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**Neville Stanton, Kirsten M. A.
Revell, Patrick Langdon**



Audi Infotainment Manual:

Model-Based Testing of Automotive HMIs with Consideration for Product Variability Linshu Duan, 2012-07-20

Die Mensch Maschine Schnittstellen HMIs von Infotainmentsystemen der heutigen Premiumfahrzeuge sind sehr komplexe und eingebettete Systeme. Sie haben im Vergleich mit herkömmlichen PC Applikationen besondere Eigenschaften insbesondere bezogen auf ihre Variabilität. Die Variabilität von Infotainmentsystem HMIs ergibt sich aus unterschiedlichen Fahrzeugmodellen, Produktserien, markten Ausstattungen, System sowie Sprachvarianten. Die hohe Anzahl der Varianten führt zu enorm hohem Testaufwand. Modellbasiertes Testen ist ein vielversprechender Ansatz, um den Testaufwand durch die automatische Testfallgenerierung und Testausführung zu reduzieren und gleichzeitig die Testabdeckung zu erhöhen. Während modellbasiertes Testen bereits für Funktionstests häufig eingesetzt wird, bleiben HMI Tests meist noch manuell oder teilweise automatisiert. Außerdem kann durch manuelles Testen eine systematische Testabdeckung nur sehr schwierig erreicht werden. Zahlreiche Forschungsarbeiten befassen sich mit dem GUI Testen. Variabilität ist im Bereich der Software Produktentwicklung ein immer beliebteres Forschungsthema. Ein modellbasierter Testansatz für komplexe HMIs mit Berücksichtigung der Variabilität ist allerdings immer noch nicht vorhanden. Diese Doktorarbeit präsentiert eine modellbasierte Testmethode für Infotainmentsystem HMIs mit dem besonderen Ziel, das Variabilitätsproblem zu lösen. Zusätzlich bietet diese Doktorarbeit eine Basis für zukünftiges HMI Testen in der Industrie an. Der Ansatz in dieser Doktorarbeit basiert auf einem modellbasierten HMI Testframework, das zwei essentielle Komponenten beinhaltet: eine testorientierte Spezifikation und eine Komponente zur Testgenerierung. Die testorientierte Spezifikation hat eine geschichtete Struktur und ist darauf ausgerichtet, die für Testen relevanten Daten zu spezifizieren. Sowohl dynamisches Menüverhalten als auch die Darstellung des HMI sind die Testziele. Die Testgenerierung erzeugt automatisch Tests aus der testorientierten HMI Spezifikation. Das Testframework kann um eine automatische Testausführung erweitert werden. Nachdem die generierten Tests instanziiert werden, ist es möglich, sie automatisch innerhalb eines Testautomatisierungsframeworks durchzuführen. Diese Doktorarbeit befasst sich mit Methoden, um die HMI Varianten effizient zu spezifizieren und zu testen, und basiert auf dem Ansatz für Software Produktlinien. Das bedeutet, die testorientierte Spezifikation ist erweitert, um sowohl die Gemeinsamkeiten als auch die Spezialitäten der Varianten zu beschreiben. Insbesondere werden Strategien entwickelt, um Tests für unterschiedliche Varianten der Produktlinien automatisch zu generieren. Die Besonderheit dabei ist, dass Redundanzen sowohl für den Generierungsvorgang als auch den Ausführungsvorgang vermieden werden können. Das ist wegen den eingeschränkten Ressourcen und aus Effizienzgründen besonders wichtig für die Industrie. Die Modellierung und das Testen von variantenreichen HMIs stellen die Hauptbeiträge dieser Dissertation dar. Die Ergebnisse dieser Doktorarbeit können hoffentlich als eine Grundlage für modellbasiertes Testen der multi varianten HMIs dienen und der Automotive Industrie eine Basis der zukünftigen HMI Testenstandards liefern.

The human machine interfaces HMIs of today's premium automotive

infotainment systems are complex embedded systems which have special characteristics in comparison to GUIs of standard PC applications in particular regarding their variability. The variability of infotainment system HMIs results from different car models, product series, markets, equipment configuration possibilities, system types and languages and necessitates enormous testing efforts. The model based testing approach is a promising solution for reducing testing efforts and increasing test coverage. However, while model based testing has been widely used for function tests of subsystems in practice, HMI tests have remained manual or only semi automated and are very time consuming and work intensive. Also, it is very difficult to achieve systematic or high test coverage via manual tests. A large amount of research work has addressed GUI testing in recent years. In addition, variability is becoming an ever more popular topic in the domain of software product line development. However, a model based testing approach for complex HMIs which also considers variability is still lacking. This thesis presents a model based testing approach for infotainment system HMIs with the particular aim of resolving the variability problem. Furthermore, the thesis provides a foundation for future standards of HMI testing in practice. The proposed approach is based on a model based HMI testing framework which includes two essential components: a test oriented HMI specification and a test generation component. The test oriented HMI specification has a layered structure and is suited to specifying data which is required for testing different features of the HMI. Both the dynamic behavior and the representation of the HMI are the testing focuses of this thesis. The test generation component automatically generates tests from the test oriented HMI specification. Furthermore, the framework can be extended in order to automatically execute the generated tests. Generated tests must first be initialized, which means that they are enhanced with concrete user input data. Afterwards, initialized tests can be automatically executed with the help of a test execution tool which must be extended into the testing framework. In this thesis, it is proposed to specify and test different HMI variants which have a large set of commonalities based on the software product line approach. This means the test oriented HMI specification is extended in order to describe the commonalities and variabilities between HMI variants of an HMI product line. In particular, strategies are developed in order to generate tests for different HMI products. One special feature is that redundancies are avoided both for the test generation and the execution processes. This is especially important for the industrial practice due to limited test resources. Modeling and testing variability of automotive HMIs make up the main research contributions of this thesis. We hope that the results presented in this thesis will offer GUI testing research a solution for model based testing of multi variant HMIs and provide the automotive industry with a foundation for future HMI testing standards.

