The Incremental Commitment Spiral Model Principles And Practices For Successful Systems And Software

The Incremental Commitment Spiral Model **Parallel Agile – faster delivery, fewer defects, lower cost** The Persistent Power of Human Rights *Software Ownership Transfer Ideology, Psychology, and Law* Introduction to Agile Methods *The Future of Software Engineering* Cloud Native Transformation **Software Process Definition and Management** *Balancing Agility and Discipline* Human-System Integration in the System Development Process Fundamentals of Software Engineering *A CBT Practitioner's Guide to ACT Software Configuration Management Handbook, Third Edition* The Power of Human Rights **Agile and Lean Service-Oriented Development: Foundations, Theory, and Practice** *Software Processes and Life Cycle Models* **The Hidden Face of Rights Performance-Based Project Management Handbook of Software Engineering** *Software Design and Development: Concepts, Methodologies, Tools, and Applications* **Detecting Trust and Deception in Group Interaction The Essence of Software Lean Software Development The Sustainable Development Goals System of Systems Modeling and Analysis Human-System Integration in the System Development Process** *Metrics and Models in Software Quality Engineering* Immunity to Change **The Knowledge-Creating Company Training for Development** Human Rights Futures **MITRE Systems Engineering Guide** *Developing Leadership Talent* **A Review of the Next Generation Air Transportation System INCOSE Systems Engineering Handbook Perception and Misperception in International Politics All About Love** Software Project Management Software Risk Management

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Metrics and Models in Software Quality Engineering Jul 10 2020 ""This is the single best book on software quality engineering and metrics that I've encountered."" -- Capers Jones, from the Foreword"Metrics and Models in Software Quality Engineering, Second Edition," is the definitive book on this essential topic of software development. Comprehensive in scope with extensive industry examples, it shows how to measure software quality and use measurements to improve the software development process. Four major categories of quality metrics and models are addressed: quality management, software reliability and projection, complexity, and customer view. In addition, the book discusses the fundamentals of measurement theory, specific quality metrics and tools, and methods for applying metrics to the software development process.New chapters bring coverage of critical topics, including: In-process metrics for software testingMetrics for object-oriented software developmentAvailability metricsMethods for conducting in-process quality assessments and software project assessmentsDos and Don'ts of Software Process Improvement, by Patrick O'TooleUsing Function Point Metrics to Measure Software Process Improvement, by Capers Jones In addition to the excellent balance of theory, techniques, and examples, this book is highly instructive and practical, covering one of the most important topics in software development--quality engineering.

The Power of Human Rights Aug 23 2021 This book celebrated the 50th anniversary of the Universal Declaration of Human Rights by showing how global human rights norms have influenced national government practices in eleven different countries around the world. Had the principles articulated in the Declaration had any effect on the behavior of states towards their citizens? What are the conditions under which international human rights norms are internalized in domestic practices? And what can we learn from this case about why, how, and under what conditions international norms in general influence the actions of states? This book draws on the work of social constructivists to examine these important issues. The contributors examine eleven countries representing five different world regions - Northern Africa, Sub-Saharan Africa, Southeast Asia, Latin America, and Eastern Europe - drawing practical lessons for activists and policy makers concerned with preserving and extending the human rights gains made during the past fifty years.

Software Process Definition and Management Feb 26 2022 The concept of processes is at the heart of software and systems engineering. Software process models integrate software engineering methods and techniques and are the basis for managing large-scale software and IT projects. High product quality routinely results from high process quality. Software process management deals with getting and maintaining control over processes and their evolution. Becoming acquainted with existing software process models is not enough, though. It is important to understand how to select, define, manage, deploy, evaluate, and systematically evolve software process models so that they suitably address the problems, applications, and environments to which they are applied. Providing basic knowledge for these important tasks is the main goal of this textbook. Münch and his co-authors aim at providing knowledge that enables readers to develop useful process models that are suitable for their own purposes. They start with the basic concepts. Subsequently, existing representative process models are introduced, followed by a description of how to create individual models and the necessary means for doing so (i.e., notations and tools). Lastly, different possible usage scenarios for process management are highlighted (e.g. process improvement and software process simulation). Their book is aimed at students and researchers working on software project management, software quality assurance, and software measurement; and at practitioners who are interested in process definition and management for developing, maintaining, and operating software-intensive systems and services.

