

Model Based Engineering With AADL An Introduction To The SAE Architecture Analysis Design Language

Software Architecture. ECSA 2022 Tracks and Workshops Thais Batista 2023-07-15 This book constitutes the refereed proceedings of the tracks and workshops which complemented the 16th European Conference on Software Architecture, ECSA 2022, held in Prague, Czech Republic, in September 2022. The 26 full papers presented together with 4 short papers and 2 tutorial papers in this volume were carefully reviewed and selected from 61 submissions. Papers presented were accepted into the following tracks and workshops: Industry track; Tools and Demonstrations Track; Doctoral Symposium; Tutorials; 8th International Workshop on Automotive System/Software Architectures (WASA); 5th Context-Aware, Autonomous and Smart Architectures International Workshop (CASA); 6th International Workshop on Formal Approaches for Advanced Computing Systems (FAACS); 3rd Workshop on Systems, Architectures, and Solutions for Industry 4.0 (SASI4); 2nd International Workshop on Designing and Measuring Security in Software Architectures (DeMeSSA); 2nd International Workshop on Software Architecture and Machine Learning (SAML); 9th Workshop on Software Architecture Erosion and Architectural Consistency (SAEroCon); 2nd International Workshop on Mining Software Repositories for Software Architecture (MSR4SA); and 1st International Workshop on Digital Twin Architecture (TwinArch).

Formal Aspects of Component Software Kyungmin Bae
2018-10-06 This book constitutes the refereed proceedings from the 15th International Conference on Formal Aspects of Component Software, FACS 2018, held in Pohang, South Korea, in October 2018. The 14 full papers presented together with an invited abstract and an invited paper were carefully reviewed and selected from 32 submissions. FACS 2016 is concerned with how formal methods can be used to make component-based and service-oriented software development succeed. Formal methods have provided a foundation for component-based software by successfully addressing challenging issues such as mathematical models for components, composition and adaptation, or rigorous approaches to verification, deployment, testing, and certification.

Modelling Foundations and Applications Anthony Anjorin
2017-07-03 This book constitutes the proceedings of the 13th European Conference on Modelling Foundations and Applications, ECMFA 2017, held as part of STAF 2017, in Marburg, Germany, in July 2017. The 18 papers presented in this volume were carefully reviewed and selected from 48 submissions. The papers are organized in the following topical sections: meta-modeling and language engineering; model evolution and maintenance; model-driven generative development; model consistency management; model verification and analysis; and experience reports, case studies and new applications scenarios.

Computer Safety, Reliability, and Security Ibrahim Habli
2021-08-25 This book constitutes the proceedings of the 40th International Conference on Computer Safety, Reliability and Security, SAFECOMP 2021, which took place in York, UK, in September 2021. The 17 full papers included in this volume were carefully reviewed and selected from 76 submissions. They were organized in topical sections as follows: machine learning safety assurance; security engineering; safety and assurance cases; machine learning applications; safety validation and simulation;

and fault tolerance.

Model and Data Engineering Yassine Ouhammou 2017-09-18

This book constitutes the refereed proceedings of the 7th International Conference on Model and Data Engineering, MEDI 2017, held in Barcelona, Spain, in October 2017. The 20 full papers and 7 short papers presented together with 2 invited talks were carefully reviewed and selected from 69 submissions. The papers are organized in topical sections on domain specific languages; systems and software assessments; modeling and formal methods; data engineering; data exploration and exploitation; modeling heterogeneity and behavior; model-based applications; and ontology-based applications.

Foundations of Multi-Paradigm Modelling for Cyber-Physical Systems Paulo Carreira 2020-05-07

This open access book coherently gathers well-founded information on the fundamentals of and formalisms for modelling cyber-physical systems (CPS). Highlighting the cross-disciplinary nature of CPS modelling, it also serves as a bridge for anyone entering CPS from related areas of computer science or engineering. Truly complex, engineered systems—known as cyber-physical systems—that integrate physical, software, and network aspects are now on the rise. However, there is no unifying theory nor systematic design methods, techniques or tools for these systems. Individual (mechanical, electrical, network or software) engineering disciplines only offer partial solutions. A technique known as Multi-Paradigm Modelling has recently emerged suggesting to model every part and aspect of a system explicitly, at the most appropriate level(s) of abstraction, using the most appropriate modelling formalism(s), and then weaving the results together to form a representation of the system. If properly applied, it enables, among other global aspects, performance analysis, exhaustive simulation, and verification. This book is the first systematic attempt to bring together these formalisms for anyone starting in the field of CPS who seeks solid modelling foundations

and a comprehensive introduction to the distinct existing techniques that are multi-paradigmatic. Though chiefly intended for master and post-graduate level students in computer science and engineering, it can also be used as a reference text for practitioners.

