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The evolution of soft computing applications have offered a multitude of methodologies and techniques that are useful in facilitating new ways to address practical and real scenarios in a variety of fields. Exploring Innovative and Successful Applications of Soft Computing highlights the applications and conclusions associated with soft

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computing in different technological environments. Providing potential results based on new trends in the development of these services, this book aims to be a reference source for researchers, practitioners, and students interested in the most successful soft computing methods applied to recent problems.

C. Amting Directorate General Information Society, European Commission, Brussels th Under the 4 Framework of European Research, the European Systems and Software Initiative (ESSI) was part of the ESPRIT Programme. This initiative funded more than 470 projects in the area of software and system process improvements. The majority of

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these projects were process improvement experiments carrying out and taking up new development processes, methods and technology within the software development process of a company. In addition, nodes (centres of expertise), European networks (organisations managing local activities), training and dissemination actions complemented the process improvement experiments. ESSI aimed at improving the software development capabilities of European enterprises. It focused on best practice and helped European companies to develop world class skills and associated technologies to build the increasingly complex and varied

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systems needed to compete in the marketplace. The dissemination activities were designed to build a forum, at European level, to exchange information and knowledge gained within process improvement experiments. Their major objective was to spread the message and the results of experiments to a wider audience, through a variety of different channels. The European Experience Exchange (I;UR~X) project has been one of these dissemination activities within the European Systems and Software Initiative. ~UR~X has collected the results of practitioner reports from numerous workshops in Europe and presents, in this series of books, the results of

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Best Practice achievements in European Companies over the last few years.

Managing Risk Methods for Software Systems

Development Pearson Education

Your business reputation can take years to build—and mere minutes to destroy The range of business threats is evolving rapidly but your organization can thrive and gain a competitive advantage with your business vision for enterprise risk management.

Trends affecting markets—events in the global financial markets, changing technologies, environmental priorities, dependency on intellectual property—all underline how important it is to keep up to speed on the latest financial risk

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management practices and procedures. This popular book on enterprise risk management has been expanded and updated to include new themes and current trends for today's risk practitioner. It features up-to-date materials on new threats, lessons from the recent financial crisis, and how businesses need to protect themselves in terms of business interruption, security, project and reputational risk management. Project risk management is now a mature discipline with an international standard for its implementation. This book reinforces that project risk management needs to be systematic, but also that it must be embedded to become part of an organization's DNA. This book

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promotes techniques that will help you implement a methodical and broad approach to risk management. The author is a well-known expert and boasts a wealth of experience in project and enterprise risk management. Easy-to-navigate structure breaks down the risk management process into stages to aid implementation. Examines the external influences that bring sources of business risk that are beyond your control. Provides a handy chapter with tips for commissioning consultants for business risk management services. It is a business imperative to have a clear vision for risk management. Simple Tools and Techniques for Enterprise Risk Management,

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Second Edition shows you the way.

Towards Extensible and Adaptable Methods in Computing
Exploiting Positive Risk
Assessing and Managing Security Risks

Encyclopedia of Information Science and Technology, Second Edition

Risk Management Technologies
Project Risk Management
Exploring Innovative and Successful Applications of Soft Computing

This book addresses extensible and adaptable computing, a broad range of methods and techniques used to systematically tackle the future growth of systems and respond

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proactively and seamlessly to change. The book is divided into five main sections: Agile Software Development, Data Management, Web Intelligence, Machine Learning and Computing in Education. These sub-domains of computing work together in mutually complementary ways to build systems and applications that scale well, and which can successfully meet the demands of changing times and contexts. The topics under each track have been carefully selected to highlight certain qualitative aspects of applications and systems, such as scalability,

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flexibility, integration, efficiency and context awareness. The first section (Agile Software Development) includes six contributions that address related issues, including risk management, test case prioritization and tools, open source software reliability and predicting the change proneness of software. The second section (Data Management) includes discussions on myriad issues, such as extending database caches using solid-state devices, efficient data transmission, healthcare applications and data security. In turn, the third section (Machine Learning) gathers

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papers that investigate ML algorithms and present their specific applications such as portfolio optimization, disruption classification and outlier detection. The fourth section (Web Intelligence) covers emerging applications such as metaphor detection, language identification and sentiment analysis, and brings to the fore web security issues such as fraud detection and trust/reputation systems. In closing, the fifth section (Computing in Education) focuses on various aspects of computer-aided pedagogical methods.

