



Automotive Software Engineering: Principles, Processes, Methods, and Tools

Jorg Schauffele

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Since the early seventies, the development of the automobile has been characterized by a steady increase in the deployment of onboard electronic systems and software. This trend continues unabated and is driven by rising end-user demands and increasingly stringent environmental requirements. Today almost every function onboard the modern vehicle is electronically controlled or monitored. 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 a 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. Special emphasis is given to the electronic systems in powertrain, chassis, and body. The Contents The driver-vehicle-environment system Essential system basics Development processes for electronic systems and software Methods and tools used in the development, manufacture, and service of electronic systems The Readership Anyone working with automotive electronic systems and/or software in the automobile manufacturing and supply industry. Students of computer science, electrical engineering or mechanical engineering, majoring in automotive engineering or control engineering, mechatronics or software engineering.

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