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Studies Of Software Process
Improvement Methods

Case Studies Of Software Process Improvement Methods

Over the past decade, there has

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been an increase in attention and focus on the discipline of software engineering. Software engineering tools and techniques have been developed to gain more predictable quality improvement results.

Process standards such as

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*Capability Maturity Model
Integration (CMMI), ISO 9000,
Software Process Improvement and
Capability dEtermination (SPICE),
Agile Methodologies, and others
have been proposed to assist
organizations to achieve more*

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predictable results by incorporating these proven standards and procedures into their software process. Software Process Improvement and Management: Approaches and Tools for Practical Development offers the latest

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research and case studies on software engineering and development. The production of new process standards assist organizations and software engineers in adding a measure of predictability to the software

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*process. Companies can gain a
decisive competitive advantage by
applying these new and theoretical
methodologies in real-world
scenarios. Researchers, scholars,
practitioners, students, and anyone
interested in the field of software*

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*development and design should
access this book as a major
compendium of the latest research
in the field.*

*A Software Process Model
Handbook for Incorporating
People's Capabilities offers the*

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*most advanced approach to date,
empirically validated at software
development organizations. This
handbook adds a valuable
contribution to the much-needed
literature on people-related aspects
in software engineering. The*

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primary focus is on the particular challenge of extending software process definitions to more explicitly address people-related considerations. The capability concept is not present nor has it been considered in most software

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process models. The authors have developed a capabilities-oriented software process model, which has been formalized in UML and implemented as a tool. A Software Process Model Handbook for Incorporating People's Capabilities

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guides readers through the incorporation of the individual's capabilities into the software process. Structured to meet the needs of research scientists and graduate-level students in computer science and engineering, this book

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is also suitable for practitioners in industry.

This book and its accompanying CD-ROM, are designed to give readers hands-on experience of C++ programming and the entire software engineering life-cycle.

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Substantial and realistic case studies are used to illustrate alternative approaches to software development, supported by the SELECT Yourdon CASE (Computer Aided Software Engineering) tool provided with the

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book.

*This book constitutes the refereed
proceedings of the 4th
International Conference on
Product Focused Software Process
Improvement, PROFES 2002, held
in Rovaniemi, Finland in*

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December 2002. The 48 revised papers presented together with 2 keynote contributions were carefully reviewed and selected from 70 submissions. The papers are organized in topical sections on improvement management, process

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*modeling, software quality, Agile
software development, process
improvement approaches, methods
and techniques, embedded software
process improvement, process
improvement case studies, effective
use of measurements, wireless*

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*services, use cases, knowledge
management, embedded systems
methods, COTS quality techniques,
frameworks, mobile solutions, and
methods and techniques.*

Principles and Applications

4th International Conference,

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***PROFES 2002 Rovaniemi,
Finland, December 9-11, 2002,
Proceedings***

***Experiences of Test Automation
An Object-oriented Approach
Software Development***

14th European Conference,

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*EuroSPI 2007, Potsdam, Germany,
September 26-28, 2007,
Proceedings*

This book is about a
significant step forward in
software development. It
brings state-of-the-art

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ontology reasoning into
mainstream software
development and its
languages. Ontology Driven
Software Development is the
essential, comprehensive
resource on enabling

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technologies, consistency checking and process guidance for ontology-driven software development (ODSD). It demonstrates how to apply ontology reasoning in the lifecycle of software

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development, using current and emerging standards and technologies. You will learn new methodologies and infrastructures, additionally illustrated using detailed industrial case studies. The

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book will help you: Learn how ontology reasoning allows validations of structure models and key tasks in behavior models. Understand how to develop ODSD guidance engines for

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important software development activities, such as requirement engineering, domain modeling and process refinement. Become familiar with semantic standards, such as the Web

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Ontology Language (OWL)
and the SPARQL query
language. Make use of
ontology reasoning, querying
and justification techniques
to integrate software models
and to offer guidance and

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traceability supports. This book is helpful for undergraduate students and professionals who are interested in studying how ontologies and related semantic reasoning can be

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applied to the software development process. In addition, it will also be useful for postgraduate students, professionals and researchers who are going to embark on their research in

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areas related to ontology or software engineering.