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The Microwave Way to Software Project Management takes you on a fast, entertaining and essential tour through the jungle software project managers can and will walk in to. For a lot of readers one conclusion still comes as a big surprise: doing projects is a peoples business. It's all about keeping everyone involved in the project happy by supporting their stakes. The trouble with stakes is, no one tells you what they are. You have to guess, negotiate, anticipate and manipulate to get passed the requirements directly through the fears and wishes of people. Software project management is

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more about psychology than technology. This book presents how in the real world of enterprises the 'traditional' techniques of project management, like Gantt-charting, can be used as communications techniques to keep some persons happy. The Microwave Way is not about knowing you have a deadline, but about how to move it. Naming a date is easy, telling you cannot make it, is the real job.

Project initiation; Project planning; Project execution and termination.

Research Paper (undergraduate) from the year 2004 in the subject

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Computer Science - Commercial Information Technology, grade:

1,0 (A), University Karlsruhe (TH)

(Institute for Computer Science),

73 entries in the bibliography,

language: English, abstract:

While computer scientists have developed and provided several

powerful computer languages

and techniques in the last

decades, facilitating the

development of modular,

maintainable and efficient code,

software development itself has

changed fundamentally.

Software development today

treats often with large-scale

projects, immense development

costs, and complex sys- tems

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which typically deploy multiple technologies and require multiple participants for their development. As with any large development exercise, the development of a complex system must be systematic and structured in order to manage this complexity, and in order to make possible the future maintenance and evolution of the system. Thus, while systematic and structured approaches are necessary for the development of such systems, software engineers have attempted to provide the structured methodologies and formalisms so often lacking in large software

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development projects. However, software development projects are still related with many different high risks. These risks cause software engineering projects to exceed budgets, miss deadlines, or deliver less than satisfactory products. As an example, U.S. companies alone spent an estimated \$59 billion in cost overruns on IT projects and another \$81 billion on cancelled software projects in 1995 (Johnson 1995). One reason for these high costs is that managers are not using adequate measures and executing efficient risk management assess and

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mitigate the risks involved in these projects. Although risk taking is essential to progress, and failure is often a key part of learning, the inevitability of risks does not imply the inability to recognize and manage risks to minimize potential negative consequences while retaining the opportunities for creating new and better software.

Obviously, this risk management process is particularly difficult for large-scale software projects and be handled in the same way as for small project, or just by providing more resources for all development factors.

Risk Management in Software

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Development Projects
Risk Management for

Engineering Projects

Information Systems

Development

Action Focused Assessment for
Software Process Improvement

Implementation Guidelines for
Major Projects

The Microwave Way to Software
Project Management

Effective Opportunity

Management for Projects

This book constitutes the proceedings of
the 23rd Ada-Europe International
Conference on Reliable Software

Technologies, Ada-Europe 2018, held in
Lisbon, Portugal, in June 2018. The 10

papers presented in this volume were
carefully reviewed and selected from 27

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submissions. They were organized in topical sections named: safety and security; Ada 202X; handling implicit overhead; real-time scheduling; and new application domains.

