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KEY=PROCESS - WESTON ELENA

SOFTWARE ENGINEERING PROCESS WITH THE UPEDU

Addison-Wesley This book provides a general introduction to the essentials of the software development process, that series of activities that facilitate developing better software in less time. It starts with the basic aspects of software process which are the methods, tools and the concepts of the software life cycle. The second and third parts emphasize the engineering and management disciplines that are the core of any software engineering process. The fourth part, which is concerned with the quality aspects of software process, presents the aspects of process assessment and measurement. The last chapter introduces a software process metamodel, which is the theoretical foundation for any software process. The approach is general, and the explanations are not tied to a particular commercial process. The book includes an ongoing case study example which does use the Unified Process for Education, which is derived from The Rational Unified Process. This book thus enables readers to gain experience with some of the basics of the Rational Unified Process the industry's most powerful tool for incorporating the best practices into software development and prepares them to work with any organization's software process. The book includes a robust Website with all the sample deliverables and artifacts created from the case study, as well as chapter-by-chapter sections with further, up-to-date readings on process advancements, the PDF files for all the figures in the book, links to Software Engineering news sites, chapter by chapter information on commercial tools, industry standards, etc.

E-LEARNING BY DESIGN

John Wiley & Sons From William Horton -- a world renowned expert with more than thirty-five years of hands-on experience creating networked-based educational systems -- comes the next-step resource for e-learning training professionals. Like his best-selling book *Designing Web-Based Training*, this book is a comprehensive resource that provides practical guidance for making the thousand and one decisions needed to design effective e-learning. *e-Learning by Design* includes a systematic, flexible, and rapid design process covering every phase of designing e-learning. Free of academic jargon and confusing theory, this down-to-earth, hands-on book is filled with hundreds of real-world examples and case studies from dozens of fields. "Like the book's predecessor (*Designing Web-based Training*), it deserves four stars and is a must read for anyone not selling an expensive solution. -- From *Training Media Review*, by Jon Aleckson, www.tmreview.com, 2007

THE KEY ELEMENTS OF CLASSROOM MANAGEMENT

MANAGING TIME AND SPACE, STUDENT BEHAVIOR, AND INSTRUCTIONAL STRATEGIES

ASCD An easy-to-read guide offers an introduction to effective classroom management, including tips on setting up a classroom, establishing routines, and pacing the curriculum.

EFFECTIVE TEACHING IN HIGHER EDUCATION

Routledge Assists academic staff to develop their effectiveness as teachers and improve their students' learning by giving practical guidelines and suggestions for teaching and a series of activities.

BIOMIMETICS -- MATERIALS, STRUCTURES AND PROCESSES

EXAMPLES, IDEAS AND CASE STUDIES

Springer Science & Business Media The book presents an outline of current activities in the field of biomimetics and integrates a variety of applications comprising biophysics, surface sciences, architecture and medicine. Biomimetics as innovation method is characterised by interdisciplinary information transfer from the life sciences to technical application fields aiming at increased performance, functionality and energy efficiency. The contributions of the book relate to the research areas: - Materials and structures in nanotechnology and biomaterials - Biomimetic approaches to develop new forms, construction principles and design methods in architecture - Information and dynamics in automation, neuroinformatics and biomechanics Readers will be informed about the latest research approaches and results in biomimetics with examples ranging from bionic nano-membranes to function-targeted design of

tribological surfaces and the translation of natural auditory coding strategies.