The Knowledge-Creating Company May 08 2020 How have Japanese companies become world leaders in the automotive and electronics industries, among others? What is the secret of their success? Two leading Japanese business experts, Ikujiro Nonaka and Hirotaka Takeuchi, are the first to tie the success of Japanese companies to their ability to create new knowledge and use it to produce successful products and technologies. In The Knowledge-Creating Company, Nonaka and Takeuchi provide an inside look at how Japanese companies go about creating this new knowledge organizationally. The authors point out that there are two types of knowledge: explicit knowledge, contained in manuals and procedures, and tacit knowledge, learned only by experience, and communicated only indirectly, through metaphor and analogy. U.S. managers focus on explicit knowledge. The Japanese, on the other hand, focus on tacit knowledge. And this, the authors argue, is the key to their success--the Japanese have learned how to transform tacit into explicit knowledge. To explain how this is done--and illuminate Japanese business practices as they do so--the authors range from Greek philosophy to Zen Buddhism, from classical economists to modern management gurus, illustrating the theory of organizational knowledge creation with case studies drawn from such firms as Honda, Canon, Matsushita, NEC, Nissan, 3M, GE, and even the U.S. Marines. For instance, using Matsushita's development of the Home Bakery (the world's first fully automated bread-baking machine for home use), they show how tacit knowledge can be converted to explicit knowledge: when the designers couldn't perfect the dough kneading mechanism, a software programmer apprenticed herself with the master baker at Osaka International Hotel, gained a tacit understanding of kneading, and then conveyed this information to the engineers. In addition, the authors show that, to create knowledge, the best management style is neither top-down nor bottom-up, but rather what they call "middle-up-down," in which the middle managers form a bridge between the ideals of top management and the chaotic realities of the frontline. As we make the turn into the 21st century, a new society is emerging. Peter Drucker calls it the "knowledge society," one that is drastically different from the "industrial society," and one in which acquiring and applying knowledge will become key competitive factors. Nonaka and Takeuchi go a step further, arguing that creating knowledge will become the key to sustaining a competitive advantage in the future. Because the competitive environment and customer preferences changes constantly, knowledge perishes quickly. With The Knowledge-Creating Company, managers have at their fingertips years of insight from Japanese firms that reveal how to create knowledge continuously, and how to exploit it to make successful new products, services, and systems.

Agile and Lean Service-Oriented Development: Foundations, Theory, and Practice Jul 22 2021 Challenges in unpredictable markets, changing customer

requirements, and advancing information technologies have lead to progression towards service oriented engineering and agile and lean software development. These prevailing approaches to software systems provide solutions to challenges in demanding business environments. Agile and Lean Service-Oriented Development: Foundations, Theory and Practice explores the groundwork of service-oriented and agile and lean development and the conceptual basis and experimental evidences for the combination of the two approaches. Highlighting the best tools and guidelines for these developments in practice, this book is essential for researchers and practitioners in the software development and service computing fields.

The Incremental Commitment Spiral Model Nov 06 2022 "The title makes a huge promise: a way to divide commitment into increments that are both meetable (good news for developers) and meaningful (good news for managers and stakeholders). And the book makes good on that promise." –Tom DeMarco, Principal, The Atlantic Systems Guild, author of Peopleware, Deadline, and Slack "I am seriously impressed with this ICSM book. Besides being conceptually sound, I was amazed by the sheer number of clear and concise characterizations of issues, relationships, and solutions. I wanted to take a yellow highlighter to it until I realized I'd be highlighting most of the book." –Curt Hibbs, Chief Agile Evangelist, Boeing Use the ICSM to Generate and Evolve Your Life-Cycle Process Assets to Best Fit Your Organization's Diverse and Changing Needs Many systems development practitioners find traditional "one-size-fits-all" processes inadequate for the growing complexity, diversity, dynamism, and assurance needs of their products and services. The Incremental Commitment Spiral Model (ICSM) responds with a principle- and risk-based framework for defining and evolving your project and corporate process assets, avoiding pitfalls and disruption, and leveraging opportunities to increase value. This book explains ICSM's framework of decision criteria and principles, and shows how to apply them through relevant examples. It demonstrates ICSM's potential for reducing rework and technical debt, improving maintainability, handling emergent requirements, and raising assurance levels. Its coverage includes What makes a system development successful ICSM's goals, principles, and usage as a process-generation framework Creating and evolving processes to match your risks and opportunities Integrating your current practices and adopting ICSM concepts incrementally, focusing on your greatest needs and opportunities About the Website: Download the evolving ICSM guidelines, subprocesses, templates, tools, white papers, and academic support resources at csse.usc.edu/ICSM.