Why is it so difficult to change organizations? What does it really take to make “process improvement” yield measurable results? For

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more than 30 years, Donald Riefer has been guiding software teams through the technical, organizational, and people issues that must be managed in order to make meaningful process

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changes—and better products. This practical guide draws from his extensive experience, featuring 11 case studies spanning the public and private sectors and even

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academia. Each case study illuminates the original conditions; describes options and recommendations; details reactions, outcomes, and lessons learned; and provides essential references

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and resources. Eleven case studies provide insightful, empirical data from real-world organizations Provides a broad view across organizational settings and factors, such as personnel,

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and technical environments,
including cloud, Agile, and
open source options
Illuminates the hard-won
lessons, tradeoffs, and
impacts—with advice on how
to engineer successful,

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sustainable changes yourself
EVOLVING SOFTWARE
PROCESSES The book
provides basic building
blocks of evolution in
software processes, such as
DevOps, scaling agile

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process in GSD, in order to lay a solid foundation for successful and sustainable future processes. One might argue that there are already many books that include descriptions of software

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processes. The answer is “yes, but.” Becoming acquainted with existing software processes is not enough. It is tremendously important to understand the evolution and advancement

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in software processes so that developers appropriately address the problems, applications, and environments to which they are applied. Providing basic knowledge for these

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important tasks is the main goal of this book. Industry is in search of software process management capabilities. The emergence of the COVID-19 pandemic emphasizes the industry's

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need for software-specific process management capabilities. Most of today's products and services are based to a significant degree on software and are the results of largescale

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development programs. The success of such programs heavily depends on process management capabilities, because they typically require the coordination of hundreds or thousands of

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developers across different disciplines. Additionally, software and system development are usually distributed across geographical, cultural and temporal boundaries, which

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make the process management activities more challenging in the current pandemic situation. This book presents an extremely comprehensive overview of the evolution in software

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processes and provides a platform for practitioners, researchers and students to discuss the studies used for managing aspects of the software process, including managerial, organizational,

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economic and technical. It provides an opportunity to present empirical evidence, as well as proposes new techniques, tools, frameworks and approaches to maximize the significance

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of software process management. Audience The book will be used by practitioners, researchers, software engineers, and those in software process management, DevOps, agile

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and global software
development.

Software engineering is of
major importance to all
enterprises; however, the
key areas of software quality
and software process

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improvement standards and models are currently geared toward large organizations, where most software organizations are small and medium enterprises.

Software Process

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Improvement for Small and
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Techniques and Case Studies
offers practical and useful
guidelines, models, and
techniques for improving
software processes and

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Software Engineering
Practice

14th International
Conference, PROFES 2013,
Paphos, Cyprus, June 12-14,

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Software Engineering for
Science
Software Process
Improvement for Small and
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C++ and CASE Tools
Software Development
Failures

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contributions to software

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engineering. Featuring 42 reprinted articles, along with an introduction and chapter summaries to provide context, it serves as a "how-to" reference manual for software engineering best practices. It provides

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convenient access to Boehm's landmark work on product development and management processes. The book concludes with an insightful look to the future by Dr. Boehm.

Effective decisions are crucial to

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the success of any software project, but to make better decisions you need a better decision-making process. In Evaluating Project Decisions , leading project management experts introduce an innovative

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decision model that helps you tailor your decision-making process to systematically evaluate all of your decisions and avoid the bad choices that lead to project failure. Using a real-world, case study approach, the authors show

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how to evaluate software project problems and situations more effectively, thoughtfully assess your alternatives, and improve the decisions you make. Drawing on their own extensive research and experience, the authors bridge

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software engineering theory and practice, offering guidance that is both well-grounded and actionable. They present dozens of detailed examples from both successful and unsuccessful projects, illustrating what to do

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and what not to do. Evaluating Project Decisions will help you to analyze your options and ultimately make better decisions at every stage in your project, including:
Requirements—Elicitation,

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description, verification,
validation, negotiation,
contracting, and management
over the software life cycle
Estimates—Conceptual solution
design, decomposition, resource
and overhead allocation, estimate

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construction, and change
management Planning—Defining
objectives, policies, and scope;
planning tasks, milestones,
schedules, budgets, staff and other
resources; and managing projects
against plans Product—Proper

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product definition, development
process management, QA,
configuration management,
delivery, installation, training, and
field service Process—Defining,
selecting, understanding,
teaching, and measuring

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processes; evaluating process performance; and process improvement or optimization In addition, you will see how to evaluate decisions related to risk, people, stakeholder expectations, and global development. Simply

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put, you ' ll use what you learn here on every project, in any industry, whatever your goals, and for projects of any duration, size, or type.