Software professionals and companies live in a new world today. Increasingly complex systems need to be built faster and cheaper. While many of the established approaches in software quality are still valid, the software quality community is going through a paradigm shift that requires a re-assessment of our current method and tool portfolio, as well as creating new and more effective solutions. We have selected two themes for this conference to highlight this paradigm shift. Our first theme, "production of attractive and reliable software at Internet speed" sums up the dilemma many software organisations face. In order to be competitive, software should contain

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advanced features and run reliably – yet it should be developed quickly and cost-effectively for the right market window. Finding the right balance between these objectives is a critical question that will determine business success in the years to come. Our second theme, –production of software with a dynamic partnership network– highlights the current trend of using partnerships and subcontractors as integral players in the software development process. Partnerships sometimes need to be created quickly to respond to a market opportunity, yet the costs and speed of cooperation must be competitive. Different companies have different processes, quality tools and cultures, yet they should cooperate seamlessly for the best result. This volume contains the edited technical presentations of PROLMAT 2006, the IFIP TC5 international conference held on June 15-17, 2006 at the Shanghai

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University in China. The papers collected here concentrate on knowledge strategies in Product Life Cycle and bring together researchers and industrialists with the objective of reaching a mutual understanding of the scientific - industry dichotomy, while facilitating the transfer of core research knowledge to core industrial competencies.

Few software projects are completed on time, on budget, and to their original specifications. Focusing on what practitioners need to know about risk in the pursuit of delivering software projects, *Applied Software Risk Management: A Guide for Software Project Managers* covers key components of the risk management process and the software development process, as well as best practices for software risk identification, risk planning, and risk analysis. Written in a clear and concise manner, this resource

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presents concepts and practical insight into managing risk. It first covers risk-driven project management, risk management processes, risk attributes, risk identification, and risk analysis. The book continues by examining responses to risk, the tracking and modeling of risks, intelligence gathering, and integrated risk management. It concludes with details on drafting and implementing procedures. A diary of a risk manager provides insight in implementing risk management processes. Bringing together concepts across software engineering with a project management perspective, *Applied Software Risk Management: A Guide for Software Project Managers* presents a rigorous, scientific method for identifying, analyzing, and resolving risk. *Learning from Case Studies Software Quality - ECSQ 2002 Managing Risk*

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Software Management Approaches:
Project Management, Estimation, and Life
Cycle Support
Processes for Executing Software Projects
at Infosys

Proceedings of PROLAMAT 2006, IFIP
TC5, International Conference, June 15-17
2006, Shanghai, China

***This book is the result of the
11 th International
Conference on Information
Systems Development
-Methods and Tools, Theory
and Practice, held in Riga,
Latvia, September
12-14,2002. The purpose of
this conference was to
address issues facing
academia and industry when
specifying, developing,
managing, reengineering and***

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improving information systems. Recently many new concepts and approaches have emerged in the Information Systems Development (ISD) field. Various theories, methodologies, methods and tools available to system developers also created new problems, such as choosing the most effective approach for a specific task, or solving problems of advanced technology integration into information systems. This conference provides a meeting place for ISD researchers and practitioners from Eastern and Western Europe as well as from other parts of the world. Main

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objectives of this conference are to share scientific knowledge and interests and to establish strong professional ties among the participants. The 11th International Conference on Information Systems Development (ISD'02) continues the tradition started with the first Polish-Scandinavian Seminar on Current Trends in Information Systems Development Methodologies, held in Gdansk, Poland in 1988. Through the years this Seminar has evolved into the International Conference on Information Systems Development. ISD'02 is the first ISD conference held in

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Eastern Europe, namely, in Latvia, one of the three Baltic countries.

In Managing High-Intensity Internet Projects, Ed Yourdon delivers instant, practical solutions for virtually every challenge you'll face in leading today's high-intensity, Internet-time projects. Yourdon's breakthrough management techniques cover strategies, politics, processes, tools, and the entire development lifecycle - from requirements through coding, monitoring progress through testing and delivery.

