

Architecting Software Intensive Systems A Practitioners Guide

Reliability of Software Intensive Systems Software-Intensive Systems and New Computing
Paradigms Managing the Development of Software-Intensive Systems Designing Software-Intensive
Systems: Methods and Principles Summary of a Workshop on Software-Intensive Systems and
Uncertainty at Scale Project Management of Large Software-Intensive Systems Estimating Software-
Intensive Systems Software Quality Assurance Reliability of Software Intensive Systems Summary of a
Workshop on Software-Intensive Systems and Uncertainty at Scale Complex, Intelligent, and Software
Intensive Systems Project Management of Large Software-Intensive Systems Complex, Intelligent, and
Software Intensive Systems Complex, Intelligent and Software Intensive Systems Environment
Modeling-Based Requirements Engineering for Software Intensive Systems DOD Information
Technology Software and Systems Process Improvement Programs Vary in Use of Best
Practices Complex, Intelligent, and Software Intensive Systems Architecting Software Intensive
Systems Reliability, Quality and Safety of Software-Intensive Systems Managing and Leading Software
Projects Phuong Y. Tran Martin Wirsing James McDonald Tiako, Pierre F. National Research Council
Marvin Gechman Richard D. Stutzke Ivan Mistrik Michael A. Friedman National Research Council
Leonard Barolli Marvin Gechman Leonard Barolli Leonard Barolli Zhi Jin Carl Higginbotham Leonard
Barolli Anthony J. Lattanze Dimitris Gritzalis Richard E. Fairley
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reliability of software intensive systems

this volume presents results of three workshops of the interlink working group setup by the eu to look
at software intensive systems and novel computing paradigms it covers ensemble engineering theory
and formal methods and novel computing paradigms

managing the development of software intensive systems provides both an introduction to project
management for beginner software and hardware developers as well as unique advanced materials for
experienced users this beneficial resource presents realistic case studies for planning and managing
verification and validation for large software projects complex software and hardware systems as well

as inspection results and testing metrics to monitor project status industrial practitioners and students will learn ways to improve how they manage and develop their project management applications and techniques to establish large software applications and systems

this book addresses the complex issues associated with software engineering environment capabilities for designing real time embedded software systems provided by publisher

the growing scale and complexity of software intensive systems are introducing fundamental new challenges of uncertainty and scale that are particularly demanding for defense systems to assist in meeting these challenges the department of defense asked the nrc to assess the nature of u s national investment in software research as part of this study a workshop was held to examine uncertainty at scale in current and future software intensive systems this report presents a summary of the workshop discussions that centered on process architecture and the grand scale dod software challenges for future systems agility at scale quality and assurance with scale and uncertainty and enterprise scale and beyond the report also offers a summary of key themes emerging from the workshop architectural challenges in large scale systems the need for software engineering capability and open questions and research opportunities

the book describes how to manage and successfully deliver large complex and expensive systems that can be composed of millions of line of software code being developed by numerous groups throughout the globe that interface with many hardware items being developed by geographically dispersed companies where the system also includes people policies constraints regulations and a myriad of other factors it focuses on how to seamlessly integrate systems satisfy the customer s requirements and deliver within the budget and on time the guide is essentially a shopping list of all the activities that could be conducted with tailoring guidelines to meet the needs of each project

many software projects fail because their leaders don't know how to estimate schedule or measure them accurately fortunately proven tools and techniques exist for every facet of software estimation estimating software intensive systems brings them together in a real world guidebook that will help software managers engineers and customers immediately improve their estimates and drive continuing improvements over time dick stutzke presents here a disciplined and repeatable process that can produce accurate and complete estimates for any project product or process no matter how new or unusual stutzke doesn't just describe formal techniques he offers simple easy to use templates spreadsheets and tools you can start using today to identify and estimate product size performance and quality as well as project cost schedule and risk reserves stutzke shows how to quickly get your arms around users problems and requirements the structure of a solution and the process needed to deliver it you'll learn how to choose the most appropriate estimating techniques and tools collect accurate data track progress and update estimates and recalibrate estimating models to improve estimation accuracy stutzke's techniques apply whether you're creating custom in house business software purchasing or customizing off the shelf technology or constructing complex one of a kind military industrial or commercial systems these techniques apply to small and large projects and to all project life cycles from agile to plan driven this book will help you plan estimate budget schedule purchase design build test deploy operate and maintain software intensive systems it explains how to size software identify all cost components calculate the associated costs and set a competitive price a separate section covers topics of interest for large projects designing an appropriate work breakdown structure collecting data from cost accounting systems and using earned value measurement you'll find updates and even more information on this book's companion web site sw-estimation.com