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from the top names in the field *

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development organizations to
save time by mirroring others'
experiences and save money by
avoiding others' mistakes.

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book a long shelf life. The practice of test automation is becoming more and more popular, but many organizations are not yet experiencing success with it. This book unveils the secrets of how automation has been made to

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work in reality. The knowledge gained by reading this book can save months or years of effort in automating software testing by helping organizations avoid expensive mistakes and take advantage of proven ideas. By its

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nature, this book shows the current state of software test automation practice. The authors aim to keep the contributions focused on those things that are more universal (e.g. people issues, return on investment, etc.) and to

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minimize detailed technical content where this does not impede the process of learning valuable lessons, in order to give the book as long a shelf life as possible. Software practitioners always enjoy reading about what

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happened to others. For example, at conferences, case study presentations are usually very well attended. The authors/editors have gathered together a collection of experiences from a cross-section of industries and

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countries, both success stories and failures, in both agile and traditional development. In addition to the case studies, the authors/editors comment on issues raised in these stories, and also include a chapter

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summarizing good practices and common pitfalls.

In order to be able to write good software, students will need to be familiar with a range of techniques; good programming practice, experience of problem

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solving, familiarity with development methodologies, and knowledge of software processes. This book takes a new approach to the teaching of software development. Using a collection of case studies, it takes the student

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through the whole life cycle of building an application, starting at problem formulation, requirements analysis, system design, and the detail of the Java coding and testing. Each case study; -exploits object oriented

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concepts and techniques incrementally, with each case application getting more complex than the one before it-traces the path from problem statement through to implementation of the solution, giving guidance that is

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useful in subsequent case studies-
gives a 'conceptual roadmap'
where the student can follow the
development of an application,
and use those general principles in
future software development-uses
a different methodology, from a

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stand-alone application (computer simulator) to a distributed system (messaging server) through to a more complex system (workflow management system)

Software Architecture: A Case Based Approach

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Software War Stories

Specification Case Studies in RAISE

Software Processes and Life Cycle
Models

Software Process Management

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and Case Studies in Hong Kong

This textbook is intended for use by SPI (Software Process Improvement) managers and researchers, quality managers, and experienced project and research managers. The papers constitute the research proceedings

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of the 13th EuroSPI (European Software Process Improvement, www.eurospi.net) conference, held in Joensuu, Finland, 11-13 October 2006. The conference was held in 1994 in Dublin (Ireland), 1995 in Vienna (Austria), 1997 in Budapest

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(Hungary), 1998 in Gothenburg
(Sweden), 1999 in Pori (Finland),
2000 in Copenhagen (D- mark),
2001 in Limerick (Ireland), 2002 in
Nuremberg (Germany), 2003 in
Graz (Austria), 2004 in Trondheim
(Norway), and 2005 in Budapest

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(Hungary). - roSPI has established an experience library (library. eurospi. net) which will be continuously extended over the next years and will be made available to all - tendees. EuroSPI has also initiated a European Quali?cation

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Network in which different SPINs and national initiatives join mutually beneficial collaborations (EQN -- EU Leonardo da Vinci network project). With a founding conference on 5. 12. 2006 through EuroSPI partners and n- works, incollaborati

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onwiththeEuropeanUnion(supporte
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Programme), a European
certi?cation association will be
created for the IT and services
sector to o?er SPI knowledge and
certi?cates to industry, establishing

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close knowledge transfer links between research and industry. The biggest value of EuroSPI lies in its function as a European knowledge and experience exchange mechanism for SPI know-how between research institutions and industry.

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September 2006 Richard Messnarz
www.eurospi.net Organization
Organization Committee EuroSPI
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partnership (www.eurospi.

A comprehensive, practical book on
software management that dispels

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real-world issues through relevant case studies Software managers inevitably will meet obstacles while trying to deliver quality products and provide value to customers, often with tight time restrictions. The result: Software War Stories.

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This book provides readers with practical advice on how to handle the many issues that can arise as a software project unfolds. It utilizes case studies that focus on what can be done to establish and meet reasonable expectations as they

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occur in government, industrial, and academic settings. The book also offers important discussions on both traditional and agile methods as well as lean development concepts.

Software War Stories: Covers the basics of management as applied to

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situations ranging from agile projects to large IT projects with infrastructure problems Includes coverage of topics ranging from planning, estimating, and organizing to risk and opportunity management Uses twelve case studies to

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communicate lessons learned by the author in practice Offers end-of-chapter exercises, sample solutions, and a blog for providing updates and answers to readers' questions
Software War Stories: Case Studies in Software Management mentors

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practitioners, software engineers, students and more, providing relevant situational examples encountered when managing software projects and organizations.

