Software Requirements for Safety-Related Systems

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Politecnico di Torino

Software Engineering

16/04/2008

Software In Safety Related Systems

JR Anderson

Software In Safety Related Systems:

Testing Safety-Related Software Stewart Gardiner,2012-12-06 As software is very complex we can only test a limited range of the possible states of the software in a reasonable time frame In 1972 Dijkstra 1 claimed that program testing can be used to show the pres ence of bugs but never their absence to persuade us that a testing approach alone is not acceptable This frequently quoted statement represented our knowledge about software testing at that time and after over 25 years intensive practice experiment and research although software testing has been developed into a validation and ver ification technique indispensable to software engineering discipline Dijkstra s state ment is still valid To gain confidence in the safety of software based systems we must therefore assess both the product and the process of its development Testing is one of the main ways of assessing the product but it must be seen together with process assessment in the context of an overall safety case This book provides guidance on how to make best use of the limited resources available for testing and to maximise the contribution that testing of the product makes to the safety case 1 1 Context The safety assurance of software based systems is a complex task as most fail ures stem from design errors committed by humans To provide safety assur on the integrity of the system and put ance evidence needs to be gathered forward as an argued case the safety case that the system is adequately safe *Software in Safety-related Systems* Brian A. Wichmann,1992-07-14 An authoritative report on the design of safety critical computer systems Presents issues involved in the development of high integrity software for life crucial applications plus a review of the latest tools and techniques Supplemented by recent U K Ministry of Defense Standard 00 55 and other guidance material *An Introduction to System Safety Engineering* Nancy G. Leveson,2023-11-14 A comprehensive up to date introduction to the foundations of classical safety engineering with an emphasis on preparing for future challenges Systems today are orders of magnitude more complex than in the past and their complexity is increasing exponentially Preventing accidents and losses in such systems requires a holistic perspective that can accommodate unprecedented types of technology and design This textbook teaches the foundations of classical safety engineering while incorporating the principles of systems thinking and systems theory Beginning with the framing and lessons of her classic text Safeware Nancy Leveson builds on established knowledge and brings the field up to date challenging old approaches and introducing new ones This essential book provides the core information required to build safety critical systems today and in the future including coverage of the historical and legal frameworks in which the field operates as well as discussions of risk ethics and policy implications Presents cutting edge concepts anticipating the safety challenges of the future alongside thorough treatment of historical practices and ideas Provides a comprehensive introduction to the foundations of safety engineering Covers accident analysis hazard analysis design for safety human factors management and operations Incorporates extensive examples of real world accidents and applications Ideal for students new to safety engineering as well as professionals looking to keep pace with a rapidly changing field **New Trends in Software Methodologies, Tools**

and Techniques A. Selamat,H. Fujita,H. Haron,2014-08-29 Software is the essential enabling means for science and the new economy It helps us to create a more reliable flexible and robust society But software often falls short of our expectations Current methodologies tools and techniques remain expensive and are not yet sufficiently reliable while many promising approaches have proved to be no more than case by case oriented methods This book contains extensively reviewed papers from the thirteenth International Conference on New Trends in software Methodology Tools and Techniques SoMeT_14 held in Langkawi Malaysia in September 2014 The conference provides an opportunity for scholars from the international research community to discuss and share research experiences of new software methodologies and techniques and the contributions presented here address issues ranging from research practices and techniques and methodologies to proposing and reporting solutions for global world business The emphasis has been on human centric software methodologies end user development techniques and emotional reasoning for an optimally harmonized performance between the design tool and the user Topics covered include the handling of cognitive issues in software development to adapt it to the user s mental state and intelligent software design in software utilizing new aspects on conceptual ontology and semantics reflected on knowledge base system models This book provides an opportunity for the software science community to show where we are today and where the future may take us   *Using Event-B for Critical Device Software Systems* Neeraj Kumar Singh,2013-06-19 Defining a new development life cycle methodology together with a set of associated techniques and tools to develop highly critical systems using formal techniques this book adopts a rigorous safety assessment approach explored via several layers from requirements analysis to automatic source code generation This is assessed and evaluated via a standard case study the cardiac pacemaker Additionally a formalisation of an Electrocardiogram ECG is used to identify anomalies in order to improve existing medical protocols This allows the key issue that formal methods are not currently integrated into established critical systems development processes to be discussed in a highly effective and informative way Using Event B for Critical Device Software Systems serves as a valuable resource for researchers and students of formal methods The assessment of critical systems development is applicable to all industries but engineers and physicians from the health domain will find the cardiac pacemaker case study of particular value   NRC Regulatory Guides U.S. Nuclear Regulatory Commission,1973 A compilation of currently available electronic versions of NRC regulatory guides   **Lees' Loss Prevention in the Process Industries** Frank Lees,2012-11-05 Safety in the process industries is critical for those who work with chemicals and hazardous substances or processes The field of loss prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world and Lees is a detailed reference to defending against hazards Recognized as the standard work for chemical and process engineering safety professionals it provides the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to

replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing three volume reference instead The process safety encyclopedia trusted worldwide for over 30 years Now available in print and online to aid searchability and portability Over 3 600 print pages cover the full scope of process safety and loss prevention compiling theory practice standards legislation case studies and lessons learned in one resource as opposed to multiple sources   Safety of Computer Control Systems 1983 (Safecomp ' 83) J. A. Baylis,2014-05-17 Safety of Computer Control Systems 1983 Achieving Safe Real Time Computer Systems contains the proceedings of the Third IFAC IFIP Workshop held at Cambridge UK on September 20 22 1983 Composed of 36 chapters separated into the eight sessions of the workshop this book begins with a discussion of the safety and reliability of computer control systems Subsequent chapters explore the systems design for safety and reliability fault tolerance recovery and use of redundancy and aspects of fault tolerance for system reliability Other chapters detail specification techniques system development and quality assurance verifications and validations case studies as well as scheduling networks and communications   Safety and Reliability of Software Based Systems Roger Shaw,2012-12-06 Safety and Reliability of Software Based Systems contains papers presented at the twelfth annual workshop organised by the Centre for Software Reliability Contributions come from different industries in many countries and provide discussion and cross fertilisation of ideas relevant to systems whose safety and or reliability are of paramount concern This book discusses safety cases and their varying roles in different industries using measurement to improve reliability and safety of software based systems latest developments in managing developing and assessing software intensive systems where reliability and or safety are important considerations and practical experiences of others in industry   **Cyber Resilience System Engineering Empowered by Endogenous Security and Safety** Jiangxing Wu,2024-10-29 This book reveals the essence of endogenous or internal contradictions in cyberspace security issues systematically expounds the principle of cyberspace endogenous security and safety introduces the author invented dynamic heterogeneous redundant DHR architecture with endogenous security and safety features and theoretically answers why DHR endogenous security and safety architecture can enable network resilience engineering the enabling role of DHR architecture solves the problem that network resilience cannot cope with unknown damage lacks structural gain and cannot quantify design measures This book analyses the systematic security gains that DHR architecture enabling network resilience engineering can bring in the four purpose dimensions of prevention defense recovery and adaptation gives an application example of DHR endogenous security and safety architecture enabling network resilience engineering introduces the research and exploration of endogenous security and safety theory in wireless communication security artificial intelligence security and other derivative application fields and uses rich application examples It shows that the endogenous security and safety architecture enabling network resilience engineering not only is very necessary but also has universal application significance This book is suitable for postgraduate teaching materials or reference books of related disciplines

such as cybersecurity network resilience engineering confidential computing trusted computing information physical systems industrial control etc   **Systems, Software and Services Process Improvement** Fergal McCaffery,Rory V. O'Connor,Richard Messnarz,2013-06-12 This volume constitutes the refereed proceedings of the 20th EuroSPI conference held in Dundalk Ireland in June 2013 The 31 revised papers presented in this volume were carefully reviewed and selected They are organized in topical sections on SPI Safety and Regulation Issues SPI Lifecycle and Models SPI Quality and Testing Issues SPI Networks and Teams SPI and Reference Models SPI Implementation Agile organisations and an agile management process group Managing Diversity and Innovation SPI and Measurement Risk Management and Functional Safety Standards   Model-Based Engineering of Embedded Real-Time Systems Holger Giese,Gabor Karsai,Edward A. Lee,Bernhard Rumpe,Bernhard Schätz,2010-10-06 Thetopicof Model BasedEngineeringofReal TimeEmbeddedSystems brings together a challenging problem domain real time embedded systems and a lution domain model based engineering It is also at the forefrontof integrated software and systems engineering as software in this problem domain is an essential tool for system implementation and integration Today real time bedded software plays a crucial role in most advanced technical systems such as airplanes mobile phones and cars and has become the main driver and cilitator for innovation Development evolution veri cation con guration and maintenance of embedded and distributed software nowadays are often serious challenges as drastic increases in complexity can be observed in practice Model based engineering in general and model based software development in particular advocates the notion of using models throughout the development and life cycle of an engineered system Model based software engineering re forces this notion by promoting models not only as the tool of abstraction but also as the tool for veri cation implementation testing and maintenance The application of such model based engineering techniques to embedded real time systems appears to be a good candidate to tackle some of the problems arising in the problem domain   *Contributions to Ubiquitous Computing* Bernd Krämer,2007-01-08 This book takes a holistic view on mobile and distributed computing systems It presents innovative solutions at all system layers These range from hardware over vertical and horizontal infrastructure services and novel middleware techniques to various types of application software Some chapters address core properties of ubiquitous applications including mobility self healing and self organization of both technical and social technical systems   **Software Engineer's Reference Book** John A McDermid,2013-10-22 Software Engineer s Reference Book provides the fundamental principles and general approaches contemporary information and applications for developing the software of computer systems The book is comprised of three main parts an epilogue and a comprehensive index The first part covers the theory of computer science and relevant mathematics Topics under this section include logic set theory Turing machines theory of computation and computational complexity Part II is a discussion of software development methods techniques and technology primarily based around a conventional view of the software life cycle Topics discussed include methods such as CORE SSADM and SREM and formal methods including VDM and Z

