

1. Record Nr.	UNINA9910350313103321
Autore	Zhang Xiubin
Titolo	Principles of Intelligent Automobiles [[electronic resource] /] / by Xiubin Zhang, Muhammad Mansoor Khan
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-2484-0
Descrizione fisica	1 online resource (286 pages)
Disciplina	629.2220285
Soggetti	Engineering Artificial intelligence Automotive Engineering Artificial Intelligence Control, Robotics, Mechatronics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Vehicle Driving Safety Technology Based on IVP -- Intelligent Prosecution of Dangerous Driving -- Intelligent Monitoring Technology of Automobile Power and Transmission System -- Vehicle Intelligent Navigation and Traffic System -- Vehicle Auxiliary Intelligent Technology.
Sommario/riassunto	This book discusses the principle of automotive intelligent technology from the point of view of modern sensing and intelligent control. Based on the latest research in the field, it explores safe driving with intelligent vision; intelligent monitoring of dangerous driving; intelligent detection of automobile power and transmission systems; intelligent vehicle navigation and transportation systems; and vehicle-assisted intelligent technology. It draws on the author's research in the field of automotive intelligent technology to explain the fundamentals of vehicle intelligent technology, from the information sensing principle to mathematical models and the algorithm basis, enabling readers to grasp the concepts of automotive intelligent technology. Opening up new scientific horizons and fostering innovative thinking, the book is a valuable resource for researchers as well as undergraduate and graduate students.