ACTIVE TRAINING

A HANDBOOK OF TECHNIQUES, DESIGNS, CASE EXAMPLES AND TIPS

John Wiley & Sons Active Training has become a classic book in the field of training and development and a standard text on graduate-level HRD programs. It turned instructional design on its head by shifting the emphasis away from the instructor and on to the learner. A lot has happened in the training field in the last 10 years since the previous edition was written and this new edition -- the third significant update in 25 years -- adds sections to comprehensively cover new learning technologies and applications, including social media, m-learning, and creating affordable media; addresses the evolving role of trainers, including onboarding, leading change, coaching managers, mentoring, internal consulting, and building teams; tackles new business realities and challenges, including doing more with less, globalization, and working with multi-generational workforces; and offers best practices for new trainer tasks, skills, and knowledge, including working with the C-suite, engaging and retaining employees, developing leaders, vendor management, and working with SMEs. Revisions include updated workplace examples, new and revised templates and worksheets, updated theory and research sections, and expanded guidelines on evaluating and training ROI, extending the value of training programs, and managing Active Training programs to show state-of-the art applications. What will continue to set these books apart is the relevance of dozens of new examples, the wisdom and impact of fresh practical tips, and the rigor and expertise supporting dozens of exercises and techniques.

TRENDS AND APPLICATIONS IN SOFTWARE ENGINEERING

PROCEEDINGS OF THE 6TH INTERNATIONAL CONFERENCE ON SOFTWARE PROCESS IMPROVEMENT (CIMPS 2017)

Springer This book includes a selection of papers from the 2017 International Conference on Software Process Improvement (CIMPS'17), presenting trends and applications in software engineering. Held from 18th to 20th October 2017 in Zacatecas, Mexico, the conference provided a global forum for researchers and practitioners to present and discuss the latest innovations, trends, results, experiences and concerns in various areas of software engineering, including but not limited to software processes, security in information and communication technology, and big data. The main topics covered are organizational models, standards and methodologies, software process improvement, knowledge management, software systems, applications and tools, information and communication technologies and processes in non-software domains (mining, automotive,

aerospace, business, health care, manufacturing, etc.) with a demonstrated relationship to software engineering challenges.

HUMAN SYSTEMS ENGINEERING AND DESIGN III

PROCEEDINGS OF THE 3RD INTERNATIONAL CONFERENCE ON HUMAN SYSTEMS ENGINEERING AND DESIGN (IHSED2020): FUTURE TRENDS AND APPLICATIONS, SEPTEMBER 22-24, 2020, JURAJ DOBRILA UNIVERSITY OF PULA, CROATIA

Springer Nature This book focuses on novel design and systems engineering approaches, including theories and best practices, for promoting a better integration of people and engineering systems. It covers a range of innovative topics related to: development of human-centered systems; interface design and human-computer interaction; usability and user experience; innovative materials in design and manufacturing; biomechanics and physical rehabilitation, as well as safety engineering and systems complexity. The book, which gathers selected papers presented at the 3rd International Conference on Human Systems Engineering and Design: Future Trends and Applications (IHSED 2020), held on September 22-24, 2020, at Juraj Dobrila University of Pula, in Pula, Croatia, provides researchers and practitioners with a snapshot of the state-of-the-art and current challenges in the field of human systems engineering and design.

MULTIPLE INTELLIGENCES AND INSTRUCTIONAL TECHNOLOGY

ISTE (Interntl Soc Tech Educ In his first edition, popular writer and consultant Walter McKenzie showcased the natural fit between multiple intelligences theory and educational technology. The second edition builds on and extends this premise. You'll find new and revised lesson ideas and planning materials as well as updated Web sites, online resources, and activities for the latest hardware. Build your repertoire of differentiated teaching practices with this thoughtfully updated resource. Inspire every child to learn! FEATURES Sample lessons and classroom activities Materials to support multidisciplinary and special needs teaching Worksheets, templates, rubrics, and guidelines for evaluating media and software Multiple intelligences survey, evaluation tools, and useful templates on CD-ROM Also available: Spreadsheet Magic: Second Edition - ISBN 156484224X Web 2.0: New Tools, New Schools - ISBN 1564842347