Advances in Model and Data Engineering in the Digitalization Era

Ladjel Bellatreche 2021-10-06 This book constitutes the thoroughly refereed papers of the workshops held at the 10th International Conference on New Trends in Model and Data Engineering, MEDI 2021, held in Tallinn, Estonia, in June 2021: Workshop on moDeling, vErification and Testing of dEpendable CriTical systems, DETECT 2021; Symposium on Intelligent and Autonomous Systems, SIAS 2021; Worjshop on Control Software: Methods, Models, and Languages, CSMML 2021; Blockchain for Inter-Organizational Collaboration, BIOC 2021; The International Health Data Workshop, HEDA 2021. The 20 full and the 4 short workshop papers presented were carefully reviewed and selected from 61 submissions. The papers are organized according to the workshops: Workshop on moDeling, vErification and Testing of dEpendable CriTical systems, DETECT 2021; Symposium on Intelligent and Autonomous Systems, SIAS 2021; Worjshop on Control Software: Methods, Models, and Languages, CSMML 2021; Blockchain for Inter-Organizational Collaboration, BIOC 2021; The International Health Data Workshop, HEDA 2021.

MontiArc - Architectural Modeling and Simulation of Interactive Distributed Systems Arne Haber 2016-09-02

Formal ADLs offer great potential to analyse the architecture of a system, predict the overall performance by using simulations, and allow to automatically generate parts of the implementation. Nevertheless, ADLs are rather not used in industrial practice since several problems hinder to exploit their potential to the full extend. This thesis elaborates the design of an ADL that copes with these impediments of ADLs in practice. Therefore, the design of a lightweight ADL is derived which also provides well

defined extension points to be adapted to a certain domain or development process. Furthermore, it is investigated how architectural modeling can be enriched with agile development methods to support incremental modeling and the validation of system architectures. Therefore, a set detailed of requirements for architectural modeling and the simulation of system architectures is defined and MontiArc, a concrete ADL to model logical architectures of distributed, interactive systems, is derived. The language is based on the mathematical FOCUS [BS01] framework, which allows to simulate modeled systems in an event-based style. Code generators and a simulation framework provide means to continuously refine and test architectural models. To add new features or adapt the language to a new domain, a corresponding language extension method is presented to extend the syntax, language processing tools, and code generators of the ADL. A lightweight model library concept is presented which allows to develop and reuse component models and their implementation in a controlled and transparent way. The developed language, the simulator, and the language extension techniques have been examined in several case studies which either used or extended MontiArc.

Computational Intelligence in Data Mining—Volume 2 Himansu Sekhar Behera 2015-12-09 The book is a collection of high-quality peer-reviewed research papers presented in the Second International Conference on Computational Intelligence in Data Mining (ICCIDM 2015) held at Bhubaneswar, Odisha, India during 5 - 6 December 2015. The two-volume Proceedings address the difficulties and challenges for the seamless integration of two core disciplines of computer science, i.e., computational intelligence and data mining. The book addresses different methods and techniques of integration for enhancing the overall goal of data mining. The book helps to disseminate the knowledge about some innovative, active research directions in the field of data mining, machine and computational intelligence,

along with some current issues and applications of related topics.

