performance of the Egnos System; 2.1. Introduction; 2.2. Operating principles of Egnos; 2.3. Improving GPS performance with Egnos; 2.4. The behavior of Egnos faced with a GPS breakdown; 2.5. Conclusion; 2.6. Links; Chapter 3. Information, Modeling and Traffic Reconstruction; 3.1. New technologies and development; 3.2. Modeling and algorithms; 3.3. Analysis and overall traffic prediction; 3.4. Realizations and experiments; 3.5. Perspectives; 3.6. Bibliography  
Chapter 4. Geopositioning and Legal Issues  
4.1. General legal framework of geopositioning; 4.1.1. Legal texts; 4.1.2. Relevant legal concepts; 4.1.3. Technical concepts and the law; 4.2. Operating a geopositioning service; 4.2.1. Due diligence - prerequisites; 4.2.2. Establishment of a general framework for security; 4.2.3. Determining the aim of the service; 4.2.4. Administrative declaration; 4.2.5. The principle of consent in geopositioning; 4.2.6. Records management issues; 4.3. Authentication and anonymity; 4.3.1. Identity, name and anonymity; 4.3.2. Identity and digital certificates  
4.4. Bibliography  
Chapter 5. Location-based Services: Platforms and Applications; 5.1. Introduction; 5.2. Technologies for LBS-based systems; 5.2.1. Positioning systems and techniques; 5.2.2. Communication techniques; 5.2.3. Cartography and geographical information systems; 5.2.4. Business process; 5.3. Fields of application of LBS; 5.3.1. Control and monitoring of vehicles; 5.3.2. Real-time monitoring of snowplows; 5.3.3. Application to antilock braking systems; 5.3.4. TransportML for the collaboration and interaction of services; 5.3.5. eCall: automatic emergency call system  
5.3.6. Other LBS-based platforms

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## Sommario/riassunto

This book presents a general overview of the applications and use of geopositioning and GNSS for assisting the supervision and management of mobile terrestrial professions, information, traffic regulation, multimodal information, pedestrian mobility and indoor geopositioning, etc. It especially focuses on the field of mobility and terrestrial transport, the automotive industry and tourism (on foot, by bicycle or motorcycle, by car, by professional vehicles or by public transport, etc.). This book explores the many possibilities, developmental and organizational factors, as well as new parad

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