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Software Architecture in Practice

Software Architecture in Practice Second Edition Bassbook Page i Thursday, March 20, 2003 7:21 PM Third Edition The SEI Series in Software Engineering represents is a collaborative undertaking of the Carnegie Mellon Software Engineering Institute (SEI) and Addison-Wesley to develop and publish books on software engineering and

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- what software architecture is
- why software architecture is important
- the relationships between system qualities and software architectures
- software architectural patterns and tactics, and their relationship to system qualities

This course is the most fundamental of the courses in the SEI Software Architecture Curriculum At the

Software Architecture Reconstruction: Practice Needs and ...

software architectures that the Software Engineering Institute (SEI) has identified in its work with Department of Defense (DoD) and commercial organizations These needs and approaches are presented through descriptions of several practice scenarios for architecture re-construction

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Software Architecture - uni-saarland.de

Practice, Wiley, January 2009 • G Fairbanks, Just Enough Software Architecture: A Risk-Driven Approach, Marshall & Brainerd, August 2010 • Amy Brown and Greg Wilson (eds) The Architecture of Open Source Applications, 2012 • References • Mary Shaw and David Garlan, Software Architecture: Perspectives on an Emerging Discipline,

Documenting Software Architectures: Views and Beyond

* This author is with the Software Engineering Institute at Carnegie Mellon University Modern software architecture practice embraces the concept of architectural views A view is a

Safety Tactics for Software Architecture Design

Safety Tactics for Software Architecture Design Weihang Wu Tim Kelly Department of Computer Science, University of York, York YO10 5DD, UK {weihangwu, timkelly}@csyork.ac.uk Abstract The influence of architecture in assurance of system safety is being increasingly recognised in mission-critical software applications

Scenario-Based Software Architecture Evaluation Methods ...

If a single architecture is analyzed, SAAM indicates the weak or strong points, together with the points of where the architecture fails to meet its modifiability requirements Scenario-Based Software Architecture Evaluation Methods: An Overview Mugurel T Ionita¹, Dieter K Hammer¹, Henk Obbink²

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Managing Architectural Design Decisions for Safety-Critical Software Systems Weihang Wu, Tim Kelly ¹ Software Engineering Institute at Carnegie Mellon University tecture provides the system-level context from which the software architecture is built Moreover, unifying the design of system and software architectures can effec-

The Process of Architecting for Software / System ...

The Process of Architecting for Software / System Engineering AMINE CHIGANI Today, architecting is well-recognized in practice as evidenced by job titles such as Software Architect, Solution Architect, Enterprise Architect, Application (SEI): Software Architecture Professional Certificate Program [SEI 2010]

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Views and Viewpoints in Software Systems Architecture

nings of a theory and practice of views suitable for software systems architecture 2 A Brief History of Views Multiple views have a long history in software engineering dating back to at least the 1970s in work such as Ross' Structured Analysis (henceforth RSA, or SADT) [27] The motivation for multiple views is separation of concerns

A Survey of Software Architecture Viewpoint Models

A Survey of Software Architecture Viewpoint Models Nicholas May nick.may@netlink.com.au Abstract The documentation of software architecture is carried out in many different ways One method is to break up the description into separate perspectives that address the different concerns that stakeholders have with software architecture

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Architectural Patterns for Usability

Architectural Patterns for Usability Len Bass and Bonnie E John Software Engineering Institute/Human Computer Institute Carnegie Mellon University Pittsburgh, Pa, 15213 USA 4122686763 {lenbass,bonniejohn}@cmuedu ABSTRACT Facets of usability that require architectural support such as cancellation, undo, and progress bars are identified