Dependability Problems of Complex Information Systems
Wojciech Zamojski 2014-07-11 This monograph presents original research results on selected problems of dependability in contemporary Complex Information Systems (CIS). The ten chapters are concentrated around the following three aspects: methods for modelling of the system and its components, tasks - or in more generic and more adequate interpretation, functionalities - accomplished by the system and conditions for their correct realization in the dynamic operational environment. While the main focus is on theoretical advances and roadmaps for implementations of new technologies, a much needed forum for sharing of the best practices is also presented. CIS systems, being the most complex yet most reliable technical structures engineered by man, present many challenges throughout their lifecycle. Difficulties in modelling, design, implementation and maintenance come not only from involved, widely distributed technical and organizational structures (comprising both hardware and software resources), but even more from complexity of the information processes (data processing, monitoring, resource allocation, dynamic reconfiguration, etc.) which are realized in the operational, often hostile environment. Furthermore, all the issues need to be dealt with taking into account a number of additional factors, such as uncertainties of human interactions, safety criteria and security demands or economic and environmental constrains.

Model-Based Safety and Assessment Marco Bozzano 2017-09-01 This book constitutes the proceedings of the 5th International Symposium on Model-Based Safety and Assessment, IMBSA 2017, held in Trento, Italy, in September 2017. The 17 revised full papers presented were carefully reviewed and selected from 29 initial submissions. The papers are organized in topical sections on safety process; safety models and languages; fault detection and propagation; safety assessment in the automotive domain;

and case studies.

Handbook of Real-Time Computing Yu-Chu Tian 2022-08-08

The aim of this handbook is to summarize the recent rapidly developed real-time computing technologies, from theories to applications. This handbook benefits the readers as a full and quick technical reference with a high-level historic review of technology, detailed technical descriptions and the latest practical applications. In general, the handbook is divided into three main parts (subjected to be modified): theory, design, and application covering different but not limited to the following topics: - Real-time operating systems - Real-time scheduling - Timing analysis - Programming languages and run-time systems - Middleware systems - Design and analysis tools - Real-time aspects of wireless sensor networks - Energy aware real-time methods

Model-Driven Engineering and Software Development Slimane Hammoudi 2020-01-03 This book constitutes thoroughly revised and selected papers from the 7th International Conference on Model-Driven Engineering and Software Development, MODELSWARD 2019, held in Prague, Czech Republic, in February 2019. The 16 thoroughly revised and extended papers presented in this volume were carefully reviewed and selected from 76 submissions. They address some of the most relevant challenges being faced by researchers and practitioners in the field of model-driven engineering and software development and cover topics like language design and tooling; programming support tools; code and text generation from models, behavior modeling and analysis; model transformations and multi-view modeling; as well as applications of MDD and its related techniques to cyber-physical systems, cyber security, IoT, autonomous vehicles and healthcare.

Software Engineering and Formal Methods Frank de Boer 2020-09-11 This book constitutes the refereed proceedings of the 18th International Conference on Software Engineering and

Formal Methods, SEFM 2020, held in Amsterdam, The Netherlands, in September 2020. The 16 full papers presented together with 1 keynote talk and an abstract of a keynote talk were carefully reviewed and selected from 58 submissions. The papers cover a large variety of topics, including testing, formal verification, program analysis, runtime verification, meta-programming and software development and evolution. The papers address a wide range of systems, such as IoT systems, human-robot interaction in healthcare scenarios, navigation of maritime autonomous systems, and operating systems. The Chapters "Multi-Purpose Syntax Definition with SDF3", "FRed: Conditional Model Checking via Reducers and Folders" and "Difference Verification with Conditions" are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

The Architecture Analysis & Design Language (AADL) Peter H. Feiler 2006 Abstract: "In November 2004, the Society of Automotive Engineers (SAE) released the aerospace standard AS5506, named the Architecture Analysis & Design Language (AADL). The AADL is a modeling language that supports early and repeated analyses of a system's architecture with respect to performance-critical properties through an extendable notation, a tool framework, and precisely defined semantics. The language employs formal modeling concepts for the description and analysis of application system architectures in terms of distinct components and their interactions. It includes abstractions of software, computational hardware, and system components for (a) specifying and analyzing real-time embedded and high dependability systems, complex systems of systems, and specialized performance capability systems and (b) mapping of software onto computational hardware elements. The AADL is especially effective for model-based analysis and specification of complex real-time embedded systems. This technical note is an introduction to the concepts, language structure, and application

of the AADL."