The Sustainable Development Goals Oct 13 2020 There have been significant efforts to implement the Sustainable Development Goals (SDGs) at multiple levels of governance across all regions of the world. However, the manner in which the global governance norms underlying the SDGs are actually being diffused is under-researched and not well understood. This book considers the promotion of the SDGs through the lens of norm diffusion theory, with a focus on three SDG policy areas; health, education and decent work. A distinctive feature of the book is that it offers multiple original case studies of SDG norm diffusion involving Asian and European actors. A unique feature is that the case studies in the book identify relevant SDG norm senders and norm receivers, and examine the relationship between them. The book also challenges the assumption that the SDGs themselves are static and unchanging, and reveals how SDG norms are dynamic and can be reformulated as a result of contestation between norm senders and norm receivers. As well as introducing a diverse and original set of case studies, the book therefore allows readers to deepen their understandings of the policy diffusion mechanisms by which SDGs are diffused, and grasp the patterns of success and failure in the implementation of these policies.

Software Configuration Management Handbook, Third Edition Sep 23 2021 Software configuration management (SCM) is one of the scientific tools that is aimed to bring control to the software development process. This new resource is a complete guide to implementing, operating, and maintaining a successful SCM system for software development. Project managers, system designers, and software developers are presented with not only the basics of SCM, but also the different phases in the software development lifecycle and how SCM plays a role in each phase. The factors that should be considered and the pitfalls that should be avoided while designing the SCM system and SCM plan are also discussed. In addition, this third edition is updated to include cloud computing and on-demand systems. This book does not rely on one specific tool or standard for explaining the SCM concepts and techniques; In fact, it gives readers enough information about SCM, the mechanics of SCM, and SCM implementation, so that they can successfully implement a SCM system.

The Essence of Software Dec 15 2020 A revolutionary concept-based approach to thinking about, designing, and interacting with software As our dependence on technology increases, the design of software matters more than ever before. Why then is so much software flawed? Why hasn't there been a systematic and scalable way to create software that is easy to use, robust, and secure? Examining these issues in depth, The Essence of Software introduces a theory of software design that gives new answers to old questions. Daniel Jackson explains that a software system should be viewed as a collection of interacting concepts, breaking the functionality into manageable parts and providing a new framework for thinking about design. Through this radical and original perspective, Jackson lays out a practical and coherent path,

accessible to anyone—from strategist and marketer to UX designer, architect, or programmer—for making software that is empowering, dependable, and a delight to use. Jackson explores every aspect of concepts—what they are and aren't, how to identify them, how to define them, and more—and offers prescriptive principles and practical tips that can be applied cost-effectively in a wide range of domains. He applies these ideas to contemporary software designs, drawing examples from leading software manufacturers such as Adobe, Apple, Dropbox, Facebook, Google, Microsoft, Twitter, and others. Jackson shows how concepts let designers preserve and reuse design knowledge, rather than starting from scratch in every project. An argument against the status quo and a guide to improvement for both working designers and novices to the field, The Essence of Software brings a fresh approach to software and its creation.

The Persistent Power of Human Rights Sep 04 2022 This book offers a unique combination of quantitative and qualitative research arguing for the persistent power of human rights norms.