Information Systems Security and Privacy Paolo Mori, Gabriele Lenzini, Steven Furnell, 2023-07-10. This book includes extended and revised versions of selected papers from the 7th and 8th edition of the International Conference on Information Systems Security and Privacy (ICISSP 2021 and ICISSP 2022). ICISSP 2021 and 2022 was held as an online event due to the Covid 19 pandemic from February 11-13, 2021 and February 9-11, 2022 respectively. The 6 full papers included in this book were

carefully reviewed and selected from 217 submissions The ICISSP 2021 and 2022 book contains extended and revised version of proceedings papers dealing with information systems security and privacy

The Handbook of Attention Jonathan Fawcett, Evan Risko, Alan Kingstone, 2015-11-13 An authoritative overview of current research on human attention emphasizing the relation between cognitive phenomena observed in the laboratory and in the real world Laboratory research on human attention has often been conducted under conditions that bear little resemblance to the complexity of our everyday lives Although this research has yielded interesting discoveries few scholars have truly connected these findings to natural experiences This book bridges the gap between laboratory and life by bringing together cutting edge research using traditional methodologies with research that focuses on attention in everyday contexts It offers definitive reviews by both established and rising research stars on foundational topics such as visual attention and cognitive control underrepresented domains such as auditory and temporal attention and emerging areas of investigation such as mind wandering and embodied attention The contributors discuss a range of approaches and methodologies including psychophysics mental chronometry stationary and mobile eye tracking and electrophysiological and functional brain imaging Chapters on everyday attention consider such diverse activities as driving shopping reading multitasking and playing videogames All chapters present their topics in the same overall format historical context current research the possible integration of laboratory and real world approaches future directions and key and outstanding issues Contributors Richard A Abrams Lewis Baker Daphne Bavelier Virginia Best Adam B Blake Paul W Burgess Alan D Castel Karen Collins Mike J Dixon Sidney K D Mello Julia F cker Charles L Folk Tom Foulsham Jonathan A Fugelsang Bradley S Gibson Matthias S Gobel Davood G Gozli Arthur C Graesser Peter A Hancock Kevin A Harrigan Simone G Heideman Cristy Ho Roxane J Itier Gustav Kuhn Michael F Land Mallorie Leinenger Daniel Levin Steven J Luck Gerald Matthews Daniel Memmert Stephen Monsell Meeneley Nazarian Anna C Nobre Andrew M Olney Kerri Pickel Jay Pratt Keith Rayner Daniel C Richardson Evan F Risko Barbara Shinn Cunningham Vivian Siu Jonathan Smallwood Charles Spence David Strayer Pedro Sztybel Benjamin W Tatler Eric T Taylor Jeff Templeton Robert Teszka Michel Wedel Blaire J Weidler Lisa Wojtowicz Jeremy M Wolfe Geoffrey F Woodman

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2016 Passenger Car and 2015 Concept Car Yearbook Automotive Engineering International, 2015-12-15 Carmakers release new models every year with advanced technology to attract consumer interest and to satisfy increasingly stringent government regulations Some of these technologies are firsts or leading edge and they start trends that more companies will soon follow Snapshots of the direction of the automotive industry along with OEM and supplier perspectives are presented in these articles that have been collected by the Editors of Automotive Engineering whose aim is to provide the reader with a complete overview of the key advances that took place over the course of one model year Provides a single

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Networking Vehicles to Everything Markus Mueck, Ingolf Karls, 2018 Intro Acknowledgments Contents Preface Chapter 1 Introduction Chapter 2 Applications and Use Cases Chapter 3 V2X Requirements Standards and Regulations Chapter 4 Technologies Chapter 5 V2X networking and connectivity Chapter 6 Infotainment Chapter 7 Software Reconfiguration Chapter 8 Outlook Appendix A Index

Machine Design, 2009

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Designing Interaction and Interfaces for Automated Vehicles Neville Stanton, Kirsten M. A. Revell, Patrick Langdon, 2021-03-10 Driving automation and autonomy are already upon us and the problems that were predicted twenty years ago are beginning to appear These problems include shortfalls in expected benefits equipment unreliability driver skill fade and error inducing equipment designs

Designing Interaction and Interfaces for Automated Vehicles User Centred Ecological Design and Testing investigates the difficult problem of how to interface drivers with automated vehicles by offering an inclusive human centred design process that focusses on human variability and capability in interaction with interfaces This book introduces a novel method that combines both systems thinking and inclusive user centred design It models driver interaction provides design specifications concept designs and the results of studies in simulators on the test track and in road going vehicles This book is for designers of systems interfaces interactions UX Human Factors and Ergonomics researchers and practitioners involved with systems engineering and automotive academics

In this book Prof Stanton and colleagues show how Human Factors methods can be applied to the tricky problem of interfacing human drivers with vehicle automation They have developed an approach to designing the human automation interaction for the handovers between the driver and the vehicle This approach has been tested in driving simulators and most interestingly in real vehicles on British motorways The approach called User Centred Ecological Interface Design has been validated against driver behaviour and used to support their ongoing work on vehicle automation I highly recommend this book for anyone interested or involved in designing human automation interaction in vehicles and beyond Professor

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