Leveraging Applications of Formal Methods, Verification and Validation. Software Engineering Tiziana Margaria

2022-10-19 This four-volume set LNCS 13701-13704 constitutes contributions of the associated events held at the 11th International Symposium on Leveraging Applications of Formal Methods, ISoLA 2022, which took place in Rhodes, Greece, in October/November 2022. The contributions in the four-volume set are organized according to the following topical sections: specify this - bridging gaps between program specification paradigms; x-by-construction meets runtime verification; verification and validation of concurrent and distributed heterogeneous systems; programming - what is next: the role of documentation; automated software re-engineering; DIME day; rigorous engineering of collective adaptive systems; formal methods meet machine learning; digital twin engineering; digital thread in smart manufacturing; formal methods for distributed computing in future railway systems; industrial day.

Leveraging Applications of Formal Methods, Verification and Validation Tiziana Margaria

2021-10-11 This book constitutes contributions of the ISoLA 2021 associated events. Altogether, ISoLA 2021 comprises contributions from the proceedings originally foreseen for ISoLA 2020 collected in 4 volumes, LNCS 12476: Verification Principles, LNCS 12477: Engineering Principles, LNCS 12478: Applications, and LNCS 12479: Tools and Trends. The contributions included in this volume were organized in the following topical sections: 6th International School on Tool-Based Rigorous Engineering of Software Systems; Industrial Track; Programming: What is Next; Software Verification Tools; Rigorous Engineering of Collective Adaptive Systems.

An Extensible Component & Connector Architecture Description Infrastructure for Multi-Platform Modeling Andreas Wortmann

2016-11-08 Software engineering for complex systems requires

abstraction, multi-domain expertise, separation of concerns, and reuse. Domain experts rarely are software engineers and should formulate solutions using their domain's vocabulary instead of general purpose programming languages (GPLs). Successful integration of domain-specific languages (DSLs) into a software system requires a separation of concerns between domain issues and integration issues while retaining a loose enough coupling to support DSL reuse in different contexts. Component-based software engineering (CBSE) increases reuse and separation of concerns by encapsulating functionalities in components. Components are GPL artifacts, which raises accidental complexities. Model-driven engineering (MDE) abstracts from GPLs by lifting models to primary development artifacts. Models can be abstract and better comprehensible by using domain vocabulary instead of a GPL. They can be platform-independent and translated into GPLs for different target platforms. Component & connector (C&C) architecture description languages (ADLs) combine CBSE and MDE to compose of architectures from component models. We present concepts for engineering software systems with exchangeable component behavior languages. The concepts are realized in a software architecture modeling infrastructure that comprises modeling languages to develop applications based on C&C software architectures with exchangeable component behavior DSLs. It supports transformations from platform-independent to platform-specific software architectures and compositional code generation. With this, it enables domain experts to (re-)use the most appropriate component behavior DSL and facilitates composition of domain solutions through encapsulation in components.

Computer Safety, Reliability, and Security Barbara Gallina
2018-09-03 This book constitutes the refereed proceedings of five workshops co-located with SAFECOMP 2018, the 37th International Conference on Computer Safety, Reliability, and

Security, held in Västerås, Sweden, in September 2018. The 28 revised full papers and 21 short papers presented together with 5 introductory papers to each workshop were carefully reviewed and selected from 73 submissions. This year's workshops are: ASSURE 2018 - Assurance Cases for Software-Intensive Systems; DECSoS 2018 - ERCIM/EWICS/ARTEMIS Dependable Smart Embedded and Cyber-Physical Systems and Systems-of-Systems; SASSUR 2018 - Next Generation of System Assurance Approaches for Safety-Critical Systems; STRIVE 2018 - Safety, securiTy, and pRivacy In automotiVe systEmS; and WAISE 2018 - Artificial Intelligence Safety Engineering. The chapter "Boxing Clever": Practical Techniques for Gaining Insights into Training Data and Monitoring Distribution Shift' is available open access under an Open Government License via link.springer.com.

Computer Safety, Reliability, and Security Alexander Romanovsky 2019-09-02 This book constitutes the proceedings of the 38th International Conference on Computer Safety, Reliability and Security, SAFECOMP 2019, held in Turku, Finland, in September 2019. The 16 full and 5 short papers included in this volume were carefully reviewed and selected from 65 submissions. They were organized in topical sections named: formal verification; autonomous driving; safety and reliability modeling; security engineering and risk assessment; safety argumentation; verification and validation of autonomous systems; and interactive systems and design validation.