Balancing Agility and Discipline Jan 28 2022 "Being a certified bibliophile and a professional geek, I have more shelf space devoted to books on software methods than any reasonable human should possess. Balancing Agility and Discipline has a prominent place in that section of my library, because it has helped me sort through the noise and smoke of the current method wars." --From the Foreword by Grady Booch "This is an outstanding book on an emotionally complicated topic. I applaud the authors for the care with which they have handled the subject." --From the Foreword by Alistair Cockburn "The authors have done a commendable job of identifying five critical factors--personnel, criticality, size, culture, and dynamism--for creating the right balance of flexibility and structure. Their thoughtful analysis will help developers who must sort through the agile-disciplined debate, giving them guidance to create the right mix for their projects." --From the Foreword by Arthur Pyster Agility and discipline: These apparently opposite attributes are, in fact, complementary values in software development. Plan-driven developers must also be agile; nimble developers must also be disciplined. The key to success is finding the right balance between the two, which will vary from project to project according to the circumstances and risks involved. Developers, pulled toward opposite ends by impassioned arguments, ultimately must learn how to give each value its due in their particular situations. Balancing Agility and Discipline sweeps aside the rhetoric, drills down to the operational core concepts, and presents a constructive approach to defining a balanced software development strategy. The authors expose the bureaucracy and stagnation that mark discipline without agility, and liken agility without discipline to unbridled and fruitless enthusiasm. Using a day in the life of two development teams and ground-breaking case studies, they illustrate the differences and similarities between agile and plan-driven methods, and show that the best development strategies have ways to combine both attributes. Their analysis is both objective and grounded, leading finally to clear and practical guidance for all software professionals--showing how to locate the sweet spot on the agility-discipline continuum for any given project. 0321186125B10212003

Handbook of Software Engineering Mar 18 2021 This handbook provides a unique and in-depth survey of the current state-of-the-art in software engineering, covering its major topics, the conceptual genealogy of each subfield, and discussing future research directions. Subjects include foundational areas of software engineering (e.g. software processes, requirements engineering, software architecture, software testing, formal methods, software maintenance) as well as emerging areas (e.g., self-adaptive systems, software engineering in the cloud, coordination technology). Each chapter includes an introduction to central concepts and principles, a guided tour of seminal papers and key contributions, and promising future research directions. The authors of the individual chapters are all acknowledged experts in their field and include many who have pioneered the techniques and technologies discussed. Readers will find an authoritative and concise review of each subject, and will also learn how software engineering technologies have evolved and are likely to develop in the years to come. This book will be especially useful for researchers who are new to software engineering, and for practitioners seeking to enhance their skills and knowledge.

Lean Software Development Nov 13 2020 Lean Software Development: An Agile Toolkit Adapting agile practices to your development organization Uncovering and eradicating waste throughout the software development lifecycle Practical techniques for every development manager, project manager, and technical leader Lean software development: applying agile principles to your organization In Lean Software Development, Mary and Tom Poppendieck identify seven fundamental "lean" principles, adapt them for the world of software development, and show how they can serve as the foundation for agile development approaches that work. Along the way, they introduce 22 "thinking tools" that can help you customize the right agile practices for any environment. Better, cheaper, faster software development. You can have all three–if you adopt the same lean principles that have already revolutionized manufacturing, logistics and product development. Iterating towards excellence: software development as an exercise in discovery Managing uncertainty: "decide as late as possible" by building change into the system. Compressing the value stream: rapid

development, feedback, and improvement Empowering teams and individuals without compromising coordination Software with integrity: promoting coherence, usability, fitness, maintainability, and adaptability How to "see the whole"–even when your developers are scattered across multiple locations and contractors Simply put, Lean Software Development helps you refocus development on value, flow, and people–so you can achieve breakthrough quality, savings, speed, and business alignment.

Software Processes and Life Cycle Models Jun 20 2021 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 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, 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 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 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 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 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 chapter is complemented by exercises that help readers gain a better command of the concepts discussed.