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and useful summary of fundamental aspects of molecular force spectroscopy, and I believe it would make a worthwhile addition to any good scientific library. New research groups that are entering this field would be well advised to study this

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handbook in detail before venturing into the exciting and challenging world of molecular force spectroscopy." Matthew F. Paige, University of Saskatchewan, Journal of the American Chemical Society
Modern materials science and

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biophysics are increasingly focused on studying and controlling intermolecular interactions on the single-molecule level. Molecular force spectroscopy was developed in the past decade as the result of several unprecedented advances in

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the capabilities of modern scientific instrumentation, and defines a number of techniques that use mechanical force measurements to study interactions between single molecules and molecular assemblies in chemical and biological systems.

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Examples of these techniques, which typically target a specific range of experimental systems and geometries, include atomic force microscopy, optical tweezers, surface forces apparatus, and magnetic tweezers. With contributions by

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internationally renowned scientists,
Handbook of Molecular Force
Spectroscopy is a comprehensive,
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force spectroscopy, including
fundamentals of intermolecular
forces, technical aspects of the force

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measurements, and practical applications. The Handbook presents reviews of fundamental physical concepts of loading single and multiple chemical bonds on the nanometer scale, covers practical aspects of modern single-molecule

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level techniques, and describes several representative applications of force spectroscopy to the study of chemical and biological processes. Computer modeling of force spectroscopy experiments is addressed as well. In sum, this

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volume is an authoritative guide to planning, understanding, and analyzing modern molecular force spectroscopy experiments with an emphasis on biophysical research.

Component-based software development (CBD) is an emerging

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discipline that promises to take software engineering into a new era. Building on the achievements of object-oriented software construction, CBD aims to deliver software engineering from a cottage industry into an industrial age for

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Information Technology, wherein software can be assembled from components, in the manner that hardware systems are currently constructed from kits of parts. This volume provides a survey of the current state of **CBD**, as reflected by

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activities that have been taking place recently under the banner of CBD, with a view to giving pointers to future trends. The contributions report case studies — self-contained, fixed-term investigations with a finite set of clearly defined objectives

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and measurable outcomes — on a sample of the myriad aspects of CBD. The book includes chapters dealing with COTS (commercial off-the-shelf) components; methodologies for CBD; compositionality, i.e. how to

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calculate or predict properties of a composite from those of its constituents; component software testing; and grid computing.

Software Process Improvement
Product Focused Software Process
Improvement

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Case Studies and Practical Advice
Software Process Improvement and
Management: Approaches and
Tools for Practical Development
Guidelines and Examples
Software Change Management
Many organizations that have

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improved process maturity through
Capability Maturity Model
Integration (CMMI®) now also want
greater agility. Conversely, many
organizations that are succeeding
with Agile methods now want the
benefits of more mature processes.

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The solution is to integrate CMMI and Agile. Integrating CMMI® and Agile Development offers broad guidance for melding these process improvement methodologies. It presents six detailed case studies, along with essential real-world

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lessons, big-picture insights, and mistakes to avoid. Drawing on decades of process improvement experience, author Paul McMahon explains how combining an Agile approach with the CMMI process improvement framework is the

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fastest, most effective way to achieve your business objectives. He offers practical, proven techniques for CMMI and Agile integration, including new ways to extend Agile into system engineering and project

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management and to optimize performance by focusing on your organization's unique, culture-related weaknesses.

Presents three methods for evaluating the structure of large software systems during the design

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phase. The three techniques separately test for whether quality goals are met and how they interact; for modifiability and functionality; and for the feasibility and suitability of a set of services provided by a portion of the system.

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The authors, who are members of Carnegie Mellon's Software Engineering Institute, illustrate how to apply each step of the methods through case studies. c. Book News Inc.