LIBRARY AND INFORMATION SCIENCES

TRENDS AND RESEARCH

Springer This book explores the development, trends and research of library and information sciences (LIS) in the digital age. Inside, readers will find research and case studies written by LIS experts, educators and

theorists, most of whom have visited China, delivered presentations there and drafted their articles based on feedback they received. As a result, readers will discover the LIS issues and concerns that China and the international community have in common. The book first introduces the opportunities and challenges faced by the library and information literacy profession and discusses the key role of librarians in the future of information literacy education. Next, it covers trends in LIS education by examining the vision of the iSchool movement and detailing its practice in Syracuse University. The book then covers issues in information seeking and retrieval by showing how visual data mining technology can be used to detect the relationship and pattern between terms on the Q&A of a social media site. It also includes a case study regarding tracing information seeking behavior and usage on a multimedia website. Next, the book stresses the importance of building an academic accreditation framework for scientific datasets, explores the relationship between bibliometrics and university rankings, and details the birth and development of East Asian Libraries in North America. Overall, the book offers readers insight into the changing nature of LIS, including the electronic dissemination of information, the impact of the Internet on libraries, the changing responsibilities of library professionals, the new paradigm for evaluating information, and characteristics and functions of today's library personnel.

MANAGING TECHNICAL DEBT

REDUCING FRICTION IN SOFTWARE DEVELOPMENT

Addison-Wesley Professional “This is an incredibly wise and useful book. The authors have considerable real-world experience in delivering quality systems that matter, and their expertise shines through in these pages. Here you will learn what technical debt is, what is it not, how to manage it, and how to pay it down in responsible ways. This is a book I wish I had when I was just beginning my career. The authors present a myriad of case studies, born from years of experience, and offer a multitude of actionable insights for how to apply it to your project.” -Grady Booch, IBM Fellow

Master Best Practices for Managing Technical Debt to Promote Software Quality and Productivity As software systems mature, earlier design or code decisions made in the context of budget or schedule constraints increasingly impede evolution and innovation. This phenomenon is called technical debt, and practical solutions exist. In *Managing Technical Debt*, three leading experts introduce integrated, empirically developed principles and practices that any software professional can use to gain control of technical debt in any software system. Using real-life examples, the authors explain the forms of technical debt that afflict software-intensive systems, their root causes, and their impacts. They introduce proven approaches for identifying and assessing specific sources of technical debt, limiting new debt, and “paying off” debt over time. They describe how to establish managing technical debt as a core software

engineering practice in your organization. Discover how technical debt damages manageability, quality, productivity, and morale-and what you can do about it Clarify root causes of debt, including the linked roles of business goals, source code, architecture, testing, and infrastructure Identify technical debt items, and analyze their costs so you can prioritize action Choose the right solution for each technical debt item: eliminate, reduce, or mitigate Integrate software engineering practices that minimize new debt Managing Technical Debt will be a valuable resource for every software professional who wants to accelerate innovation in existing systems, or build new systems that will be easier to maintain and evolve.

TEACHING TODAY

A PRACTICAL GUIDE

Oxford University Press The edition has been updated to become more PGCE focused. In particular, it now includes signposting for coverage of the FENTO standards and further coverage of key areas such as interactive whiteboard training.

KNOWLEDGE AND CRITICAL PEDAGOGY

AN INTRODUCTION

Springer Science & Business Media In a globalized neo-colonial world an insidious and often debilitating crisis of knowledge not only continues to undermine the quality of research produced by scholars but to also perpetuate a neo-colonial and oppressive socio-cultural, political economic, and educational system. The lack of attention such issues receive in pedagogical institutions around the world undermines the value of education and its role as a force of social justice. In this context these knowledge issues become a central concern of critical pedagogy. As a mode of education that is dedicated to a rigorous form of knowledge work, teachers and students as knowledge producers, anti-oppressive educational and social practices, and diverse perspectives from multiple social locations, critical pedagogy views dominant knowledge policies as a direct assault on its goals. Knowledge and Critical Pedagogy: An Introduction takes scholars through a critical review of the issues facing researchers and educators in the last years of the first decade of the twenty-first century. Refusing to assume the reader's familiarity with such issues but concurrently rebuffing the tendency to dumb down such complex issues, the book serves as an excellent introduction to one of the most important and complicated issues of our time.