INCOSE Systems Engineering Handbook Nov 01 2019 A detailed and thorough reference on the discipline and practice of systems engineering The objective of the International Council on Systems Engineering (INCOSE) Systems Engineering Handbook is to describe key process activities performed by systems engineers and other engineering professionals throughout the life cycle of a system. The book covers a wide range of fundamental system concepts that broaden the thinking of the systems engineering practitioner, such as system thinking, system science, life cycle management, specialty engineering, system of systems, and agile and iterative methods. This book also defines the discipline and practice of systems engineering for students and practicing professionals alike, providing an authoritative reference that is acknowledged worldwide. The latest edition of the INCOSE Systems Engineering Handbook: Is consistent with ISO/IEC/IEEE 15288:2015 Systems and software engineering—System life cycle processes and the Guide to the Systems Engineering Body of Knowledge (SEBoK) Has been updated to include the latest concepts of the INCOSE working groups Is the body of knowledge for the INCOSE Certification Process This book is ideal for any engineering professional who has an interest in or needs to apply systems engineering practices. This includes the experienced systems engineer who needs a convenient reference, a product engineer or engineer in another discipline who needs to perform systems engineering, a new systems engineer, or anyone interested in learning more about systems engineering.

MITRE Systems Engineering Guide Feb 03 2020

Performance-Based Project Management Apr 18 2021 Even the most experienced project managers aren't immune to the more common and destructive reasons for project collapses. Poor time and budget performance, failure to deal with complexity, uncontrolled changes in scope . . . they can catch anyone off guard. Performance-Based Project Management can help radically improve your project's success rate, despite these and other obstacles that will try to take it down. Readers will discover how they can increase the probability of project success, detailing a step-by-step plan for avoiding surprises, forecasting performance, identifying risk, and taking corrective action to keep a project a success. Project leaders wishing to stand out among their peers who are continually hampered by these unexpected failures will learn how to:• Assess the business capabilities needed for a project• Plan and schedule the work• Determine the resources required to complete on time and on budget• Identify and manage risks to success• Measure performance in units meaningful to decision makersBy connecting mission strategy with project execution, this invaluable resource for project managers in every industry will help bring projects to successful, career-enhancing completion.

Developing Leadership Talent Jan 04 2020 Based on the popular Developing Leadership Talent program offered by the acclaimed Center for Creative Leadership, this important resource offers a nuts-and-bolts framework for putting in place a leadership development system that will attract and retain the best and brightest talent. Step by step, the authors explain how alignment with strategic goals and organizational purpose and effective developmental experiences are the backbone of a successful leadership program. An authoritative and useful book, Developing Leadership Talent is an essential tool for any leadership program.

Immunity to Change Jun 08 2020 Unlock your potential and finally move forward. A recent study showed that when doctors tell heart patients they will die if they don't change their habits, only one in seven will be able to follow through successfully. Desire and motivation aren't enough: even when it's literally a matter of life or death, the

ability to change remains maddeningly elusive. Given that the status quo is so potent, how can we change ourselves and our organizations? In Immunity to Change, authors Robert Kegan and Lisa Lahey show how our individual beliefs--along with the collective mind-sets in our organizations--combine to create a natural but powerful immunity to change. By revealing how this mechanism holds us back, Kegan and Lahey give us the keys to unlock our potential and finally move forward. And by pinpointing and uprooting our own immunities to change, we can bring our organizations forward with us. This persuasive and practical book, filled with hands-on diagnostics and compelling case studies, delivers the tools you need to overcome the forces of inertia and transform your life and your work.