Software Engineering in Health Care Michaela Huhn 2017-07-26 This book constitutes revised selected papers from the jointly held conferences FHIES 2014, 4th International Symposium on Foundations of Health Information Engineering and Systems, and SEHC 2014, 6th International Workshop on Software Engineering in Health Care. The meeting took place in Washington, DC, USA, in July 2014. The 16 papers presented in this volume were carefully reviewed and selected from 23 submissions. They deal with security aspects of health

information systems; medical devices in cyberphysical systems; the process of providing healthcare and of monitoring patients; and patient safety and the assurance of medical systems.

Formal Methods for Industrial Critical Systems Alessandro Cimatti

Applied Computer Sciences in Engineering Juan Carlos Figueroa-García 2017-01-02 This book constitutes the refereed proceedings of the Third Workshop on Engineering Applications, WEA 2016, held in Bogotá, Colombia, in September 2016. The 35 revised full papers presented were carefully reviewed and selected from 128 submissions. The papers are organized in topical sections on computer science; computational intelligence; simulation systems; fuzzy sets and systems; power systems; miscellaneous applications.

Risk, Reliability and Safety: Innovating Theory and Practice

Lesley Walls 2016-11-25 Risk, Reliability and Safety contains papers describing innovations in theory and practice contributed to the scientific programme of the European Safety and Reliability conference (ESREL 2016), held at the University of Strathclyde in Glasgow, Scotland (25—29 September 2016). Authors include scientists, academics, practitioners, regulators and other key individuals with expertise and experience relevant to specific areas. Papers include domain specific applications as well as general modelling methods. Papers cover evaluation of contemporary solutions, exploration of future challenges, and exposition of concepts, methods and processes. Topics include human factors, occupational health and safety, dynamic and systems reliability modelling, maintenance optimisation, uncertainty analysis, resilience assessment, risk and crisis management.

Architecture Description Languages Pierre Dissaux

2005-03-10 Architecture Description Languages is an essential reference for both academic and professional researchers in the field of system engineering and design. The papers presented in

this volume were selected from the workshop of the same name that was held as part of the World Computer Congress 2004 Conference, held in Toulouse, France in August 2004. This collection presents significant research and innovative developments and applications from both academic researchers and industry practitioners on topics ranging from Semantics to Tool and Development Environments. The aim of an ADL is to formally describe software and hardware architectures. Usually, an ADL describes components, their interfaces, their structures, their interactions (structure of data flow and control flow) and the mappings to hardware systems. A major goal of such description is to allow analysis with respect to several aspects like timing, safety, reliability. The papers in this state-of-the-art volume cover such topics of interest as components, connectors, composition; semantics and formalization; verification, simulation and test; tools and development environments; standardization; industrial projects. To encourage closer interaction between academic and industrial networking research communities, the workshop welcomed academic research papers as well as industrial contributions, and both are included here. Which makes this collection important not only for ADL experts and researchers, but also for all teachers and administrators interested in ADL.

Leveraging Applications of Formal Methods, Verification and Validation. Modeling Tiziana Margaria 2018-10-28 The

four-volume set LNCS 11244, 11245, 11246, and 11247

constitutes the refereed proceedings of the 8th International Symposium on Leveraging Applications of Formal Methods, Verification and Validation, ISoLA 2018, held in Limassol, Cyprus, in October/November 2018. The papers presented were carefully reviewed and selected for inclusion in the proceedings. Each volume focusses on an individual topic with topical section headings within the volume: Part I, Modeling: Towards a unified view of modeling and programming; X-by-construction, STRESS 2018. Part II, Verification: A broader view on verification: from

static to runtime and back; evaluating tools for software verification; statistical model checking; RERS 2018; doctoral symposium. Part III, Distributed Systems: rigorous engineering of collective adaptive systems; verification and validation of distributed systems; and cyber-physical systems engineering. Part IV, Industrial Practice: runtime verification from the theory to the industry practice; formal methods in industrial practice - bridging the gap; reliable smart contracts: state-of-the-art, applications, challenges and future directions; and industrial day.

