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Software Development Productivity

Katrina D. Maxwell

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Transformation-Oriented Programming: A Development Methodology for High Assurance Software

Victor L. Winter, Steve Roach and Greg Wickstrom

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Advances In Computers Highly Dependable Software

RD Boyd



Advances In Computers Highly Dependable Software:

Advances in Computers Marvin Zelkowitz, 2003-08-08 This volume describes various approaches towards software dependability development measurability transformation oriented programming bounded model checking GUI testing and the evolution of the various security policies that ensure appropriate secure behaviour *Highly Dependable Software* Marvin V. Zelkowitz, 2003 Since 1960 *Advances in Computers* has chronicled the constantly shifting theories and methods of Information Technology which greatly shapes our lives today *Highly Dependable Software* is the 58th volume in this Series The seven chapters describe various approaches towards dependability software development measurability transformation oriented programming Bounded Model Checking GUI testing history and lessons from software inspections impact and problems related to errors in software the evolution of the various security policies This book would be an invaluable addition to any university course in computer technology and an excellent reference tool for industrial practitioners Includes in depth surveys and tutorials on advances in Computer Technology Features the work of well known authors and researchers in the field Provides a broad overview of important developments Contains extensive bibliographies Runtime Verification Lu Feng, Dana Fisman, 2021-10-05 This book constitutes the refereed proceedings of the 21st International Conference on Runtime Verification RV 2021 held virtually during October 11 14 2021 The 11 regular papers and 7 short tool benchmark papers presented in this book were carefully reviewed and selected from 40 submissions Also included is one tutorial paper The RV conference is concerned with all aspects of monitoring and analysis of hardware software and more general system executions Concurrency, Graphs and Models Pierpaolo Degano, Rocco de Nicola, José Meseguer, 2008-06-11 This Festschrift volume published in honor of Ugo Montanari on the occasion of his 65th birthday contains 43 papers that examine the research areas to which he has contributed from logic programming to software engineering as well as his many achievements **Networking and Information Technology Research and Development** National Science and Technology Council (U.S.). Subcommittee on Networking and Information Technology Research and Development, 2005

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 Märkten 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 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 beliebter 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 modellbasiertem HMI Testframework das zwei essentielle Komponenten beinhaltet eine Test orientierte Spezifikation und eine Komponente zur Testgenerierung Die Test orientierte 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 Test orientierten 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 Ansatz für Software Produktlinien Das bedeutet die Test orientierte 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 Lösung 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 modelbased 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

Networking and Information Technology Research and Development ,2008-10 This annual report on the multi agency Networking and Information Technology R high end computing R large scale networking human computer interaction and information management high confidence software and systems software design and productivity and social economic and workforce implications of IT and IT workforce development *Information Security and Ethics: Concepts, Methodologies, Tools, and Applications* Nemati, Hamid,2007-09-30 Presents theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies standards and best practices Provides recent comprehensive coverage of all issues related to information security and ethics as well as the opportunities future challenges and emerging trends related to this subject

Enterprise Information Systems Assurance and System Security: Managerial and Technical Issues Warkentin, Merrill,Vaughn, Rayford,2006-02-28 This book brings together authoritative authors to address the most pressing challenge in the IT field how to create secure environments for the application of technology to serve our future needs Provided by publisher [Guide to the NITRD Program FY 2004 - FY 2005](#) National Science and Technology Council (U.S.). Interagency Working Group on Information Technology Research and Development,2004

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