Companies that consistently produce high-quality software on schedule and within

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budget have an enormous advantage over their competitors. To achieve and maintain a high level of productivity, you need to know how to eliminate the factors that impede successful development -- a challenge this new reference addresses in depth. Managing risk is essential for every organization. However, significant opportunities may be lost by concentrating on the negative aspects of risk without bearing in mind the positive attributes. The objective of Project Risk Management: Managing Software Development Risk is to provide a distinct approach to a broad range of risks and

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rewards associated with the design, development, implementation and deployment of software systems. The traditional perspective of software development risk is to view risk as a negative characteristic associated with the impact of potential threats. The perspective of this book is to explore a more discerning view of software development risks, including the positive aspects of risk associated with potential beneficial opportunities. A balanced approach requires that software project managers approach negative risks with a view to reduce the likelihood and impact on a

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software project, and approach positive risks with a view to increase the likelihood of exploiting opportunities. Project Risk Management: Managing Software Development Risk explores software development risk both from a technological and business perspective. Issues regarding strategies for software development are discussed and topics including risks related to technical performance, outsourcing, cybersecurity, scheduling, quality, costs, opportunities and competition are presented. Bringing together concepts across the broad spectrum of software

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**engineering with a project
management perspective, this
volume represents both a
professional and scholarly
perspective on the topic.**

**Risk Management Processes
for Software Engineering
Models**

**Procedures, Methods and
Tools**

**Methods for Software
Systems Development
Software Metrics**

**Managing High-intensity
Internet Projects**

**A Guide for Software Project
Managers**

**Global Business Expansion:
Concepts, Methodologies,
Tools, and Applications**

*Each and every chapter covers the contents
up to a reasonable depth necessary for the*

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intended readers in the field. The book consists in all about 1200 exercises based on the topics and sub-topics covered. Keeping in view the emerging trends in newly emerging scenario with new dimension of software engineering, the book specially includes the following chapters, but not limited to these only. This book explains all the notions related to software engineering in a very systematic way, which is of utmost importance to the novice readers in the field of software Engineering.

This extensively revised second edition is a wide-ranging introduction to the concepts and ideas of multisensor data fusion, illustrated with a wealth of real-life examples. It includes 30 new sections along with an extensive list of up-to-date references.

The evidence continues to grow that the effective management of risk is the very kernel of successful project management. Its

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absence frequently leaves project sponsors lamenting missed objectives and shareholders coming to terms with an organisation's poor bottom line performance. Dr Robert Chapman's The Rules of Project Risk Management stands out from other risk management texts because it provides very practical guidance, supported by numerous mini case studies, many of which have attracted considerable publicity. The book brings to life both the benefits of project risk management when effectively applied and the ramifications when it is misunderstood or receives scant attention. The structure of the book is based on International Standard ISO 31000 seen through the lens of general systems theory - where projects are undertaken by organisations which have an external context and internal sub-systems. A project system is seen to be composed of seven key subject areas. Practical short 'rules' or

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implementation guidelines, written in an engaging style, are offered to support each of these subject areas and aid quick assimilation of key risk management messages. Each rule focuses on a specific aspect of effective risk management which warrants attention in its own right. Taken together the rules will provide those implementing projects with the building blocks to secure a project's objectives. They have been drawn from a wealth of experience gained from applying risk management practices across multiple industries from Europe to Africa, the Middle East and Asia.

This informative book is designed to help professionals involved with development of software or systems manage process improvement initiatives within their company by explaining the history, method and psychology behind AFA.

Continuous Risk Management Guidebook

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Systems Development (SEI Series In Software Engineering)
4th International Conference, SWQD 2012, Vienna, Austria, January 17-19, 2012,

Proceedings

Software Sizing, Estimation, and Risk

Management

Managing Software Development Risk

CMM in Practice

Software Best Practice 3

With Logic and Probabilistic Models

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

The modern field of software metrics emerged from the computer modeling and "statistical thinking" services of the 1980s. As the field evolved, metrics programs were integrated with project management, and metrics grew to be a major tool in the managerial decision-making process of software companies.

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Now practitioners in the software industry have

A comprehensive reference manual to the Certified Software Quality Engineer Body of Knowledge and study guide for the CSQE exam.