This textbook is intended for SPI

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(software process improvement) managers and - searchers, quality managers, and experienced project and research managers. The papers constitute the research proceedings of the 16th EuroSPI (European Software Process

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Improvement, www.eurospi.net)
conference held in Alcala (Madrid
region), September 2 – 4, 2009,
Spain. Conferences have been held
since 1994 in Dublin, 1995 in
Vienna (Austria), 1997 in Budapest
(Hungary), 1998 in Gothenburg

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(Sweden), 1999 in Pori (Finland),
2000 in Copenhagen (Denmark),
2001 in Limerick (Ireland), 2002 in
Nuremberg (G- many), 2003 in
Graz (Austria), 2004 in Trondheim
(Norway), 2005 in Budapest
(Hungary), 2006 in Joensuu

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(Finland), 2007 in Potsdam
(Germany), 2008 in Dublin
(Ireland), and 2009 in Alcala
(Spain). EuroSPI established an
experience library
(library.eurospi.net) which will be
continuously extended over the next

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few years and will be made available to all attendees. EuroSPI also created an umbrella initiative for establishing a European Qualification Network in which different SPINs and national initiatives join mutually beneficial

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collaborations (ECQA – European Certification and Qualification Association, www.ecqa.org). With a general assembly during October 15 – 16, 2007 through Euro-SPI partners and networks, in collaboration with the European

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Union (supported by the EU Leonardo da Vinci Programme) a European certification association has been created (www.eucertificates.org, www.ecqa.org) for the IT and services sector to offer SPI knowledge and certificates to

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industry, establishing close knowledge transfer links between research and industry.

Like other sciences and engineering disciplines, software engineering requires a cycle of model building, experimentation,

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and learning. Experiments are valuable tools for all software engineers who are involved in evaluating and choosing between different methods, techniques, languages and tools. The purpose of Experimentation in Software

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Engineering is to introduce students, teachers, researchers, and practitioners to empirical studies in software engineering, using controlled experiments. The introduction to experimentation is provided through a process

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perspective, and the focus is on the steps that we have to go through to perform an experiment. The book is divided into three parts. The first part provides a background of theories and methods used in experimentation. Part II then

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devotes one chapter to each of the five experiment steps: scoping, planning, execution, analysis, and result presentation. Part III completes the presentation with two examples. Assignments and statistical material are provided in

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appendixes. Overall the book provides indispensable information regarding empirical studies in particular for experiments, but also for case studies, systematic literature reviews, and surveys. It is a revision of the authors' book,

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which was published in 2000. In addition, substantial new material, e.g. concerning systematic literature reviews and case study research, is introduced. The book is self-contained and it is suitable as a course book in undergraduate or

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graduate studies where the need for empirical studies in software engineering is stressed. Exercises and assignments are included to combine the more theoretical material with practical aspects. Researchers will also benefit from

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the book, learning more about how to conduct empirical studies, and likewise practitioners may use it as a “cookbook” when evaluating new methods or techniques before implementing them in their organization.

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Managing Software Engineering
Barry W. Boehm's Lifetime
Contributions to Software
Development, Management, and
Research
Case Studies and Proven
Techniques for Faster Performance

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Case Studies in Software
Engineering
Software Engineering Processes
13th European Conference,
EuroSpi 2006, Joensuu, Finland,
October 11-13, 2006, Proceedings

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Integrate critical roles to improve overall performance in complex engineering projects Integrating Program Management and Systems Engineering shows how organizations can become more effective, more efficient, and more responsive, and enjoy better performance outcomes.

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The discussion begins with an overview of key concepts, and details the challenges faced by System Engineering and Program Management practitioners every day. The practical framework that follows describes how the roles can be integrated successfully to streamline

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project workflow, with a catalog of tools for assessing and deploying best practices. Case studies detail how real-world companies have successfully implemented the framework to improve cost, schedule, and technical performance, and coverage of risk management throughout helps you

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ensure the success of your organization's own integration strategy. Available course outlines and PowerPoint slides bring this book directly into the academic or corporate classroom, and the discussion's practical emphasis provides a direct path to implementation. The

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integration of management and technical work paves the way for smoother projects and more positive outcomes. This book describes the integrated goal, and provides a clear framework for successful transition. Overcome challenges and improve cost, schedule, and technical

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performance Assess current capabilities and build to the level your organization needs Manage risk throughout all stages of integration and performance improvement Deploy best practices for teams and systems using the most effective tools Complex engineering systems are prone to

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budget slips, scheduling errors, and a variety of challenges that affect the final outcome. These challenges are a sign of failure on the part of both management and technical, but can be overcome by integrating the roles into a cohesive unit focused on delivering a high-value product. Integrating

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Program Management with Systems Engineering provides a practical route to better performance for your organization as a whole.