Unifying Theories of Programming Pedro Ribeiro 2019-09-23 This volume contains papers presented at UTP 2019, the 7th International Symposium on Unifying Theories of Programming, held in Porto, Portugal, on the 8th of October 2019. This edition of the UTP symposium is in honor of Sir Tony Hoare, on the occasion of his 85th birthday. The papers contained in this volume were invited, and friendly refereed, original contributions sought from the UTP community. One of the papers is from the distinguished invited speaker Tony Hoare himself. Nine other additional papers compose this volume, covering several aspects of Unifying Theories of Programming.

The Essence of Software Engineering Volker Gruhn 2018-06-13 This open access book includes contributions by leading researchers and industry thought leaders on various topics related to the essence of software engineering and their application in industrial projects. It offers a broad overview of research findings dealing with current practical software engineering issues and also pointers to potential future developments. Celebrating the 20th anniversary of adesso AG, adesso gathered some of the pioneers of software engineering including Manfred Broy, Ivar Jacobson and Carlo Ghezzi at a special symposium, where they presented their thoughts about latest software engineering research and which are part of this book. This way it offers readers a concise overview of the essence of software engineering, providing valuable insights into the

latest methodological research findings and adesso's experience applying these results in real-world projects.

Design Automation of Cyber-Physical Systems Mohammad Abdullah Al Faruque 2019-05-09 This book presents the state-of-the-art and breakthrough innovations in design automation for cyber-physical systems. The authors discuss various aspects of cyber-physical systems design, including modeling, co-design, optimization, tools, formal methods, validation, verification, and case studies. Coverage includes a survey of the various existing cyber-physical systems functional design methodologies and related tools will provide the reader unique insights into the conceptual design of cyber-physical systems.

Software Architecture Bedir Tekinerdogan 2016-11-14 This book constitutes the proceedings of the 10th European Conference on Software Architecture, ECSA 2016, held in Copenhagen, Denmark, in November/December 2016. The 13 full papers presented together with 12 short papers were carefully reviewed and selected from 84 submissions. They are organized in topical sections on full research and experience papers, short papers for addressing emerging research, and education and training papers.

Leveraging Applications of Formal Methods, Verification and Validation. Verification Tiziana Margaria 2018-10-29 The four-volume set LNCS 11244, 11245, 11246, and 11247 constitutes the refereed proceedings of the 8th International Symposium on Leveraging Applications of Formal Methods, Verification and Validation, ISoLA 2018, held in Limassol, Cyprus, in October/November 2018. The papers presented were carefully reviewed and selected for inclusion in the proceedings. Each volume focusses on an individual topic with topical section headings within the volume: Part I, Modeling: Towards a unified view of modeling and programming; X-by-construction, STRESS 2018. Part II, Verification: A broader view on verification: from static to runtime and back; evaluating tools for software

verification; statistical model checking; RERS 2018; doctoral symposium. Part III, Distributed Systems: rigorous engineering of collective adaptive systems; verification and validation of distributed systems; and cyber-physical systems engineering. Part IV, Industrial Practice: runtime verification from the theory to the industry practice; formal methods in industrial practice - bridging the gap; reliable smart contracts: state-of-the-art, applications, challenges and future directions; and industrial day.

Handbook of Model-Based Systems Engineering Azad M. Madni 2023-07-25 This handbook brings together diverse domains and technical competences of Model Based Systems Engineering (MBSE) into a single, comprehensive publication. It is intended for researchers, practitioners, and students/educators who require a wide-ranging and authoritative reference on MBSE with a multidisciplinary, global perspective. It is also meant for those who want to develop a sound understanding of the practice of systems engineering and MBSE, and/or who wish to teach both introductory and advanced graduate courses in systems engineering. It is specifically focused on individuals who want to understand what MBSE is, the deficiencies in current practice that MBSE overcomes, where and how it has been successfully applied, its benefits and payoffs, and how it is being deployed in different industries and across multiple applications. MBSE engineering practitioners and educators with expertise in different domains have contributed chapters that address various uses of MBSE and related technologies such as simulation and digital twin in the systems lifecycle. The introductory chapter reviews the current state of practice, discusses the genesis of MBSE and makes the business case. Subsequent chapters present the role of ontologies and meta-models in capturing system interdependencies, reasoning about system behavior with design and operational constraints; the use of formal modeling in system (model) verification and validation; ontology-enabled integration of systems and system-of-systems; digital twin-enabled model-

based testing; system model design synthesis; model-based tradespace exploration; design for reuse; human-system integration; and role of simulation and Internet-of-Things (IoT) within MBSE.