software quality assurance in large scale and complex software intensive systems presents novel and high quality research related approaches that relate the quality of software architecture to system

requirements system architecture and enterprise architecture or software testing modern software has become complex and adaptable due to the emergence of globalization and new software technologies devices and networks these changes challenge both traditional software quality assurance techniques and software engineers to ensure software quality when building today and tomorrow s adaptive context sensitive and highly diverse applications this edited volume presents state of the art techniques methodologies tools best practices and guidelines for software quality assurance and offers guidance for future software engineering research and practice each contributed chapter considers the practical application of the topic through case studies experiments empirical validation or systematic comparisons with other approaches already in practice topics of interest include but are not limited to quality attributes of system software architectures aligning enterprise system and software architecture from the point of view of total quality design decisions and their influence on the quality of system software architecture methods and processes for evaluating architecture quality quality assessment of legacy systems and third party applications lessons learned and empirical validation of theories and frameworks on architectural quality empirical validation and testing for assessing architecture quality focused on quality assurance at all levels of software design and development covers domain specific software quality assurance issues e g for cloud mobile security context sensitive mash up and autonomic systems explains likely trade offs from design decisions in the context of complex software system engineering and quality assurance includes practical case studies of software quality assurance for complex adaptive and context critical systems

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this book provides a platform of scientific interaction between the three challenging and closely linked areas of ict enabled application research and development software intensive systems complex systems and intelligent systems software intensive systems strongly interact with other systems sensors actuators devices other software systems and users more and more domains are using software intensive systems e g automotive and telecommunication systems embedded systems in general industrial automation systems and business applications moreover web services offer a new platform for enabling software intensive systems complex systems research is focused on the overall understanding of systems rather than their components complex systems are characterized by the changing environments in which they interact they evolve and adapt through internal and external dynamic interactions the development of intelligent systems and agents which are increasingly characterized by their use of ontologies and their logical foundations offer impulses for both software intensive systems and complex systems recent research in the field of intelligent systems robotics neuroscience artificial intelligence and cognitive sciences are vital for the future development and innovation of software intensive and complex systems

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the globe that interface with many hardware items being developed by geographically dispersed companies where the system also includes people policies constraints regulations and a myriad of other factors it focuses on how to seamlessly integrate systems satisfy the customer s requirements and deliver within the budget and on time the guide is essentially a shopping list of all the activities that could be conducted with tailoring guidelines to meet the needs of each project

this book presents scientific interactions between the three interwoven and challenging areas of research and development of future ict enabled applications software complex systems and intelligent systems software intensive systems heavily interact with other systems sensors actuators and devices as well as other software systems and users more and more domains involve software intensive systems e g automotive telecommunication systems embedded systems in general industrial automation systems and business applications moreover web services offer a new platform for enabling software intensive systems complex systems research focuses on understanding overall systems rather than their components such systems are characterized by the changing environments in which they act and they evolve and adapt through internal and external dynamic interactions the development of intelligent systems and agents features the use of ontologies and their logical foundations provide a fruitful impulse for both software intensive systems and complex systems research in the field of intelligent systems robotics neuroscience artificial intelligence and cognitive sciences is a vital factor in the future development and innovation of software intensive and complex systems

this book explores three interwoven and challenging areas of research and development for future ict enabled applications software intensive systems complex systems and intelligent systems software intensive systems are systems that extensively interact with other systems sensors actuators devices and users more and more domains are now employing software intensive systems e g the automotive sector telecommunication systems embedded systems in general industrial automation systems and

business applications moreover the outcome of web services offers a new platform for enabling software intensive systems complex systems research is focused on the overall understanding of systems rather than their components complex systems are very much characterized by the changing environments in which they operate through their multiple internal and external interactions they evolve and adapt through internal and external dynamic interactions the development of intelligent systems and agents which is increasingly characterized by the use of ontologies can be beneficial for software intensive systems and complex systems alike accordingly recent research in the areas of intelligent systems robotics neuroscience artificial intelligence and the cognitive sciences is essential to the future development of software intensive and complex systems

