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Comparing the SEI's Views and Beyond Approach for ...

Documenting Software Architectures: Views and Beyond (V&B), an approach that holds that documenting a software architecture is a matter of choosing a set of relevant views of the architecture, documenting each of those views, and then documenting information that applies to more than one view or to the set of views as a whole Details of the

Documenting Software Architectures: Views and Beyond

Documenting Software Architectures: Views and Beyond Paul Clements*, David Garlan**, Reed Little*, Robert Nord*, Judith Stafford* Carnegie Mellon University Pittsburgh, Pennsylvania 15213 USA

Comparing the SEI's Views and Beyond Approach for ...

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Using ontology to support development of software ...

Documenting software architectures, in which the documentation is organized as a set of architecture views. Each view addresses one or more of the concerns of stakeholders, the parties involved in the development project, such as executives, software developers, and software architects. Traditional view-based approaches, such as the Reference

Documenting Software Architectures: Organization of ...

2 Software Architectures and Documentation Software architecture has emerged as an important sub-discipline of software engineering, particularly in the realm of large system development. Architecture gives us intellectual control over a complex system by allowing us ...

A Pattern Language for Documenting Software Architectures

Documenting software architectures of information systems in enterprises is the Zachman framework [29], a two-dimensional matrix that associates views with stakeholders. Hofmeister et al [13] propose a set of 4 views for documenting the architecture assisted by the use of the Unified Modeling Language (UML)

Library of Congress Cataloging-in-Publication Data

14 Notations for Architecture Views 53 15 Examples 54 Chapter 1 Module Views 55 A module is an implementation unit of software that provides a coherent unit of functionality. Modules form the basis of many standard architecture views. This chapter defines modules and outlines the information required for documenting module views 11 Overview 55

An ISO/IEC 42010 (IEEE Std 1471) Annotated Bibliography

Appropriate software structures and views should be and how to represent them. One of the reasons for the lack of consensus on 1 structures, views, and representations is that software quality at- Documenting software architectures with ANSI/IEEE Std 1471-2000," Software Engineering Institute, Tech Rep, 2005 [15] P C Clements, F Bachmann

Software Architecture in Practice - GitHub Pages

Other books focus on software and system architecture and product-line development. Still others, from the SEI's CERT Program, describe technologies and practices needed to manage software and network security risk. These and all books in the series address critical problems in software engineering for which practical solutions are available.

Documenting Software Architectures - index-of.co.uk

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Extending ANSI/IEEE Standard 1471 for Representing ...

Both software engineering research community and standardisation organisations recognized a need for a general standard as a guideline for modelling software architectures.

Archie: A Tool for Detecting, Monitoring, and Preserving ...

D20 [Software Engineering]: Object Oriented Design Methods; D21 [Software Architectures]: Patterns General Terms Design, Performance,

Reliability Keywords Architecture, Degradation, Patterns, Tactics 1 INTRODUCTION Architectural knowledge depicting design decisions and their associated rationales, is often undocumented and tacit in nature

Qualitative Evaluation of Dependency Graph Representativeness

of a Spinnaker OSS project micro-services-based software architecture and MDG, providing assessment of possibilities in using MDGs for documenting microservices-based software architectures Method: The study uses a qualitative approach to evaluate the MDG representativeness of software architecture description Evaluation is done

Architectural Decision Making for Service-Based Platform ...

particular kind of software architectures: software architectures based on one or more software platforms A software platform is a collection of software sub-systems, like communication middleware and databases, and interfaces which together form a reusable infrastructure for developing a set of related software applications To build a concrete

Patterns of Practical Architecting

Practice on Architectural Description of Software-intensive Systems [5] Context: Practical Architecting Upon discovering G Meszaros' "Architectural Patterns" [6], it occurred to us that documenting our approach as a system of patterns might offer the right degree of flexibility, capture the essence of making architectural judgements, and avoid

Preserving and Reusing Architectural Design Decisions

of this period, there was no distinction between software and hardware, as both were sold together and software only worked for the hardware it was designed for The IBM System/360 2 (development started in 1965) was the first to change this In this family of computers, the same software could be used in different hardware versions

UNIT I INTRODUCTION

Faster bus architectures (such as PCI) have eliminated the traditional data transfer bottleneck of older buses (ISA) The future of virtual instrumentation is tightly coupled with PC technology 32 Software If the computer is the heart of the virtual instrument systems, the software is their brain The software