Formal Techniques for Safety-Critical Systems Cyrille Artho
2015-04-15 This book constitutes the refereed proceedings of the Third International Workshop on Formal Techniques for Safety-Critical Systems, FTSCS 2014, held in Luxembourg, in November 2014. The 14 revised full papers presented together with two invited talks were carefully reviewed and selected from 40 submissions. The papers address various topics related to the application of formal and semi-formal methods to improve the quality of safety-critical computer systems.

Formal Aspects of Component Software Christiano Braga
2016-01-29 This book constitutes the revised selected papers from the 12th International Conference on Formal Aspects of Component Software, FACS 2015, held in Niterói, Brazil, in October 2015. The 15 full papers and 2 invited papers presented in this volume were carefully reviewed and selected from 33 submissions. They are organized in topical sections, namely quality of service to withstand faults, component-based software development through research on mathematical models for components, composition and adaptation; rigorous approaches to verification, deployment, testing, and certification.

Advanced Technologies, Embedded and Multimedia for Human-centric Computing Yueh-Min Huang
2013-11-13 The theme of HumanCom and EMC is focused on the various aspects of human-centric computing for advances in computer science and its applications, embedded and multimedia computing and provides an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of human-centric computing. And the theme of EMC (Advanced in Embedded and Multimedia Computing) is focused on the various aspects of embedded system, smart grid, cloud and multimedia

computing, and it provides an opportunity for academic, industry professionals to discuss the latest issues and progress in the area of embedded and multimedia computing. Therefore this book will include the various theories and practical applications in human-centric computing and embedded and multimedia computing.

Mobile, Ubiquitous, and Intelligent Computing James J. (Jong Hyuk) Park 2013-08-19 MUSIC 2013 will be the most comprehensive text focused on the various aspects of Mobile, Ubiquitous and Intelligent computing. MUSIC 2013 provides an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of intelligent technologies in mobile and ubiquitous computing environment. MUSIC 2013 is the next edition of the 3rd International Conference on Mobile, Ubiquitous, and Intelligent Computing (MUSIC-12, Vancouver, Canada, 2012) which was the next event in a series of highly successful International Workshop on Multimedia, Communication and Convergence technologies MCC-11 (Crete, Greece, June 2011), MCC-10 (Cebu, Philippines, August 2010).

Languages, Design Methods, and Tools for Electronic System Design Frank Oppenheimer 2015-12-11 This book brings together a selection of the best papers from the seventeenth edition of the Forum on specification and Design Languages Conference (FDL), which took place on October 14-16, 2014, in Munich, Germany. FDL is a well-established international forum devoted to dissemination of research results, practical experiences and new ideas in the application of specification, design and verification languages to the design, modeling and verification of integrated circuits, complex hardware/software embedded systems, and mixed-technology systems.

Principles of Modeling Marten Lohstroh 2018-07-19 This Festschrift is published in honor of Edward A. Lee, Robert S. Pepper Distinguished Professor Emeritus and Professor in the

Graduate School in the Department of Electrical Engineering and Computer Sciences at the University of California, Berkeley, USA, on the occasion of his 60th birthday. The title of this Festschrift is "Principles of Modeling" because Edward A. Lee has long been devoted to research that centers on the role of models in science and engineering. He has been examining the use and limitations of models, their formal properties, their role in cognition and interplay with creativity, and their ability to represent reality and physics. The Festschrift contains 29 papers that feature the broad range of Edward A. Lee's research topics; such as embedded systems; real-time computing; computer architecture; modeling and simulation, and systems design.