environment modeling based requirements engineering for software intensive systems provides a new and promising approach for engineering the requirements of software intensive systems presenting a systematic promising approach to identifying clarifying modeling deriving and validating the requirements of software intensive systems from well modeled environment simulations in addition the book presents a new view of software capability i e the effect based software capability in terms of environment modeling provides novel and systematic methodologies for engineering the requirements of software intensive systems describes ontologies and easily understandable notations for modeling software intensive systems analyzes the functional and non functional requirements based on the properties of the software surroundings provides an essential practical guide and formalization tools for the task of identifying the requirements of software intensive systems gives system analysts and requirements engineers insight into how to recognize and structure the problems of developing software intensive systems

the dod relies heavily on software intensive systems to support mil operations and associated bus functions such as logistics personnel and financial mgmt one important determinant of the quality of

these systems is the quality of the processes used to develop acquire and engineer them successful public and private org s have adopted and implemented software systems process improvement spi programs this report compares and contrast dod it practices with leading practices it reviews dod components spi mgmt activities to ensure that dod is taking the necessary steps to continuously strengthen its software and systems development acquisition and engineering processes

this book gathers the proceedings of the 11th international conference on complex intelligent and software intensive systems cisis 2017 held on june 28 june 30 2017 in torino italy software intensive systems are characterized by their intensive interaction with other systems sensors actuators devices and users further they are now being used in more and more domains e g the automotive sector telecommunication systems embedded systems in general industrial automation systems and business applications moreover the outcome of web services delivers a new platform for enabling software intensive systems complex systems research is focused on the understanding of a system as a whole rather than its components complex systems are very much shaped by the changing environments in which they operate and by their multiple internal and external interactions they evolve and adapt through internal and external dynamic interactions the development of intelligent systems and agents which invariably involves the use of ontologies and their logical foundations offers a fruitful impulse for both software intensive systems and complex systems recent research in the fields of intelligent systems robotics neuroscience artificial intelligence and cognitive sciences is essential to the future development of and innovations in software intensive and complex systems the aim of the volume complex intelligent and software intensive systems is to provide a platform of scientific interaction between the three interwoven and challenging areas of research and development of future information and communications technology ict enabled applications software intensive systems complex systems and intelligent systems

architectural design is a crucial first step in developing complex software intensive systems early design decisions establish the structures necessary for achieving broad systemic properties however today s organizations lack synergy between software their development processes and technological methodologies providing a thorough treatment of

it is indeed widely acceptable today that nowhere is it more important to focus on the improvement of software quality than in the case of systems with requirements in the areas of safety and reliability especially for distributed real time and embedded systems thus much research work is under progress in these fields since software process improvement impinges directly on achieved levels of quality and many application experiments aim to show quantitative results demonstrating the efficacy of particular approaches requirements for safety and reliability like other so called non functional requirements for computer based systems are often stated in imprecise and ambiguous terms or not at all specifications focus on functional and technical aspects with issues like safety covered only implicitly or not addressed directly because they are felt to be obvious unfortunately what is obvious to an end user or system user is progressively less so to others to the extent that a software developer may not even be aware that safety is an issue therefore there is a growing evidence for encouraging greater understanding of safety and reliability requirements issues right across the spectrum from end user to software developer not just in traditional safety critical areas e g nuclear aerospace but also acknowledging the need for such things as heart pacemakers and other medical and robotic systems to be highly dependable

the book is organized around basic principles of software project management planning and estimating measuring and controlling leading and communicating and managing risk introduces software development methods from traditional hacking requirements to code and waterfall to iterative incremental build evolutionary agile and spiral illustrates and emphasizes tailoring the development

process to each project with a foundation in the fundamentals that are true for all development methods topics such as the wbs estimation schedule networks organizing the project team and performance reporting are integrated rather than being relegating to appendices each chapter in the book includes an appendix that covers the relevant topics from cmmi dev v1 2 ieee iso standards 12207 ieee standard 1058 and the pmi body of knowledge pmi is a registered mark of project management institute inc

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