Parallel Agile – faster delivery, fewer defects, lower cost Oct 05 2022 From the beginning of software time, people have wondered why it isn't possible to accelerate software projects by simply adding staff. This is sometimes known as the "nine women can't make a baby in one month" problem. The most famous treatise declaring this to be impossible is Fred Brooks' 1975 book The Mythical Man-Month, in which he declares that "adding more programmers to a late software project makes it later," and indeed this has proven largely true over the decades. Aided by a domain-driven code generator that quickly creates database and API code, Parallel Agile (PA) achieves significant schedule compression using parallelism: as many developers as necessary can independently and concurrently develop the scenarios from initial prototype through production code. Projects can scale by elastic staffing, rather than by stretching schedules for larger development efforts. Schedule compression with a large team of developers working in parallel is analogous to hardware acceleration of compute problems using parallel CPUs. PA has some similarities with and differences from other Agile approaches. Like most Agile methods, PA "gets to code early" and uses feedback from executable software to drive requirements and design. PA uses technical prototyping as a risk-mitigation strategy, to help sanity-check requirements for feasibility, and to evaluate different technical architectures and technologies. Unlike many Agile methods, PA does not support "design by refactoring," and it doesn't drive designs from unit tests. Instead, PA uses a minimalist UML-based design approach (Agile/ICONIX) that starts out with a domain model to facilitate communication across the development team, and partitions the system along use case boundaries, which enables parallel development. Parallel Agile is fully compatible with the Incremental Commitment Spiral Model (ICSM), which involves concurrent effort of a systems engineering team, a development team, and a test team working alongside the developers. The authors have been researching and refining the PA process for several years on multiple test projects that have involved over 200 developers. The book's example project details the design of one of these test projects, a crowdsourced traffic safety system.

Ideology, Psychology, and Law Jul 02 2022 Features the groundbreaking law-related research of political psychologists. Includes leading legal scholars' commentary and analysis of political psychologists' work. The first book to bring together experts to discuss the interaction between psychology, ideology, and law.

A CBT Practitioner's Guide to ACT Oct 25 2021 Interest in acceptance and commitment therapy (ACT) is expanding rapidly. Many of those who are interested in ACT are trained using a mechanistic cognitive behavioral therapy model (or MCBT). Utilizing both ACT and MCBT together can be difficult, because the approaches make different philosophical assumptions and have different theoretical models. The core purpose of the book is to help provide a bridge between ACT and MCBT. The emphasis of this book will be applied psychology, but it will also have important theoretical implications. The book will highlight where ACT and MCBT differ in their predictions, and will suggest directions for future research. It will be grounded in current research and will make clear to the reader what is known and what has yet to be tested. The core theme of A CBT-Practitioner's Guide to ACT is that ACT and CBT can be unified if they share the same philosophical underpinnings (functional contextualism) and theoretical orientation (relational frame theory, or RFT). Thus, from a CBT practitioner's perspective, the mechanistic philosophical core of MCBT can be dropped, and the mechanistic information processing theory of CBT can be held lightly and ignored in contexts where it is not useful. From an ACT practitioner's perspective, the decades of CBT research on cognitive schema and dysfunctional beliefs provides useful information about how clients might be cognitively fused and how this fusion might be undermined. The core premise of the book is that CBT and ACT can be beneficially integrated, provided both are approached from a similar philosophical and theoretical framework. The authors acknowledge that practitioners often have little interest in extended discussions of philosophy and theory. Thus, their discussion of functional contextualism and RFT is grounded clearly in clinical practice. They talk about what functional contextualism means for the practitioner in the room, with a particular client. They describe how RFT can help the practitioner to understand the barriers to effective client action.

Perception and Misperception in International Politics Oct 01 2019 Since its original publication in 1976, Perception and Misperception in International Politics has become a landmark book in its field, hailed by the New York Times as "the seminal statement of principles underlying political psychology." This new edition includes an extensive preface by the author reflecting on the book's lasting impact and legacy, particularly in the application of cognitive psychology to political decision making, and

brings that analysis up to date by discussing the relevant psychological research over the past forty years. Jervis describes the process of perception (for example, how decision makers learn from history) and then explores common forms of misperception (such as overestimating one's influence). He then tests his ideas through a number of important events in international relations from nineteenth- and twentieth-century European history. Perception and Misperception in International Politics is essential for understanding international relations today.

Software Project Management Jul 30 2019 Software Project Management explains the latest management strategies and techniques in software developments. It covers such issues as keeping the team motivated, cost-justifying strategies, deaflines and budgets.