This book is a broad discussion covering the entire software development lifecycle. It uses a comprehensive case study to address

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each topic and features the following:
A description of the development, by the fictional company Homeowner, of the DigitalHome (DH) System, a system with "smart" devices for controlling home lighting, temperature, humidity, small appliance power, and security A set of scenarios that provide

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a realistic framework for use of the DH System material Just-in-time training: each chapter includes mini tutorials introducing various software engineering topics that are discussed in that chapter and used in the case study A set of case study exercises that provide an opportunity to engage

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students in software development practice, either individually or in a team environment. Offering a new approach to learning about software engineering theory and practice, the text is specifically designed to: Support teaching software engineering, using a comprehensive case study covering

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the complete software development lifecycle Offer opportunities for students to actively learn about and engage in software engineering practice Provide a realistic environment to study a wide array of software engineering topics including agile development Software

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Engineering Practice: A Case Study Approach supports a student-centered, "active" learning style of teaching. The DH case study exercises provide a variety of opportunities for students to engage in realistic activities related to the theory and practice of software engineering.

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The text uses a fictitious team of software engineers to portray the nature of software engineering and to depict what actual engineers do when practicing software engineering. All the DH case study exercises can be used as team or group exercises in collaborative learning. Many of the

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exercises have specific goals related to team building and teaming skills. The text also can be used to support the professional development or certification of practicing software engineers. The case study exercises can be integrated with presentations in a workshop or short course for

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professionals.

This volume presents twelve case studies that use RAISE - Rigorous Approach to Industrial Software Engineering - to construct, analyse, develop and apply formal specifications. The case studies cover a wide range of application areas

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including government finance, case-based reasoning, multi-language text processing, object-oriented design patterns, component-based software design and natural resource management. By illustrating the variety of uses of formal specifications, the case studies also raise questions

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about the creation, purpose and scope of formal models before they are built. Additional resources and complete specifications for all of the case studies and the RAISE tools used to process them, are available on the World Wide Web. This book will be of particular interest to software

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engineers, especially those responsible for the initial stages of requirements engineering and software architecture and design. It will also be of interest to academics and students on advanced formal methods courses.

This book constitutes the refereed

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proceedings of the 14th International Conference on Product-Focused Software Process Improvement, PROFES 2013, held in Paphos, Cyprus, in June 2013. The 22 revised full papers presented together with 10 short papers and 2 tutorial papers were carefully reviewed and selected

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from 41 submissions. The papers are organized in topical sections on empirical software engineering, software process improvement, managing software processes, software measurement, decision support in software engineering, safety-critical software engineering, and

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software maintenance.

Evidence-Based Software Engineering
and Systematic Reviews
Integrating CMMI and Agile
Development

An Introduction to Modelling, Using
and Managing Agile, Plan-Driven and
Hybrid Processes

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22nd European Conference, EuroSPI
2015, Ankara, Turkey, September 30
-- October 2, 2015. Proceedings
Case Study Research in Software
Engineering
Evolving Software Processes

*This volume constitutes the refereed
proceedings of the 22st EuroSPI*

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conference, held in Ankara, Turkey, in September/October 2015. The 18 revised papers presented together with 9 selected key notes and workshop papers were carefully reviewed and selected from 49 submissions. They are organized in topical sections on SPI themed case

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studies; SPI approaches in safety-critical domains; SPI in social and organizational issues; software process improvement best practices; models and optimization approaches in SPI; SPI and process assessment; creating environments supporting innovation and improvement; social

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aspects of SPI: conflicts, games, gamification and other social approaches; risk management and functional safety management. An empirically based study of why software development failures happen, and the lessons we can learn. Failed or abandoned software development

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projects cost the U.S. economy alone billions of dollars a year. In Software Development Failures, Kweku Ewusi-Mensah offers an empirically grounded study that suggests why these failures happen and how they can be avoided. Case studies analyzed include the well-known Confirm travel industry

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reservation program, FoxMeyer's Delta, the IRS's Tax System Modernization, the Denver International Airport's Baggage Handling System, and CODIS. It has been estimated that one-third of software development projects fail or are abandoned outright because of

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cost overruns, delays, and reduced functionality. Some consider this an acceptable risk—that it is simply the cost of doing business. Ewusi-Mensah argues that understanding the factors involved in development failures will help developers and businesses bring down the rate of software failure and

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abandoned projects. Ewusi-Mensah explores the reasons software development projects are vulnerable to failure and why issues of management and organization are at the core of any failed project. He examines these projects not from a deterministically technical perspective but as part of a

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complex technical and social process; he proposes a framework of factors that contribute to the decision to abandon a project and enumerates the risks and uncertainties inherent in each phase of a project's life cycle. Exploring the multiplicity of factors that make software development risky, he

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presents empirical data that is reinforced by analyses of the reported cases. He emphasizes the role of the user in the development process and considers the effect of organizational politics on a project. Finally, he considers what lessons can be learned from past failures and how software

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development practices can be improved.