Using a combination of worked examples and case studies, this book examines how projects go over-cost, what lessons can be learned from past examples and what approaches have successfully been employed. Example case studies include: The Scottish Parliament Wembley Stadium Heathrow Terminal 5. If you're studying Surveying or Construction Management, or starting out as a Construction Cost Manager and need to plan or assess construction projects then this is the book for you.

The Certified Software Quality Engineer Handbook

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Concepts, Methodologies, Tools, and Applications

Construction Cost Management

Knowledge Enterprise: Intelligent

Strategies in Product Design,

Manufacturing, and Management

10th International Conference, XP

2009, Pula, Sardinia, Italy, May 25-29,

2009, Proceedings

Reliable Software Technologies Ada-

Europe 2000

Managing Risk in Information Systems

The book is organized around basic

principles of software project

management: planning and estimating,

measuring and controlling, leading and

communicating, and managing risk.

Introduces software development methods

from traditional (hacking, requirements to

code, and waterfall) to iterative

(incremental build, evolutionary, agile,

and spiral). Illustrates and emphasizes

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tailoring the development process to each project, with a foundation in the fundamentals that are true for all development methods. Topics such as the WBS, estimation, schedule networks, organizing the project team, and performance reporting are integrated, rather than being relegated to appendices. Each chapter in the book includes an appendix that covers the relevant topics from CMMI-DEV-v1.2, IEEE/ISO Standards 12207, IEEE Standard 1058, and the PMI® Body of Knowledge. (PMI is a registered mark of Project Management Institute, Inc.) With step-by-step guidelines, this bestselling reference discusses the management of project opportunities by expanding the traditional risk management process to address opportunities alongside threats. It offers valuable tools and techniques that expose

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and capture opportunities, minimize threats, and deal with all types of uncertainty in your business and projects. Written by an experienced consultant and risk management specialist, this guide emphasizes that risk processes must cover both opportunities and threats if they are to assist in accomplishing project objectives and maximizing business benefits.

The field of software engineering is characterized by speed and turbulence in many regards. While new ideas are proposed almost on a yearly basis, very few of them live for a decade or a longer. Lightweight software development methods were a new idea in the latter part of the 1990s. Now, ten years later, they are better known as agile software development methods, and an active community driven by practitioners has formed around the new way of thinking.

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Agile software development is currently being embraced by the research community as well. As a sign of increased research activity, most research-oriented conferences have an agile software development track included in the conference program. The XP conference series established in 2000 was the first conference dedicated to agile processes in software engineering. The idea of the conference is to offer a unique setting for advancing the state of the art in research and practice of agile processes. This year's conference was the tenth consecutive edition of this international event. Due to the diverse nature of different activities during the conference, XP is claimed to be more of an experience rather than a regular conference. It offers several different ways to interact and strives to create a truly collaborative environment where new ideas and exciting

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Systems Development (SEI Series In Software Engineering) findings can be presented and shared. This is clearly visible from this year's program as well.

PART OF THE JONES & BARTLETT
LEARNING INFORMATION SYSTEMS
SECURITY & ASSURANCE SERIES

Revised and updated with the latest data in the field, the Second Edition of *Managing Risk in Information Systems* provides a comprehensive overview of the SSCP(r) Risk, Response, and Recovery Domain in addition to providing a thorough overview of risk management and its implications on IT infrastructures and compliance. Written by industry experts, and using a wealth of examples and exercises, this book incorporates hands-on activities to walk the reader through the fundamentals of risk management, strategies and approaches for mitigating risk, and the anatomy of how to create a plan that reduces risk.

