1. Record Nr. UNINA9910808607203321

Autore	Schauffele Jorg
Titolo	Automotive software engineering : principles, processes, methods, and tools / / by Jorg Schauffele and Thomas Zurawka ; translated by Roger Carey
Pubbl/distr/stampa	Warrendale, Pa. (400 Commonwealth Dr., Warrendale PA USA) : , : Society of Automotive Engineers, , [2016]
ISBN	0-7680-8850-X 0-7680-8334-6 1-5231-0851-7
Edizione	[Second edition.]
Descrizione fisica	1 online resource (1 PDF (xv, 370 pages)) : illustrations
Collana	Society of Automotive Engineers. Electronic publications
Disciplina	629.272028552
Soggetti	Automotive computers Software engineering COMPUTERS / Software Development & Engineering / General TECHNOLOGY & ENGINEERING / Automotive Computer programming / software engineering Automotive technology and trades
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"SAE Order No. R-432." Translation of: Automotive Software Engineering : Grundlagen, Prozesse, Methoden und Werkzeuge eff izient einsetzen.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Foreword: The role of software in the automobile -- Preface to the second English edition -- Acknowledgments -- Chapter 1: Introduction and overview -- Chapter 2. Essential system basics -- Chapter 3. Support processes for electronic systems and software development -- Chapter 4. Core process for electronic systems and software engineering -- Chapter 5. Methods and tools for development -- Chapter 6. Methods and tools for production and service -- Chapter 7. Summary and outlook -- References -- Illustration credits -- List of acronyms -- Index -- About the authors.
Sommario/riassunto	The software-based implementation of vehicle functions provides for unparalleled freedoms of concept and design. However, automobile development calls for the accommodation of contrasting prerequisites

- such as higher demands on safety and reliability vs. lower cost ceilings, longer product life cycles vs. shorter development times - along with growing proliferation of model variants. Automotive Software Engineering has established its position at the center of these seemingly conflicting opposites. This book provides background basics as well as numerous suggestions, rare insights, and cases in point concerning those processes, methods, and tools that contribute to the surefooted mastery of the use of electronic systems and software in the contemporary automobile.