SCALING SOFTWARE AGILITY

BEST PRACTICES FOR LARGE ENTERPRISES

Pearson Education "Companies have been implementing large agile

projects for a number of years, but the ‘stigma’ of ‘agile only works for small projects’ continues to be a frequent barrier for newcomers and a rallying cry for agile critics. What has been missing from the agile literature is a solid, practical book on the specifics of developing large projects in an agile way. Dean Leffingwell’s book *Scaling Software Agility* fills this gap admirably. It offers a practical guide to large project issues such as architecture, requirements development, multi-level release planning, and team organization. Leffingwell’s book is a necessary guide for large projects and large organizations making the transition to agile development.” —Jim Highsmith, director, Agile Practice, Cutter Consortium, author of *Agile Project Management* “There’s tension between building software fast and delivering software that lasts, between being ultra-responsive to changes in the market and maintaining a degree of stability. In his latest work, *Scaling Software Agility*, Dean Leffingwell shows how to achieve a pragmatic balance among these forces. Leffingwell’s observations of the problem, his advice on the solution, and his description of the resulting best practices come from experience: he’s been there, done that, and has seen what’s worked.” —Grady Booch, IBM Fellow Agile development practices, while still controversial in some circles, offer undeniable benefits: faster time to market, better responsiveness to changing customer requirements, and higher quality. However, agile practices have been defined and recommended primarily to small teams. In *Scaling Software Agility*, Dean Leffingwell describes how agile methods can be applied to enterprise-class development. Part I provides an overview of the most common and effective agile methods. Part II describes seven best practices of agility that natively scale to the enterprise level. Part III describes an additional set of seven organizational capabilities that companies can master to achieve the full benefits of software agility on an enterprise scale. This book is invaluable to software developers, testers and QA personnel, managers and team leads, as well as to executives of software organizations whose objective is to increase the quality and productivity of the software development process but who are faced with all the challenges of developing software on an enterprise scale.

INFORMATION MANAGEMENT AND BIG DATA

5TH INTERNATIONAL CONFERENCE, SIMBIG 2018, LIMA, PERU, SEPTEMBER 3-5, 2018, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 5th International Conference on Information Management and Big Data, SIMBig 2018, held in Lima, Peru, in September 2018. The 34 papers presented were carefully reviewed and selected from 101 submissions. The papers address issues such as data mining, artificial intelligence, Natural Language Processing, information retrieval, machine learning, web mining.

THE B CORP HANDBOOK

HOW TO USE BUSINESS AS A FORCE FOR GOOD

Berrett-Koehler Publishers Join a Growing movement: Learn how you can join a fast-growing global movement to redefine success in business—led by well-known icons like Patagonia and Ben & Jerry’s as well as disruptive upstarts like Warby Parker and Etsy—recently covered by the New York Times, the Economist, the Wall Street Journal, Entrepreneur, and Inc. **Build a better business:** Drawing on best practices from 100+ B Corps, this book shows that using business as a force for good can help distinguish your company in a crowded market, attract and retain the best employees, and increase customer trust, loyalty, and evangelism for your brand. More than 1,000 companies from 80 industries and 30 countries are leading a global movement to redefine success in business. They’re called **B Corporations—B Corps for short—and these businesses create high-quality jobs, help build stronger communities, and restore the environment, all while generating solid financial returns.** Author and B Corp owner Ryan Honeyman worked closely with over 100 B Corp CEOs and senior executives to share their tips, advice, and best-practice ideas for how to build a better business and how to meet the rigorous standards for—and enjoy the benefits of—B Corp certification. This book makes the business case for improving your social and environmental performance and offers a step-by-step “quick start guide” on how your company can join an innovative and rapidly expanding community of businesses that want to make money and make a difference.

WORKERS, MANAGERS, PRODUCTIVITY

KAIZEN IN DEVELOPING COUNTRIES

Springer Nature This open access book provides a glimpse into the Japanese management technique known as “Kaizen,” and the ways it has been disseminated around the developing world. The novelty of this book is three-fold: it provides a contextualized view of the mechanisms of initiatives implementing Kaizen in developing countries; compared with productivity studies, it places the relationship between workers and managers at the center of inquiry, reflecting the intent of SDG8 concerning decent work and economic growth; and it provides an overview of the heterogeneity of Kaizen in terms of geography and firm size. This book explores how improving management techniques can support firms’ productivity and quality. Given its wide range of case studies from across Africa, Asia and Latin America, this book will be of value to scholars, policymakers and advocates of sustainable development alike.