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Systems Development (SEI Instructor's Material for Managing Risk in Information Systems include: PowerPoint

Lecture Slides Instructor's Guide Course Syllabus Quiz & Exam Questions Case Scenarios/Handouts

Software Quality Control, Error Analysis, and Testing

Managing Risk on Software Projects

Security Software Development

Quality Connection - 7th European Conference on Software Quality, Helsinki, Finland, June 9-13, 2002. Proceedings

When Performance is Measured

Performance Improves

Waltzing with Bears

A Guide to Planning, Analysis, and Application

As businesses seek to compete on a global stage, they must be constantly aware of pressures from all levels: regional, local, and

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worldwide. The organizations that can best build advantages in diverse environments achieve the greatest success. Global Business Expansion: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on the emergence of new ideas and opportunities in various markets and provides organizational leaders with the tools they need to be successful. Highlighting a range of pertinent topics such as market entry strategies, transnational organizations, and competitive advantage, this

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multi-volume book is ideally designed for researchers, scholars, business executives and professionals, and graduate-level business students. Very few software projects are completed on time, on budget, and to their original specification causing the global IT software industry to lose billions each year in project overruns and reworking software. Research supports that projects usually fail because of management mistakes rather than technical mistakes. Risk Management in Software Development Projects focuses on what the practitioner

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needs to know about risk in the pursuit of delivering software projects. Risk Management in Software Development Projects will help all practicing IT Project Managers and IT Managers understand:

- * Key components of the risk management process
- * Current processes and best practices for software risk identification
- * Techniques of risk analysis
- * Risk Planning
- * Management processes and be able to develop the process for various organizations

This is the digital version of the printed book (Copyright © 2003). If There's No Risk On Your Next

Where To Download Managing Risk: Methods For Software Systems Development (SEI Series In Software Engineering) Project, Don't Do It.

Greater risk brings greater reward, especially in software development. A company that runs away from risk will soon find itself lagging behind its more adventurous competition. By ignoring the threat of negative outcomes—in the name of positive thinking or a can-do attitude—software managers drive their organizations into the ground. In *Waltzing with Bears*, Tom DeMarco and Timothy Lister—the best-selling authors of *Peopleware*—show readers how to identify and embrace worthwhile risks. Developers are then set free to push

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the limits. The authors present the benefits of risk management, including that it makes aggressive risk-taking possible, protects management from getting blindsided, provides minimum-cost downside protection, reveals invisible transfers of responsibility, isolates the failure of a subproject. Readers are armed with strategies for confronting the most common risks that software projects face: schedule flaws, requirements inflation, turnover, specification breakdown, and under-performance. Waltzing with Bears will help you mitigate the risks—before they turn into project-

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killing problems. Risks are out there—and they should be there—but there is a way to manage them.

This book presents intellectual, innovative, information technologies (I3-technologies) based on logical and probabilistic (LP) risk models. The technologies presented here consider such models for structurally complex systems and processes with logical links and with random events in economics and technology. The volume describes the following components of risk management technologies: LP-calculus; classes of LP-models of risk and efficiency; procedures for

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different classes; special software for different classes; examples of applications; methods for the estimation of probabilities of events based on expert information. Also described are a variety of training courses in these topics. The classes of risk models treated here are: LP-modeling, LP-classification, LP-efficiency, and LP-forecasting. Particular attention is paid to LP-models of risk of failure to resolve difficult economic and technical problems. Amongst the discussed procedures of I3-technologies are the construction of LP-models,

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LP-identification of risk models; LP-risk analysis, LP-management and LP-forecasting of risk. The book further considers LP-models of risk of invalidity of systems and processes in accordance with the requirements of ISO 9001-2008, LP-models of bank operational risks in accordance with the requirements of Basel-2, complex risk LP-models for preventing ammunition depot explosions, enterprise electric power supply systems, debugging tests of technical systems, etc. The book also considers LP-models of credit risks, securities portfolios,

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operational risks in banking, conteraction of bribes and corruption, etc. A number of applications is given to show the effectiveness of risk management technologies. In addition, topics of lectures and practical computer exercises intended for a two-semester course "Risk management technologies" are suggested.

Software Engineering Risk Management

Software Engineering

Advances in Methodologies, Components, and Management

Proactive Risk Management

Methods for Software

Engineering Excellence

Software Project Management

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Systems Development (SEI
in Practice
Series In Software Engineering)
Managing and Leading
Software Projects
Applied Software Risk
Management

Software Quality Control, Error, Analysis

"The increasing rate of technological change we are experiencing in our lifetime yields competitive advantage to organizations and individuals who are willing to embrace risk and the opportunities it presents.

