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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Reference ITS architectures in Europe / Begona Molinete, Sergio Campos, Ignacio (Inaki) Olabarrieta and Ana Isabel Torre -- Architecture reference of ITS in USA / Clifford D. Heise -- Wireless communications in vehicular environments / Pekka Eloranta and Timo Sukuvaara -- The case for wireless vehicular communications supported by roadside infrastructure / Tiago Meireles and JosE Fonseca and Joaquim Ferreira -- Cyber security risk analysis for intelligent transport systems and in-vehicle networks / Alastair R. Ruddle and David D. Ward -- Vehicle interaction with electromagnetic fields and implications for intelligent transport systems (ITS) development / Lester Low and Alastair R. Ruddle -- Novel in-car integrated and roof mounted antennas / Rus Leelaratne -- Middleware solution to support its services in iot-based visual sensor networks / Matteo Petracca, Claudio Salvadori, Andrea Azzara, Daniele Alessandrelli, Stefano Bocchino, Luca Maggiani and Paolo Pagano -- Smart cameras for ITS in urban environment / Massimo Magrini, Davide Moroni, Gabriele Pieri and Ovidio Salvetti -- Congestion prediction by means of fuzzy logic and genetic algorithms / Xiao Zhang Enrique Onieva Victor C.S. Lee and Kai Liu -- Vehicle control in adas applications -state of the art- / Joshue Perez and David Gonzalez and Vicente Milanés -- Review of legal aspects relating to advanced driver assistance systems / Alastair

R. Ruddle and Lester Low -- Traffic management systems / Antonio Amador, Rui Dias, Tiago Dias and Tome Canas -- The use of cooperative ITS in urban traffic management / Sadko Mandzuka, Edouard Ivanjko, Miroslav Vujic, Pero Skorput, Martin Greguric -- Methodology for an intelligent in-car traffic information management system / Nerea Aguiriano, Alfonso Brazalez and Luis Matey -- New approaches in user services development for multimodal trip planning / Asier Moreno, Itziar Salaberria and Diego Lopez-de-Ipina.

Sommario/riassunto

The book provides a systematic overview of Intelligent Transportation Systems (ITS). First, it includes an insight into the reference architectures developed within the main EU research projects. Then, it delves into each of the layers of such architectures, from physical to application layer, describing the technological issues which are being currently faced by some of the most important ITS research groups. The book concludes with some end user services and applications deployed by industrial partners. This book is a well-balanced combination of academic contributions and industrial applications in the field of Intelligent Transportation Systems. The most representative technologies and research results achieved by some of the most relevant research groups working on ITS, collated to show the chances of generating industrial solutions to be deployed in real transportation environments.
