
Model Driven Dependability Assessment Of Software Systems By Simona Bernardi José Merseguer Dorina Corina Petriu

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abstract reliability is an important concern for
software dependability quantifying
dependability in terms of reliability can be
carried out by measuring the continuous
delivery of a correct service or equivalently
the mean time to failure the novel contribution
of this paper is to provide a means to support
'1 assessment software systems and
dependability today*

**June 1st, 2020 - the software industry is
by most measures a remarkable success
but it would be unwise to be placent and
assume that software is already
dependable enough or that its
dependability will improve without any
special efforts'**

**'model based dependability analysis of
physical systems'**

**May 16th, 2020 - model based
dependability analysis of physical
systems with modelica to evaluate the
dependability of systems in which nodes**

represent variables and arcs represent direct probabilistic model driven physical systems operation european project 27 that'

'reliability support for the model driven architecture

May 14th, 2020 - sis and design of dependability issues and from design to implementation 1 provides a useful transformation technique to automate dependability analysis of systems designed using uml nevertheless to properly contemplate dependability in all stages of the software engineering process we believe that one of the main concern is to provide a'

'model driven assessment of system dependability software'

April 27th, 2020 - model driven assessment of system dependability model driven assessment of system dependability mustafiz sadaf sun ximeng kienzle jörg vangheluwe hans 2008 03 05 00 00 00 designers of plex real time systems need to address dependability requirements early on in the development process this paper presents a model based approach that allows developers to analyse the dependability of core

*August 6th, 2018 - 2001 modeling and analysis of redundancy management in distributed object oriented systems by using uml statecharts 2003 reliability support for the model driven architecture 2000 software reliability and dependability a roadmap in 2001" **model driven dependability assessment of software systems***

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'models 18 proceedings of the 21st acm ieee international'

April 30th, 2020 - in this phd program we aim at introducing automation in the model driven

assessment of dependability and we propose to leverage bidirectional model transformations to i generate dependability analysis models from software models and ii automatically propagate changes driven by dependability requirements satisfaction from analysis models back to software models

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'model based dependability analysis of

physical systems

May 23rd, 2020 - modelica is an innovative

equation based and acausal language that

allows modeling plex physical systems which

are made of mechanical electrical and

electrotechnical ponents and evaluates their

design through simulation techniques

unfortunately the increasing plexity and

accuracy of such physical systems require

new more powerful and flexible tools and

techniques for'

'radiance 2017 international workshop on

recent advances

May 19th, 2020 - automated verification and

validation of critical systems model driven

approaches for the assessment of

dependable and secure systems dependable

and secure cloud systems and virtualized

environments assessment of micro services

and related applications threats and

methodologies for the internet of things

experimental assessment of

'model driven dependability assessment

of software systems

May 23rd, 2020 - model driven

dependability assessment of software

systems summary over the last two

decades a major challenge for researchers working on modeling and evaluation of computer based systems has been the assessment of system non functional properties nfp such as performance scalability dependability and security'

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'model driven dependability assessment of software systems

May 11th, 2020 - in this book the authors present cutting edge model driven techniques for modeling and analysis of software dependability most of them are based on the use of uml as software specification language from the software system specification point of view such techniques exploit the standard extension mechanisms of uml i e uml profiling

'instrumenting autosar for dependability assessment a

May 29th, 2020 - quality assurance of these systems is correspondingly high testing fault injection fi and other techniques are employed for the experimental dependability assessment of these increasingly software intensive systems having flexible and automated support for instrumentation is key in making these assessment techniques efficient'

'dependability modeling and analysis of software systems

May 27th, 2020 - the goal is to survey dependability modeling and analysis of software and systems specified with uml with focus on reliability availability maintainability and safety rams from the literature published in the last decade 33 approaches presented in 43 papers were identified'

'the 2nd international workshop on recent advances in the

May 5th, 2020 - model driven approaches for the assessment of dependable and secure systems experimental assessment of dependability and security dependable and secure services"architectural model driven dependability analysis of

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software specification'**

**'dependability assessment and software
life cycle**

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sts italy innovation amp petitiveness ieee
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**'dependability modeling and assessment
in uml based**

**May 18th, 2020 - assessment of software
nonfunctional properties nfp is an
important problem in software
development in the context of model
driven development an emerging
approach for the analysis of different nfps
consists of the following steps a to extend
the software models with annotations
describing the nfp of interest b to**

transform automatically the annotated software model to the formalism" qos based model driven assessment of adaptive reactive systems