The Future of Software Engineering Apr 30 2022 This book focuses on defining the achievements of software engineering in the past decades and showcasing visions for the future. It features a collection of articles by some of the most prominent researchers and technologists who have shaped the field: Barry Boehm, Manfred Broy, Patrick Cousot, Erich Gamma, Yuri Gurevich, Tony Hoare, Michael A. Jackson, Rustan Leino, David L. Parnas, Dieter Rombach, Joseph Sifakis, Niklaus Wirth, Pamela Zave, and Andreas Zeller. The contributed articles reflect the authors' individual views on what constitutes the most important issues facing software development. Both research- and technology-oriented contributions are included. The book provides at the same time a record of a symposium held at ETH Zurich on the occasion of Bertrand Meyer's 60th birthday.

The Hidden Face of Rights May 20 2021 Why we cannot truly implement human rights unless we also recognize human responsibilities When we debate questions in international law, politics, and justice, we often use the language of rights--and far less often the language of responsibilities. Human rights scholars and activists talk about state responsibility for rights, but they do not articulate clear norms about other actors' obligations. In this book, Kathryn Sikkink argues that we cannot truly implement human rights unless we also recognize and practice the corresponding human responsibilities. Focusing on five areas--climate change, voting, digital privacy, freedom of speech, and sexual assault--and providing many examples of on-the-ground initiatives where people choose to embrace a close relationship between rights and responsibilities, Sikkink argues for the importance of responsibilities to any comprehensive understanding of political ethics and human rights.

Human-System Integration in the System Development Process Dec 27 2021 In April 1991 BusinessWeek ran a cover story entitled, "I Can't Work This ?#!!@ Thing," about the difficulties many people have with consumer products, such as cell phones and VCRs. More than 15 years later, the situation is much the same"-but at a very different level of scale. The disconnect between people and technology has had society-wide consequences in the large-scale system accidents from major human error, such as those at Three Mile Island and in Chernobyl. To prevent both the individually annoying and nationally significant consequences, human capabilities and needs must be considered early and throughout system design and development. One challenge for such consideration has been providing the background and data needed for the seamless integration of humans into the design process from various perspectives: human factors engineering, manpower, personnel, training, safety and health, and, in the military, habitability and survivability. This collection of development activities has come to be called human-system integration (HSI). Human-System Integration in the System Development Process reviews in detail more than 20 categories of HSI methods to provide invaluable guidance and information for system designers and developers.

Software Design and Development: Concepts, Methodologies, Tools, and Applications Feb 14 2021 Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of software solutions. Software Design and Development: Concepts, Methodologies, Tools, and Applications brings together the best practices of theory and implementation in the development of software systems. This reference source is essential for researchers, engineers, practitioners, and scholars seeking the latest knowledge on the techniques, applications, and methodologies for the design and development of software systems.

System of Systems Modeling and Analysis Sep 11 2020 System of Systems Modeling and Analysis provides the reader with motivation, theory, methodology, and examples of modeling and analysis for system of system (SoS) problems. In addition to theory, this book contains history and conceptual definitions, as well as the theoretical fundamentals of SoS modeling and analysis. It then describes methods for SoS modeling and analysis, including use of existing methodology and original work, specifically oriented to SoS. Providing a bridge between theory and practice for modeling and analysis of SoS, this book includes generalized concepts and Methods, Tools, and Processes (MTP) applicable to SoS across any application domain. Examples of application from various fields will be used to provide a practical demonstration of the use of the methodologies. Features Offers a modern presentation of SoS principles and guided description of applying a modeling and analysis process to SoS engineering Provides additional modeling approaches useful for SoS engineering, including agent-based modeling Covers the current gap in literature

between theory and modeling/application Features examples of applications from various fields, such as energy grids and regional transportation Includes questions, examples, and exercises at the end of each chapter This book is intended for senior undergraduate students in engineering programs studying SoS modeling, SoS analysis, and SoS engineering courses. Professional engineers will also benefit from MTP and examples as a baseline for specific user applications.

