Record Nr. UNINA9910456925103321 The safety of intelligent driver support systems [[electronic resource]]: **Titolo** design, evaluation, and social perspectives / / edited by Yvonne Barnard, Ralf Risser, and Josef Krems Farnham, Surrey;; Burlington, Vt.,: Ashgate, c2011 Pubbl/distr/stampa **ISBN** 1-315-55314-7 1-317-01674-2 1-283-04745-4 9786613047458 0-7546-9525-5 Descrizione fisica 1 online resource (210 p.) Collana Human factors in road and rail transport Altri autori (Persone) BarnardYvonne F KremsJosef <1954-> RisserRalf Disciplina 388.3/12 Soggetti Automobiles - Safety appliances Intelligent transportation systems - Safety measures Traffic accidents - Risk assessment Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Cover; Contents; List of Figures; List of Tables; List of Abbreviations; About the Editors; List of Authors and Affiliations; Preface; Acknowledgements: 1 Introduction: 2 Intelligent Driver Support System Functions in Cars and Their Potential Consequences for Safety: 3 Safety According to IDSS Functions and to Different Driver Types; 4 Design for Safety: A Cognitive Engineering Approach; 5 HUMANIST Contributions for the Development of Guidelines and Standards on HMI; 6 Evaluating Impact on Drivers and Drivers' Tasks; 7 Tools and Procedures for Measuring Safety-relevant Criteria 8 Psychophysiological Measures of Driver State9 Public Impact: Nonequipped and Vulnerable Road Users and Residents; 10 Different Types of Drivers' Social Problems; 11 The Future of IDSS; Index

Sommario/riassunto

Road telematics and driver assistance systems offer a real opportunity to aid mobility and road safety. However, they also raise numerous questions. Problems related to the design and evaluation of intelligent driver support systems (IDSSs) and social perspectives related to their large scale introduction may only be fully addressed from a multi-disciplinary viewpoint. People from both engineering and social sciences, should be involved and this book provides such knowledge from both a human and social factors perspective.