

Runtime Software

Vittorio Ferretti

Formal Approaches to Software Testing and Runtime Verification Klaus Havelund, Manuel Núñez, Grigore Rosu, Burkhart Wolff, 2006-12-07 This book constitutes the thoroughly refereed post-proceedings of the First Combined International Workshops on Formal Approaches to Software Testing, FATES 2006, and on Runtime Verification, RV 2006, held within the scope of FLoC 2006, the Federated Logic Conference in Seattle, WA, USA in August 2006. Coverage discusses formal approaches to test and analyze programs and monitor and guide their executions by using various techniques.

Runtime Verification Shuvendu Lahiri, Giles Reger, 2017-09-04 This book constitutes the refereed proceedings of the 17th International Conference on Runtime Verification, RV 2017, held in Seattle, WA, USA, in September 2017. The 18 revised full papers presented together with 3 invited presentations, 4 short papers, 5 tool papers, and 3 tutorials, were carefully reviewed and selected from 58 submissions. The RV conference is concerned with all aspects of monitoring and analysis of hardware, software and more general system executions. Runtime verification techniques are lightweight techniques to assess correctness, reliability, and robustness; these techniques are significantly more powerful and versatile than conventional testing, and more practical than exhaustive formal verification.

Model-driven engineering of adaptation engines for self-adaptive software Thomas Vogel, Holger Giese, 2013 The development of self-adaptive software requires the engineering of an adaptation engine that controls and adapts the underlying adaptable software by means of feedback loops. The adaptation engine often describes the adaptation by using runtime models representing relevant aspects of the adaptable software and particular activities such as analysis and planning that operate

on these runtime models. To systematically address the interplay between runtime models and adaptation activities in adaptation engines, runtime megamodels have been proposed for self-adaptive software. A runtime megamodel is a specific runtime model whose elements are runtime models and adaptation activities. Thus, a megamodel captures the interplay between multiple models and between models and activities as well as the activation of the activities. In this article, we go one step further and present a modeling language for Executable Runtime Megamodels (EUREMA) that considerably eases the development of adaptation engines by following a model-driven engineering approach. We provide a domain-specific modeling language and a runtime interpreter for adaptation engines, in particular for feedback loops. Megamodels are kept explicit and alive at runtime and by interpreting them, they are directly executed to run feedback loops. Additionally, they can be dynamically adjusted to adapt feedback loops. Thus, EUREMA supports development by making feedback loops, their runtime models, and adaptation activities explicit at a higher level of abstraction. Moreover, it enables complex solutions where multiple feedback loops interact or even operate on top of each other. Finally, it leverages the co-existence of self-adaptation and off-line adaptation for evolution.

Extending a dynamic programming language and runtime environment with access control
Tessenow, Philipp, Felgentreff, Tim, Bracha, Gilad, Hirschfeld, Robert, 2016-11-09 Complexity in software systems is a major factor driving development and maintenance costs. To master this complexity, software is divided into modules that can be developed and tested separately. In order to support this separation of modules, each module should provide a clean and concise public interface. Therefore, the ability to selectively hide functionality using access control is an important feature in a programming language intended for complex software systems. Software systems are increasingly

distributed, adding not only to their inherent complexity, but also presenting security challenges. The object-capability approach addresses these challenges by defining language properties providing only minimal capabilities to objects. One programming language that is based on the object-capability approach is Newspeak, a dynamic programming language designed for modularity and security. The Newspeak specification describes access control as one of Newspeak's properties, because it is a requirement for the object-capability approach. However, access control, as defined in the Newspeak specification, is currently not enforced in its implementation. This work introduces an access control implementation for Newspeak, enabling the security of object-capabilities and enhancing modularity. We describe our implementation of access control for Newspeak. We adapted the runtime environment, the reflective system, the compiler toolchain, and the virtual machine. Finally, we describe a migration strategy for the existing Newspeak code base, so that our access control implementation can be integrated with minimal effort.