This book provides a comprehensive overview of the field of software processes, covering in particular the following essential topics: software process modelling, software process and lifecycle models, software process

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management, deployment and governance, and software process improvement (including assessment and measurement). It does not propose any new processes or methods; rather, it introduces students and software engineers to software processes and life cycle models,

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covering the different types ranging from “classical”, plan-driven via hybrid to agile approaches. The book is structured as follows: In chapter 1, the fundamentals of the topic are introduced: the basic concepts, a historical overview, and the terminology used. Next, chapter 2

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covers the various approaches to modelling software processes and lifecycle models, before chapter 3 discusses the contents of these models, addressing plan-driven, agile and hybrid approaches. The following three chapters address various aspects of using software processes

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and lifecycle models within organisations, and consider the management of these processes, their assessment and improvement, and the measurement of both software and software processes. Working with software processes normally involves various tools, which are the focus of

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chapter 7, before a look at current trends in software processes in chapter 8 rounds out the book. This book is mainly intended for graduate students and practicing professionals. It can be used as a textbook for courses and lectures, for self-study, and as a reference guide. When used

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as a textbook, it may support courses and lectures on software processes, or be used as complementary literature for more basic courses, such as introductory courses on software engineering or project management. To this end, it includes a wealth of examples and case studies, and each

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chapter is complemented by exercises that help readers gain a better command of the concepts discussed. Project-Based Software Engineering is the first book to provide hands-on process and practice in software engineering essentials for the beginner. The book presents steps

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through the software development life cycle and two running case studies that develop as the steps are presented. Running parallel to the process presentation and case studies, the book supports a semester-long software development project. This book focuses on object-oriented

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software development, and supports the conceptualization, analysis, design and implementation of an object-oriented project. It is mostly language-independent, with necessary code examples in Java. A subset of UML is used, with the notation explained as needed to support the readers' work.

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Two running case studies a video game and a library check out system show the development of a software project. Both have sample deliverables and thus provide the reader with examples of the type of work readers are to create. This book is appropriate for readers looking to gain experience

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*in project analysis, design
implementation, and testing.*

Methods and Case Studies

*10th International Conference,
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15-17, 2009, Proceedings*

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reviewed chapters that describe experiences with applying software engineering practices to the development of scientific software. It provides a better

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understanding of how software engineering is and should be practiced, and which software engineering practices are effective for scientific software. The book starts

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with a detailed overview of the Scientific Software Lifecycle, and a general overview of the scientific software development process. It highlights key issues commonly arising

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during scientific software development, as well as solutions to these problems. The second part of the book provides examples of the use of testing in scientific

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software development,
including key issues and
challenges. The chapters
then describe solutions
and case studies aimed at
applying testing to
scientific software

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development efforts. The final part of the book provides examples of applying software engineering techniques to scientific software, including not only

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computational modeling,
but also software for data
management and analysis.
The authors describe their
experiences and lessons
learned from developing
complex scientific

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software in different domains. About the Editors Jeffrey Carver is an Associate Professor in the Department of Computer Science at the University of Alabama. He is one of

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the primary organizers of the workshop series on Software Engineering for Science (<http://www.SE4Science.org/workshops>). Neil P. Chue Hong is Director of the Software

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Sustainability Institute
at the University of
Edinburgh. His research
interests include barriers
and incentives in research
software ecosystems and
the role of software as a

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research object. George K. Thiruvathukal is Professor of Computer Science at Loyola University Chicago and Visiting Faculty at Argonne National Laboratory. His current

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research is focused on software metrics in open source mathematical and scientific software.

This book constitutes the refereed proceeding of the 14th European Software

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Process Improvement
Conference, EuroSPI 2007,
held in Potsdam, Germany,
in September 2007. The 18
revised full papers
presented together with an
introductory paper were

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carefully reviewed and
selected from 60
submissions. The papers
are organized in topical
sections on enforcement,
alignment, tailoring,
focus on SME issues,

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improvement analysis and empirical studies, new avenues of SPI, SPI methodologies, as well as testing and reliability. The highly dynamic world of information technology

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service management stresses the benefits of the quick and correct implementation of IT services. A disciplined approach relies on a separate set of

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assumptions and principles as an agile approach, both of which have complicated implementation processes as well as copious benefits. Combining these two approaches to enhance

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the effectiveness of each, while difficult, can yield exceptional dividends.