Those who choose to minimize or avoid risk, as opposed to managing it, set a course for obsolescence. Hall has captured the essence of risk management and given us a practical guide for the

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application of useful principles in software-intensive product development. This is must reading for public and private sector managers who want to succeed as we begin the next century." - Daniel P. Czelusniak, Director, Acquisition Program Integration Office of the Under Secretary of Defense (Acquisition and Technology) The Pentagon "Since it is more than just common sense, the newcomer to risk management needs an intelligent guide. It is in this role that Elaine Hall's book excels. This book provides a set of practical and well-delineated processes for

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implementation of the discipline." - Tom DeMarco, from the Foreword Risk is inherent in the development of any large software system. A common approach to risk in software development is to ignore it and hope that no serious problems occur. Leading software companies use quantitative risk management methods as a more useful approach to achieve success. Written for busy professionals charged with delivering high-quality products on time and within budget, Managing Risk is a comprehensive guide that describes a success formula for managing software risk. The book is divided into five

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parts that describe a risk management road map designed to take you from crisis to control of your software project. Highlights include: Six disciplines for managing product development. Steps to predictable risk-management process results. How to establish the infrastructure for a risk-aware culture. Methods for the implementation of a risk management plan. Case studies of people in crisis and in control. To achieve consistent software project success under the pressures of today's software development environment, software

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organizations require achievable plans including viable estimates of schedule, resources, and risks. To estimate realistically, you must understand how to apply sound estimation processes, tools, and data. Software Sizing

Covers the entire process of risk management by providing methodologies for determining the sources of engineering project risk, and once threats have been identified, managing them through: identification and assessment (probability, relative importance, variables, risk breakdown structure, etc.); implementation of measures for their prevention,

**reduction or mitigation;
evaluation of impacts and
quantification of risks and
establishment of control
measures. It also considers
sensitivity analysis to
determine the influence of
uncertain parameters values
on different project results,
such as completion time, total
costs, etc. Case studies and
examples across a wide
spectrum of engineering
projects discuss such diverse
factors as: safety;
environmental impacts;
societal reactions; time and
cost overruns; quality control;
legal issues; financial
considerations; and political
risk, making this suitable for
undergraduates and**

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**graduates in grasping the
fundamentals of risk
management.**

**Simple Tools and Techniques
for Enterprise Risk
Management**

**Agile Processes in Software
Engineering and Extreme
Programming**

**The Rules of Project Risk
Management**

**5th Ada-Europe International
Conference Potsdam,
Germany, June 26-30, 2000,
Proceedings**

Software Quality

**Threats to application
security continue to evolve
just as quickly as the
systems that protect against
cyber-threats. In many
instances, traditional**

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firewalls and other conventional controls can no longer get the job done. The latest line of defense is to build security features into software as it is being developed. Drawing from the author's extensive experience as a developer, **Secure Software Development: Assessing and Managing Security Risks** illustrates how software application security can be best, and most cost-effectively, achieved when developers monitor and regulate risks early on, integrating assessment and management into the development life cycle. This book identifies the two primary reasons for

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inadequate security safeguards: Development teams are not sufficiently trained to identify risks; and developers falsely believe that pre-existing perimeter security controls are adequate to protect newer software. Examining current trends, as well as problems that have plagued software security for more than a decade, this useful guide: Outlines and compares various techniques to assess, identify, and manage security risks and vulnerabilities, with step-by-step instruction on how to execute each approach Explains the fundamental terms related to the

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security process Elaborates on the pros and cons of each method, phase by phase, to help readers select the one that best suits their needs Despite decades of extraordinary growth in software development, many open-source, government, regulatory, and industry organizations have been slow to adopt new application safety controls, hesitant to take on the added expense. This book improves understanding of the security environment and the need for safety measures. It shows readers how to analyze relevant threats to their applications and then implement time- and money-

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