OPENING UP EDUCATION

THE COLLECTIVE ADVANCEMENT OF EDUCATION THROUGH OPEN TECHNOLOGY, OPEN CONTENT, AND OPEN KNOWLEDGE

MIT Press Online version of MIT Press book has brief overview of book's content and provides links to open access PDF version of ebook, as well as an iPaper version and a link to the MIT Press store for buying the print version. In this collection of essays the authors who are leaders in open education, explore the potential of open education to transform the economics and ecology of education. The authors argue that we must develop not only the technical capability but also the intellectual capacity for transforming tacit pedagogical knowledge into commonly usable and visible knowledge by providing incentives for faculty to use (and contribute to) open education goods, and by looking beyond institutional boundaries to connect a variety of settings and open source entrepreneurs.

THE RATIONAL UNIFIED PROCESS

AN INTRODUCTION

Addison-Wesley Professional The second edition of this text brings the content up to date and in compliance with Rational unified Process 2000. It defines the process, putting it into a proper software development context, reviewing the RUPS history and providing detailed coverage of its structure.

CONFLICTING CONCEPTIONS OF CURRICULUM

THE EDUCATION SYSTEM IN MEXICO

UCL Press Over the last three decades, a significant amount of research has sought to relate educational institutions, policies, practices and reforms to social structures and agencies. A number of models have been developed that have become the basis for attempting to understand the complex relation between education and society. At the same time, national and international bodies tasked with improving educational performances seem to be writing in a void, in that there is no rigorous theory guiding their work, and their documents exhibit few references to groups, institutions and forces that can impede or promote their programmes and projects. As a result, the recommendations these bodies provide to their clients display little to no comprehension of how and under what conditions the recommendations can be put into effect. The Education System in Mexico directly addresses this problem. By combining abstract insights with the practicalities of educational reforms, policies, practices and their social antecedents, it offers a long overdue reflection of the history, effects and significance of the Mexican educational system, as well as presenting a more cogent understanding of the relationship between educational institutions and social forces in Mexico and around the world.

THE CHALLENGE OF CHANCE

A MULTIDISCIPLINARY APPROACH FROM SCIENCE AND THE HUMANITIES

Springer This book presents a multidisciplinary perspective on chance, with contributions from distinguished researchers in the areas of biology, cognitive neuroscience, economics, genetics, general history, law, linguistics, logic, mathematical physics, statistics, theology and philosophy. The individual chapters are bound together by a general introduction followed by an opening chapter that surveys 2500 years of linguistic, philosophical, and scientific reflections on chance, coincidence, fortune, randomness, luck and related concepts. A main conclusion that can be drawn is that, even after all this time, we still cannot be sure whether chance is a truly fundamental and irreducible phenomenon, in that certain events are simply uncaused and could have been otherwise, or whether it is always simply a reflection of our ignorance. Other challenges that emerge from this book include a better understanding of the contextuality and perspectival character of chance (including its scale-dependence), and the curious fact that, throughout history (including contemporary science), chance has been used both as an explanation and as a hallmark of the absence of explanation. As such, this book challenges the reader to think about chance in a new way and to come to grips with this endlessly fascinating phenomenon.

ECONOMY, BUSINESS AND UNCERTAINTY: NEW IDEAS FOR A EURO-MEDITERRANEAN INDUSTRIAL POLICY

Springer This book presents original research articles addressing various aspects of economics, management and optimization. The topics discussed include economics, finance, marketing, resource allocation strategies, fuzzy logic, and network-based techniques for the analysis of economics, management and mathematical optimization. Combining the input of contributing professors and researchers from various Spanish, Italian and Latin American universities, the book will be of interest to students, researchers and practitioners, as well as members of the general public interested in the world of Economics and Management.