Attention is also given to other technical activities in the life cycle including testing and prototyping The final part describes the techniques and standards which are relevant in producing particular classes of application The text will be of great use to software engineers software project managers and students of computer science **Reliable Software Technologies - Ada-Europe '97** Keith Hardy,1997-05-21 This book constitutes the refereed proceedings of the 1997 Ada Europe International Conference on Reliable Software Technologies held in London UK in June 1997 The 25 revised full papers presented were carefully selected for inclusion by the program committee All current issues explored in the Ada community are addressed beyond the Ada language aspects software engineering technologies for reliable and for reactive systems are discussed in a more general context *Hydroinformatics Tools for Planning, Design, Operation and Rehabilitation of Sewer Systems* J. Marsalek,Cedo Maksimovic,Evzen Zeman,Roland Price,2013-04-17 Hydroinformatics systems are systems that combine computational hydraulic modelling with information systems including knowledge based systems They are gaining rapid acceptance in the areas of environmental planning design and management The present book focuses exclusively on sewage systems starting with their planning and then going on to discuss their design operation and rehabilitation The very experienced authors discuss business and information needs in the management of urban drainage tools for collecting and archiving such data and their use in modelling catchment hydrology sewer systems hydraulics wastewater quality wastewater treatment plant operation and receiving waters The control and operation of sewer systems in real time is described followed by a discussion of their maintenance and rehabilitation Intelligent decision support systems for managing the urban drainage business process are presented Audience Researchers into sewer design municipal engineers planners and managers interested in an innovative approach to all aspects of the planning design and operation of sewer systems

Measurement for Software Control and Assurance B.A. Kitchenham,B. Littlewood,1989-02-28 **The Role of ISO 26262** Juan Pimentel,2019-03-07 Safety has been ranked as the number one concern for the acceptance and adoption of automated vehicles since safety has driven some of the most complex requirements in the development of self driving vehicles Recent fatal accidents involving self driving vehicles have uncovered issues in the way some automated vehicle companies approach the design testing verification and validation of their products Traditionally automotive safety follows functional safety concepts as detailed in the standard ISO 26262 However automated driving safety goes beyond this standard and includes other safety concepts such as safety of the intended functionality SOTIF and multi agent safety The Role of ISO 26262 addresses the concept of safety for self driving vehicles through the inclusion of 10 recent and highly relevent SAE technical papers Topics that these papers feature include model based systems engineering MBSE and the use of SysML language in a management based approach to safety As the fourth title in a series on automated vehicle safety this contains introductory content by the Editor with 10 SAE technical papers specifically chosen to illuminate the specific safety topic of that book Safe Comp 95 Gerhard Rabe,2013-04-18 Safety related computer systems are those which may lead to

loss of life injury or plant and environmental damage Such systems therefore have to be developed and implemented so that they meet strict require and security because their applications cover ments on safety reliability nearly all areas of daily life and range from controlling and monitoring industrial processes through robotics and power generation to transport systems Highly reliable electronic systems for safety related applications represent an area in which industry has been involved for many years and which is now gaining increasing importance in academia Their relevance also results from an increased perception of safety by society Therefore not only are technicians involved in this area but psycho logical and sociological aspects also play a major role Dealing with safety related systems we have to consider the whole lifecycle of these systems starting from specification up to implementation assessment and operation All those issues mentioned above are covered in this book which represents the proceedings of the 14th International Conference on Computer Safety Reliability and Security SAFECOMP 95 held in Belgirate Italy 11 13 October 1995 The conference continues the series of SAFECOMP conferences which was originated by the European Workshop on Industrial Computer Systems Technical Committee 7 on Safety Security and Reliability EWICS TC7 and reflects the state of the art experience and new trends in the area of safety related computer systems   *Dependability of Critical Computer Systems* F.J. Redmill,1989-11-30 M CARPENTIER Director General DG XIII Telecommunications Information Industries and Innovation of the Commission of the European Communities It is with great pleasure that I introduce and recommend this collection of guidelines produced by EWICS TC7 This Technical Committee has consistently attracted technical experts of high quality from all over Europe and the standard of the Committee s work has reflected this The Committee has been sponsored by the Commission of the European Communities since 1978 During this period there has been the opportunity to observe the enthusiasm and dedication in the activities of the group the expertise and effort invested in its work the discipline in meeting objectives and the quality of the resulting guidelines It is no surprise that these guidelines have influenced the work of international standardisation bodies Now the first six of EWICS TCTs guidelines are being made available as a book I am convinced that all computer system developers who use them will greatly enhance their chances of achieving quality systems v Acknowledgements In the preparation of this book the editoLisgrateful to P Bishop G Covington II C Goring and W Quirk for their help in editing the guidelines In addition he would like to thank S Bologna W Ehrenberger M Ould J Rata L Sintonen and J Zalewski for reviewing the chapters and providing additional material

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