Runtime Verification Saddek Bensalem, Doron A. Peled, 2009-09-29 The RV series of workshops brings together researchers from academia and industry that are interested in runtime verification. The goal of the RV workshops is to study the ability to apply lightweight formal verification during the execution of programs. This approach complements the offline use of formal methods, which often use large resources. Runtime verification methods and tools include the instrumentation of code with pieces of software that can help to test and monitor it online and detect, and sometimes prevent, potential faults. RV 2009 was held during June 26–28 in Grenoble, adjacent to CAV 2009. The program included 11 accepted papers. Two invited talks were given by Amir Pnueli, on “Compositional Approach to Monitoring Linear Temporal Logic Properties” and Sriram Rajamani on “Verification, Testing and Statistics.” The program also included three tutorials. We would like to

thank the members of the Program Committee and additional referees for the reviewing and participation in the discussions.

Runtime Verification Koushik Sen, Sarfaz Khurshid, 2012-05-12 This book constitutes the thoroughly refereed post-conference proceedings of the Second International Conference on Runtime Verification, RV 2011, held in San Francisco, USA, in September 2011. The 24 revised full papers presented together with 3 invited papers, 4 tutorials and 4 tool demonstrations were carefully reviewed and selected from 71 submissions. The papers are organized in topical sections on parallelism and deadlocks, malware detection, temporal constraints and concurrency bugs, sampling and specification conformance, real-time, software and hardware systems, memory transactions, tools; foundational techniques and multi-valued approaches.

Models@run.time Nelly Bencomo, Robert B. France, Betty H.C. Cheng, Uwe Aßmann, 2014-07-05 Traditionally, research on model-driven engineering (MDE) has mainly focused on the use of models at the design, implementation, and verification stages of development. This work has produced relatively mature techniques and tools that are currently being used in industry and academia. However, software models also have the potential to be used at runtime, to monitor and verify particular aspects of runtime behavior, and to implement self-* capabilities (e.g., adaptation technologies used in self-healing, self-managing, self-optimizing systems). A key benefit of using models at runtime is that they can provide a richer semantic base for runtime decision-making related to runtime system concerns associated with autonomic and adaptive systems. This book is one of the outcomes of the Dagstuhl Seminar 11481 on models@run.time held in November/December 2011, discussing foundations, techniques, mechanisms, state of the art, research challenges, and applications for the use of runtime models. The book comprises four research roadmaps, written by

the original participants of the Dagstuhl Seminar over the course of two years following the seminar, and seven research papers from experts in the area. The roadmap papers provide insights to key features of the use of runtime models and identify the following research challenges: the need for a reference architecture, uncertainty tackled by runtime models, mechanisms for leveraging runtime models for self-adaptive software, and the use of models at runtime to address assurance for self-adaptive systems.

Runtime Verification Martin Leucker, 2008-10-23 This book constitutes the thoroughly refereed post-proceedings of the 8th International Workshop on Runtime Verification, RV 2008, held in Budapest, Hungary, in March 2008 as satellite event of ETAPS 2008. The 9 revised full papers presented together with 2 invited papers were carefully selected from 27 initial submissions. The subject covers several technical fields such as runtime verification, runtime checking, runtime monitoring, and security and safety matters.

Runtime Verification Ezio Bartocci, Rupak Majumdar, 2015-09-19 This book constitutes the refereed proceedings of the 6th International Conference on Runtime Verification, RV 2015, held in Vienna, Austria, in September 2015. The 15 revised full papers presented together with 4 short papers, 2 tool papers, 4 tutorials, 3 invited talks, and 2 software competition papers were carefully reviewed and selected from 45 submissions. The discussion of the conference centers around two main aspects. The first is to understand whether the runtime verification techniques can practically complement the traditional methods proving programs correct before their execution, such as model checking and theorem proving. The second concerns with formal methods and how their application can improve traditional ad-hoc monitoring techniques used in performance monitoring, hardware design emulation and simulation, etc.

Runtime Verification Axel Legay, Saddek Bensalem, 2013-09-19 This book constitutes the refereed proceedings of the 4th International Conference on Runtime Verification, RV 2013, held in Rennes, France, in September 2013. The 24 revised full papers presented together with 3 invited papers, 2 tool papers, and 6 tutorials were carefully reviewed and selected from 58 submissions. The papers address a wide range of specification languages and formalisms for traces; specification mining; program instrumentation; monitor construction techniques; logging, recording, and replay; fault detection, localization, recovery, and repair; program steering and adaptation; as well as metrics and statistical information gathering; combination of static and dynamic analyses and program execution visualization.

