
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
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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*

assessment software systems and dependability today

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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'**

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systems with modelica to evaluate the
dependability of systems in which nodes**

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'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'

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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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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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'radiance 2017 international workshop on recent advances

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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'

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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 increas ingly software intensive systems having ?exible and automated support for instrumentation is key in making these assessment techniques ef?cient'

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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

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'a model driven approach for software systems reliability

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'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
puter 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'*

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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

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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

April 8th, 2020 - dr dorina c petriu selected publications book simona bernardi josé merseguer dorina c petriu model driven dependability assessment of software systems isbn 978 3 642 39511 6 springer october 2013 papers in refereed journals conferences and book chapters'

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dependability and security in this book the authors present cutting edge model driven techniques for modeling and analysis of software dependability most of them are based on dependable intelligent systems university of hull

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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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