Detecting Trust and Deception in Group Interaction Jan 16 2021 This book analyzes the multimodal verbal and nonverbal behavior of humans in both an artificial game, based on the well-known Mafia and Resistance games, as well as selected other settings. This book develops statistical results linking different types of facial expressions (e.g. smile, pursed lips, raised eyebrows), vocal features (e.g., pitch, loudness) and linguistic features (e.g., dominant language, turn length) with both unary behaviors (e.g. is person X lying?) to binary behaviors (Is person X dominant compared to person Y? Does X trust Y? Does X like Y?). In addition, this book describes machine learning and computer vision-based algorithms that can be used to predict deception, as well as the visual focus of attention of people during discussions that can be linked to many binary behaviors. It is written by a multidisciplinary team of both social scientists and computer scientists. Meetings are at the very heart of human activity. Whether you are involved in a business meeting or in a diplomatic negotiation, such an event has multiple actors, some cooperative and some adversarial. Some actors may be deceptive, others may have complex relationships with others in the group. This book consists of a set of 11 chapters that describe the factors that link human behavior in group settings and attitudes to facial and voice characteristics. Researchers working in social sciences (communication, psychology, cognitive science) with an interest in studying the link between human interpersonal behavior and facial/speech/linguistic characteristics will be interested in this book. Computer scientists, who are interested in developing machine learning and deep learning based models of human behavior in group settings will also be interested in purchasing this book.

Human-System Integration in the System Development Process Aug 11 2020 In April 1991 BusinessWeek ran a cover story entitled, "I Can't Work This ?#!!@ Thing," about the difficulties many people have with consumer products, such as cell phones and VCRs. More than 15 years later, the situation is much the same-but at a very different level of scale. The disconnect between people and technology has had society-wide consequences in the large-scale system accidents from major human error, such as those at Three Mile Island and in Chernobyl. To prevent both the individually annoying and nationally significant consequences, human capabilities and needs must be considered early and throughout system design and development. One challenge for such consideration has been providing the background and data needed for the seamless integration of humans into the design process from various perspectives: human factors engineering, manpower, personnel, training, safety and health, and, in the military, habitability and survivability. This collection of development activities has come to be called human-system integration (HSI). Human-System Integration in the System Development Process reviews in detail more than 20 categories of HSI methods to provide invaluable guidance and information for system designers and developers.

Cloud Native Transformation Mar 30 2022 In the past few years, going cloud native has been a big advantage for many companies. But it's a tough technique to get right, especially for enterprises with critical legacy systems. This practical hands-on guide examines effective architecture, design, and cultural patterns to help you transform your organization into a cloud native enterprise—whether you're moving from older architectures or creating new systems from scratch. By following Wealth Grid, a fictional company, you'll understand the challenges, dilemmas, and considerations that accompany a move to the cloud. Technical managers and architects will learn best practices for taking on a successful company-wide transformation. Cloud migration consultants Pini Reznik, Jamie Dobson, and Michelle Gienow draw patterns from the growing community of expert practitioners and enterprises that have successfully built cloud native systems. You'll learn what works and what doesn't when adopting cloud native—including how this transition affects not just your technology but also your organizational structure and processes. You'll learn: What cloud native means and why enterprises are so interested in it Common barriers and pitfalls that have affected other companies (and how to avoid them) Context-specific patterns for a successful cloud native transformation How to implement a safe, evolutionary cloud native approach How companies addressed root causes and misunderstandings that hindered their progress Case studies from real-world companies that have succeeded with cloud native transformations

Software Ownership Transfer Aug 03 2022 Organizations invest immense amounts of time, resources, and attention in their software projects. But all too often, when it's time to transfer the finished project to new "owners," they settle for the most superficial classroom training, documentation, and code walkthroughs. These conventional approaches to knowledge transfer often fail, dramatically reducing the value of new systems in production. You can do much better - and Software Ownership Transfer will show you how. This is the first practical, hands-on guide to knowledge transfer in today's agile environments. Using a realistic, large-scale case study, ThoughtWorks expert Vinod Sankaranarayanan shows how to elevate knowledge transfer from "necessary evil" to an activity full of agility and innovation, and bring together multiple

organizations and cultures to make ownership transfer work. Sankaranarayanan explains why mere documentation of error reports and processes isn't enough, and shows how to successfully craft a knowledge transfer program that's more substantive and effective. Along the way, he offers guidance on overcoming the commercial compromises and personal tensions often associated with transferring systems to new ownership; and on transforming mere "knowledge transfer" into something much better: "taking ownership."