Managed Code Rootkits Erez Metula, 2010-11-25 Managed Code Rootkits is the first book to cover application-level rootkits and other types of malware inside the application VM, which runs a platform-independent programming environment for processes. The book, divided into four parts, points out high-level attacks, which are developed in intermediate language. The initial part of the book offers an overview of managed code rootkits. It explores environment models of managed code and the relationship of managed code to rootkits by studying how they use application VMs. It also discusses attackers of managed code rootkits and various attack scenarios. The second part of the book covers the development of managed code rootkits, starting with the tools used in producing managed code rootkits through their deployment. The next part focuses on countermeasures that can possibly be used against managed code rootkits, including technical solutions, prevention, detection, and response tactics. The book concludes by presenting techniques that are somehow similar to managed code rootkits, which can be used in solving problems. Named a 2011 Best Hacking and Pen Testing Book by InfoSec Reviews Introduces the reader briefly to managed code environments and rootkits in

general Completely details a new type of rootkit hiding in the application level and demonstrates how a hacker can change language runtime implementation Focuses on managed code including Java, .NET, Android Dalvik and reviews malware development scenarios

High Performance Parallel Runtimes Michael Klemm,Jim Cownie,2021-02-08 This book focuses on the theoretical and practical aspects of parallel programming systems for today's high performance multi-core processors and discusses the efficient implementation of key algorithms needed to implement parallel programming models. Such implementations need to take into account the specific architectural aspects of the underlying computer architecture and the features offered by the execution environment. This book briefly reviews key concepts of modern computer architecture, focusing particularly on the performance of parallel codes as well as the relevant concepts in parallel programming models. The book then turns towards the fundamental algorithms used to implement the parallel programming models and discusses how they interact with modern processors. While the book will focus on the general mechanisms, we will mostly use the Intel processor architecture to exemplify the implementation concepts discussed but will present other processor architectures where appropriate. All algorithms and concepts are discussed in an easy to understand way with many illustrative examples, figures, and source code fragments. The target audience of the book is students in Computer Science who are studying compiler construction, parallel programming, or programming systems. Software developers who have an interest in the core algorithms used to implement a parallel runtime system, or who need to educate themselves for projects that require the algorithms and concepts discussed in this book will also benefit from reading it. You can find the source code for this book at <https://github.com/parallel-runtimes/lomp>.

Runtime Verification Christian Colombo,Martin Leucker,2018-11-07 This book constitutes the

refereed proceedings of the 18th International Conference on Runtime Verification, RV 2018, held in Limassol, Cyprus, in November 2018. The 21 full papers presented together with 3 short papers and 3 tool papers were carefully reviewed and selected from 49 submissions. The RV conference is concerned with all aspects of monitoring and analysis of hardware, software and more general system executions. Runtime verification techniques are lightweight techniques to assess correctness, reliability, and robustness; these techniques are significantly more powerful and versatile than conventional testing, and more practical than exhaustive formal verification. Chapter “Hardware-based Runtime Verification with Embedded Tracing Units and Stream Processing” is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Input/Output Intensive Massively Parallel Computing Peter Brezany, 1997-04-09 Massively parallel processing is currently the most promising answer to the quest for increased computer performance. This has resulted in the development of new programming languages and programming environments and has stimulated the design and production of massively parallel supercomputers. The efficiency of concurrent computation and input/output essentially depends on the proper utilization of specific architectural features of the underlying hardware. This book focuses on development of runtime systems supporting execution of parallel code and on supercompilers automatically parallelizing code written in a sequential language. Fortran has been chosen for the presentation of the material because of its dominant role in high-performance programming for scientific and engineering applications.

Runtime Verification Howard Barringer, Ylies Falcone, Bernd Finkbeiner, Klaus Havelund, Insup Lee, Gordon Pace, Grigore Rosu, Oleg Sokolsky, Nikolai Tillmann, 2010-10-19 This book constitutes the thoroughly refereed conference proceedings of the First International Conference on Runtime

Verification, RV 2010, held in St. Julians, Malta, in November 2010. The 23 revised full papers presented together with 6 invited papers, 6 tutorials and 4 tool demonstrations were carefully reviewed and selected from 74 submissions. The papers address a wide range of topics such as runtime monitoring, analysis and verification, statically and dynamical, runtime simulations, together with applications in malware analysis and failure recovery, as well as execution tracing in embedded systems.