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software developers,
programmers, information
technology professionals,
researchers, academicians,
and students.

In the decade since the
idea of adapting the

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evidence-based paradigm for software engineering was first proposed, it has become a major tool of empirical software engineering. Evidence-Based Software Engineering

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and Systematic Reviews
provides a clear
introduction to the use of
an evidence-based model
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Organizational Systems for
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A Case Study Approach
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Methods

Ontology-Driven Software
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**This Book Describes
Systematic Methods For
Evaluating Software**

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**Architectures And Applies
Them To Real-Life Cases.
Evaluating Software
Architectures Introduces
The Conceptual Background
For Architecture Evaluation
And Provides A Step-By-Step**

**Guide To The Process Based
On Numerous Evaluations
Performed In Government
And Industry.**

**Abstract: "This report
describes the case studies
approach applied at a**

number of Siemens software development organizations to observe the impact of software process improvement methods. In addition, the report provides guidance to software

**development organizations
that want to improve their
processes. A set of
organization performance
measures are defined to help
an organization observe its
software process**

improvement over time. An approach is given for selecting software process improvement methods. The report concludes with a description of common implementation problems,

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and recommendations for organizations to improve their software processes." Software engineering is playing an increasingly significant role in computing and informatics,

necessitated by the complexities inherent in large-scale software development. To deal with these difficulties, the conventional life-cycle approaches to software

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engineering are now giving way to the "process system" approach, encompassing development methods, infrastructure, organization, and management. Until now, however, no book fully

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**addressed process-based
software engineering or set
forth a fundamental theory
and framework of software
engineering processes.
Software Engineering
Processes: Principles and**

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Applications does just that. Within a unified framework, this book presents a comparative analysis of current process models and formally describes their algorithms. It systematically

enables comparison between current models, avoidance of ambiguity in application, and simplification of manipulation for practitioners. The authors address a broad range of

topics within process-based software engineering and the fundamental theories and philosophies behind them. They develop a software engineering process reference model

(SEPRM) to show how to solve the problems of different process domains, orientations, structures, taxonomies, and methods. They derive a set of process benchmarks-based on a

series of international surveys-that support validation of the SEPRM model. Based on their SEPRM model and the unified process theory, they demonstrate that current

process models can be integrated and their assessment results can be transformed between each other. Software development is no longer just a black art or laboratory activity. It is

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**an industrialized process
that requires the skills not
just of programmers, but of
organization and project
managers and quality
assurance specialists.
Software Engineering**

Processes: Principles and Applications is the key to understanding, using, and improving upon effective engineering procedures for software development.

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**Organizing Committee we
are proud to present the
proceedings of the 10
International Conference on
Product Focused Software
Process - improvement
(PROFES 2009), held in**

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Oulu, Finland. Since the first conference in 1999, the conference has established its place in the software engineering community as a respected conference that brings together participants

**from academia and industry.
The roots of PROFES are in
professional software
process improvement
motivated by product and
service quality needs. The
conference addresses both**

**the solutions found in
practice as well as relevant
research results from
academia. To ensure that
PROFES retains its high
quality and focus on the
most relevant research**

issues, the conference has actively maintained close collaboration with industry and subsequently widened its scope to the research areas of collaborative and agile software development. A

special focus for 2009 was placed on software business to bridge research and practice in the economics of software engineering. This enabled us to cover software development in a more

**comprehensive manner and
tackle one of the most
important current
challenges identified by the
software industry and
software research
community - namely, the**

shift of focus from

“products” to “services.”

**The current global economic
downturn emphasizes the
need for new methods and
so- tions for fast and
business-oriented**

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**development of products and
services in a globally
distributed environment.
Systems, Software and
Services Process
Improvement
Case Studies in Software**

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Management

Integrating Program

Management and Systems

Engineering

16th European Conference,

EuroSPI 2009, Alcala

(Madrid), Spain, September

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**2-4, 2009, Proceedings
Trends and Future
Directions
Experimentation in Software
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*Based on their own
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*case studies of
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international
corporations, in this book
the authors present
detailed practical
guidelines on the*

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*preparation, conduct,
design and reporting of
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softwareengineering. This
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