Model-Based Engineering with AADL Peter H. Feiler

2012-09-25 Conventional build-then-test practices are making today's embedded, software-reliant systems unaffordable to build. In response, more than thirty leading industrial organizations have joined SAE (formerly, the Society of Automotive Engineers) to define the SAE Architecture Analysis & Design Language (AADL) AS-5506 Standard, a rigorous and extensible foundation for model-based engineering analysis practices that encompass software system design, integration, and assurance. Using AADL, you can conduct lightweight and rigorous analyses of critical real-time factors such as performance, dependability, security, and data integrity. You can integrate additional established and custom analysis/specification techniques into your engineering environment, developing a fully unified architecture model that makes it easier to build reliable systems that meet customer expectations. Model-Based Engineering with AADL is the first guide to using this new international standard to optimize your development processes. Coauthored by Peter H. Feiler, the standard's author and technical lead, this introductory reference and tutorial is ideal for self-directed learning or classroom instruction, and is an excellent reference for practitioners, including architects, developers, integrators, validators,

certifiers, first-level technical leaders, and project managers. Packed with real-world examples, it introduces all aspects of the AADL notation as part of an architecture-centric, model-based engineering approach to discovering embedded software systems problems earlier, when they cost less to solve. Throughout, the authors compare AADL to other modeling notations and approaches, while presenting the language via a complete case study: the development and analysis of a realistic example system through repeated refinement and analysis. Part One introduces both the AADL language and core Model-Based Engineering (MBE) practices, explaining basic software systems modeling and analysis in the context of an example system, and offering practical guidelines for effectively applying AADL. Part Two describes the characteristics of each AADL element, including their representations, applicability, and constraints. The Appendix includes comprehensive listings of AADL language elements, properties incorporated in the AADL standard, and a description of the book's example system.

Model-Based Engineering with AADL Peter Feiler 2012-09-25

Conventional build-then-test practices are making today's embedded, software-reliant systems unaffordable to build. In response, more than thirty leading industrial organizations have joined SAE (formerly, the Society of Automotive Engineers) to define the SAE Architecture Analysis & Design Language (AADL) AS-5506 Standard, a rigorous and extensible foundation for model-based engineering analysis practices that encompass software system design, integration, and assurance. Using AADL, you can conduct lightweight and rigorous analyses of critical real-time factors such as performance, dependability, security, and data integrity. You can integrate additional established and custom analysis/specification techniques into your engineering environment, developing a fully unified architecture model that makes it easier to build reliable systems that meet customer expectations. Model-Based Engineering with AADL is the first

guide to using this new international standard to optimize your development processes. Coauthored by Peter H. Feiler, the standard's author and technical lead, this introductory reference and tutorial is ideal for self-directed learning or classroom instruction, and is an excellent reference for practitioners, including architects, developers, integrators, validators, certifiers, first-level technical leaders, and project managers. Packed with real-world examples, it introduces all aspects of the AADL notation as part of an architecture-centric, model-based engineering approach to discovering embedded software systems problems earlier, when they cost less to solve. Throughout, the authors compare AADL to other modeling notations and approaches, while presenting the language via a complete case study: the development and analysis of a realistic example system through repeated refinement and analysis. Part One introduces both the AADL language and core Model-Based Engineering (MBE) practices, explaining basic software systems modeling and analysis in the context of an example system, and offering practical guidelines for effectively applying AADL. Part Two describes the characteristics of each AADL element, including their representations, applicability, and constraints. The Appendix includes comprehensive listings of AADL language elements, properties incorporated in the AADL standard, and a description of the book's example system.

**Model Based
Engineering With
AADL An**

**Introduction To
The SAE
Architecture**

Analysis Design Language :

Architecture Analysis Design Language 1. Understanding the eBook

In today digital age, eBooks have become a staple for both leisure and learning. The convenience of accessing Model Based Engineering With AADL An Introduction To The SAE Architecture Analysis Design Language and various genres has transformed the way we consume literature. Whether you are a voracious reader or a knowledge seeker, read Model Based Engineering With AADL An Introduction To The SAE Architecture Analysis Design Language or finding the best eBook that aligns with your interests and needs is crucial. This article delves into the art of finding the perfect eBook and explores the platforms and strategies to ensure an enriching reading experience.

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