Runtime Verification Shaz Qadeer, Serdar Tasiran, 2013-01-16 This book constitutes the thoroughly refereed post-conference proceedings of the Third International Conference on Runtime Verification, RV 2012, held in Istanbul, Turkey, in September 2012. The 25 revised full papers presented together with 3 invited papers and 2 tutorials were carefully reviewed and selected from 50 submissions. The papers address a wide range of specification languages and formalisms for traces, specification mining, program instrumentation, monitor construction techniques, logging, recording, and replay, fault detection, localization, recovery and repair, program steering and adaptation, metrics and statistical information gathering, combination of static and dynamic analyses and program execution visualization.

Runtime Verification Yliès Falcone, César Sánchez, 2016-09-19 This book constitutes the refereed proceedings of the 16th International Conference on Runtime Verification, RV 2016, held in Madrid, Spain, in September 2016. The 18 revised full papers presented together with 4 short papers, 3 tool papers, 2 tool demonstration papers, and 5 tutorials, were carefully reviewed and selected from 72 submissions. The RV conference is concerned with all aspects of monitoring and analysis of hardware, software and more general system executions. Runtime verification techniques are lightweight techniques to assess correctness, reliability, and robustness; these techniques are significantly more

powerful and versatile than conventional testing, and more practical than exhaustive formal verification.

Exploring the .NET Core 3.0 Runtime Roger Villela, 2019-09-06 Explore advanced .NET APIs and create a basic .NET core library with dynamic code generation and metadata inspection to be used by other libraries or client applications. This book starts with the benefits of .NET including its fundamental tasks and tools where you will learn .NET SDK tools and the ILDasm tool. This is followed by a detailed discussion on code generation in .NET API programming. Along the way, you will learn how to build a programming model through a code-generator tool and metadata inspector tool using .NET version information for .NET assembly and binary code. Exploring the .NET Core 3.0 Runtime covers the features of Microsoft Visual Studio 2019 using a tutorial and shows you how to create a .NET Core 3.0 application. Here you will configure and deploy your .NET projects along with meta packages and see some do's and don'ts. Finally, you will compare the features of .NET Core 3.0 with the .NET Framework library and its GUI frameworks. After reading this book, you will be able to work in a .NET 3.0 environment and program for its two advanced features: code generation and metadata inspection. What You Will Learn Understand the inner workings of an assembly's structural organization Work with reflection through the .NET Core platform Carry out dynamic code generation using the .NET Core API's code document model (CodeDOM) Use the metadata mechanism of the .NET Core platform Who This Book Is For Software developers and engineers using .NET and/or the .NET Core platform and tools.

Runtime Verification Borzoo Bonakdarpour, Scott A. Smolka, 2014-09-12 This book constitutes the refereed proceedings of the 5th International Conference on Runtime Verification, RV 2014, held in Toronto, ON, Canada in September 2014. The 28 revised full papers presented together with 2 tool

papers, and 8 short papers were carefully reviewed and selected from 70 submissions. The scope of the conference was on following topics: monitoring and trace slicing, runtime verification of distributed and concurrent systems, runtime Verification of real-time and embedded systems, testing and bug finding, and inference and learning.

Wörterbuch der Datentechnik / Dictionary of Computing Vittorio Ferretti, 2013-03-08 Der FERRETTI bietet mehr als eine Übersetzungshilfe für deutsche und englische Fachbegriffe. 92.000 Stichwörter mit Kurzdefinitionen und Synonymen machen diese aktuelle Teilausgabe des erfolgreichen Wörterbuch der Elektronik, Datentechnik und Telekommunikation zum einzigartig umfassenden Nachschlagewerk der gesamten Informatik. Die 44.000 deutschen und 48.000 englischen Einträge decken zusätzlich die Hauptbegriffe der angrenzenden Fachgebiete und des allgemeinen Sprachgebrauchs ab. Zu insgesamt 94 Fachgebieten lassen sich alle datentechnischen Fragen schnell und kompetent lösen - ein schier unerschöpflicher Fundus für jeden, der hier nachschlägt.

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