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DoD DACS Technical Reports

A Business Case for Software Process Improvement - The purpose of this State of the Art Report (SOAR) is to provide the details necessary to rationalize, from a business perspective, investing in and performing software process improvement. (9/96)

A History of Software Measurement at Rome Laboratory - This document describes software measurement activities conducted by Rome Laboratory (RL) from the early seventies to 1993. (7/93)

An Analysis of Two Formal Methods: VDM and Z - This paper compares and contrasts the strengths and weaknesses of the Vienna Development Method (VDM) and Z in the software design lifecycle phase, and compares and contrasts VDM and Z to other formal models. (8/97)

An Overview of Object Oriented Design - This report summarizes the history of OOD, presents an OOD methodology, evaluates programming language support for OOD, and explores OOD's impact on software development. (4/91)

A Review of Formal Methods - This report overviews the technical basis for formal methods. Specification methods and two methods of formally verifying that an implementation satisfies a specification are summarized. (5/93)

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A Review of Non-ADA to ADA Conversion - This report provides a discussion of the processes and problems involved with the conversion of software from early High Order Languages (HOLs) to Ada. (8/93)

Artificial Neural Networks Technology - Describes what artificial neural networks are, how to use them, and where they are currently being applied.

Electronic Publishing on the World Wide Web: An Engineering Approach - A DACS Technical Handbook, that provides guidelines to information providers for disseminating information through the World Wide Web. (3/95) **Sale \$5.00**

Modern Empirical Cost and Schedule Estimation Tools - The purpose of this paper is to identify, discuss, compare and contrast software cost estimating models and tools that address modern philosophies. (8/97)

Object-Oriented Database Management Systems - The report provides an understanding of the issues relevant to OODBMS technology and describes where commercial products stand on these issues. (9/93)

Software Design Methods - This report provides readers with a useful snapshot of software design technology that can be used as a tutorial for the uninitiated, a starting point for detailed research, or a guide for those who will be developing software in the future. (3/95)

Software Analysis and Test Technologies - Examines current software analysis, and test technology and needs that should be filled by future technology. (2/92)

Software Engineering Baselines - The purpose of this report is to provide baseline information about a selected set of metrics, specifically productivity, complexity, and reliability. (7/96)

Software Interoperability - This report summarizes the significant issues and terminology used in the field of software interoperability, and concludes with a new view of interoperability and a novel way of addressing it. (10/96)

Software Reusability - This report describes important reusability projects around the world, Ada repositories in the U. S., and problem areas that hinder reusability from being common practice. (8/90)

Software Prototyping and Requirements Engineering - Describes the motivation for software prototyping in general and specifically in requirements engineering. Summary analyses of 4 software requirements and specification techniques and prototyping tools cover 20 techniques and tools. (6/92)

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