May 24th, 2020 - designing and maintaining such systems is a challenging task a key issue to be faced concerns the assessment of their effectiveness in terms of the ability to meet their required quality of service this paper introduces a model driven approach to support this assessment with a focus on performance and dependability attributes'

'a model driven approach for software systems reliability

May 15th, 2020 - the reliability assurance of software systems from design to deployment level through transformation techniques and model driven approach is described'

'book model driven dependability assessment of software

March 24th, 2020 - book model driven dependability assessment of software systems
bernardi simona merseguer josé petriu dorina c 2013 xvi 187 p
prehensive overview of standards based dependability modeling and analysis
presentation based on the standard extension mechanisms of uml
detailed case studies to illustrate single process steps
co authored by contributors to related omg standards
over the last

"a model driven integrated approach for cyber physical

May 21st, 2020 - a model driven integrated approach for cyber physical systems hardware and software dependability testing
keywords test driven architecture
dependability testing cyber physical system
supervisors dr mohamed kaâniche laas cnrs
senior researcher directeur de recherche
head of dependable'

'a model driven approach to scenario based requirements

May 16th, 2020 - a model driven approach to scenario based requirements engineering is proposed the ap proach which is based on

puter automated multi paradigm modeling campam aims to improve the software process a framework is given and implemented to reason about models'

'model driven dependability assessment of software systems

April 30th, 2020 - dorina c petriu is a professor at the department of systems and computer engineering at carleton university ottawa on canada her main research interests are in the areas of software performance modeling and model driven development with an emphasis on integrating performance and dependability engineering into the software development process'

'final technical report on quantifying dependability'

May 12th, 2020 - in this report we focus on how software contributes to dependability however software dependability is not discussed separately from the context of systems or socio technical systems specifically this report focuses on software dependability reliability safety security availability and maintainability'

'simona bernardi grupo de id en putación distribuida

April 9th, 2020 - article bmmnv18 author simona bernardi and stefano marrone and josé merseguer and roberio nardone and valeria vittorini year 2018 title towards a model driven engineering approach for the assessment of non functional properties using multi formalism journal software and systems modeling issn 1619 1366 doi 10 1007 s10270 018 0663 8 month 2 pages 1 24'

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integrated systems dynamic and evolving systems new needs for verification validation and certification automated verification and validation of critical systems model driven approaches for the assessment of dependable and secure systems experimental assessment of dependability and security'

'model driven dependability assessment of software systems'

May 21st, 2020 - It p gt over the last two decades a major challenge for researchers working on modeling and evaluation of puter based systems has been the assessment of system non functional properties nfp such as performance scalability dependability and security It p gt It p gt in this book the authors present cutting edge model driven techniques for modeling and analysis of software dependability'

'link formats model transformations

May 13th, 2020 - book model driven dependability assessment of software systems bernardi simona merseguer josé petriu dorina c 2013 xvi 187 p prehensive overview of standards based dependability modeling and analysis presentation based on the standard extension mechanisms of uml detailed case studies to illustrate single process steps'

'dorina c petriu systems and puter engineering'

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'supporting pattern based dependability engineering via

May 26th, 2020 - a pattern based approach as a new method for system dependability engineering based on the reuse of patterns the design a set of dsmls to specify the dependability patterns the

development of a set of tools to support the proposed approach the application of the approach in the context of railway systems these results suggest our work has wider applicability and usefulness'

'qos based model driven assessment of adaptive reactive systems

April 11th, 2020 - designing and maintaining such systems is a challenging task a key issue to be faced concerns the assessment of their effectiveness in terms of the ability to meet their required quality of service this paper introduces a model driven approach to support this assessment with a focus on performance and dependability attributes'

'supporting pattern based dependability engineering via

March 29th, 2020 - we use model driven engineering mde to describe dependability patterns and a methodology for developing dependable software systems using these patterns the resultant modeling framework reduces the time cost related to understanding and analyzing system artifact description due to the abstraction mechanisms and it reduces the cost of the development process due to the generation mechanisms'

'info on dorina petriu systems and puter engineering

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dependability and security in this book
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conference topics include but are not limited to system dependability modeling and assessment domain specific modeling formalisms model driven engineering methodologies'

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April 23rd, 2020 - this paper introduces a model driven approach to support this assessment with a focus on performance and dependability attributes our approach takes advantage from an existing intermediate modeling language and introduces the necessary extensions to cope with reactive systems the presented model driven framework exploits the idea of"

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