PROGRESS ON DIFFERENCE EQUATIONS AND DISCRETE DYNAMICAL SYSTEMS

25TH ICDEA, LONDON, UK, JUNE 24-28, 2019

Springer Nature This book comprises selected papers of the 25th International Conference on Difference Equations and Applications, ICDEA 2019, held at UCL, London, UK, in June 2019. The volume details the latest research on difference equations and discrete dynamical systems, and their application to areas such as biology, economics, and the social

sciences. Some chapters have a tutorial style and cover the history and more recent developments for a particular topic, such as chaos, bifurcation theory, monotone dynamics, and global stability. Other chapters cover the latest personal research contributions of the author(s) in their particular area of expertise and range from the more technical articles on abstract systems to those that discuss the application of difference equations to real-world problems. The book is of interest to both Ph.D. students and researchers alike who wish to keep abreast of the latest developments in difference equations and discrete dynamical systems.

RESEARCH IN INTELLIGENT AND COMPUTING IN ENGINEERING

SELECT PROCEEDINGS OF RICE 2020

Springer Nature This book comprises select peer-reviewed proceedings of the international conference on Research in Intelligent and Computing in Engineering (RICE 2020) held at Thu Dau Mot University, Vietnam. The volume primarily focuses on latest research and advances in various computing models such as centralized, distributed, cluster, grid, and cloud computing. Practical examples and real-life applications of wireless sensor networks, mobile ad hoc networks, and internet of things, data mining and machine learning are also covered in the book. The contents aim to enable researchers and professionals to tackle the rapidly growing needs of network applications and the various complexities associated with them.

MODELLING, SIMULATION AND APPLICATIONS OF COMPLEX SYSTEMS

COSMOS 2019, PENANG, MALAYSIA, APRIL 8-11, 2019

Springer Nature This book discusses the latest progresses and developments on complex systems research and intends to give an exposure to prospective readers about the theoretical and practical aspects of mathematical modelling, numerical simulation and agent-based modelling frameworks. The main purpose of this book is to emphasize a unified approach to complex systems analysis, which goes beyond to examine complicated phenomena of numerous real-life systems; this is done by investigating a huge number of components that interact with each other at different (microscopic and macroscopic) scales; new insights and emergent collective behaviours can evolve from the interactions between individual components and also with their environments. These tools and concepts permit us to better understand the patterns of various real-life systems and help us to comprehend the mechanisms behind which distinct factors shaping some complex systems phenomena being influenced. This book is published in conjunction with the International Workshop on Complex Systems Modelling & Simulation 2019 (CoSMoS 2019): IoT & Big Data Integration. This international event was held at the Universiti Sains Malaysia Main Campus, Penang, Malaysia, from 8 to 11 April 2019. This book appeals to readers interested in complex systems

research and other related areas such as mathematical modelling, numerical simulation and agent-based modelling frameworks. .

THE LEARNING INDUSTRY

EDUCATION FOR ADULT WORKERS

Princeton University Press This study focuses on the connection between education and the world of work and the urgency of the endeavor to educate the work force. Part I considers the resources for adult learning in the United States, with a focus on the major providers outside the traditional education system. Technological resources that can extend educational opportunities and reach more workers are then analyzed. Examples of each medium's use are given, and its limitations and effectiveness for instruction are charted. One new development is given special attention: artificial intelligence as an aid in training and education. Part II describes workers' training opportunities. It looks first at the skilled trades and technical fields: construction workers, office workers, administrative assistants, information systems technicians, and factory workers encountering computer-integrated manufacturing systems. Next, the education of managers is considered. Finally, updating knowledge of advanced professionals is examined. Examples from various providers show contributions toward available opportunities. Part III deals with those whom training programs fail to reach or serve adequately: dislocated workers, unemployed youth, immigrants and refugees, and welfare recipients. The report concludes that the issues call for public responsibility and action. Federal, state, and private initiatives are urged. Endnotes for each chapter and an index are appended. (YLB)

14TH CONFERENCE ON SOFTWARE ENGINEERING EDUCATION AND TRAINING

PROCEEDINGS : IN SEARCH OF A SOFTWARE ENGINEERING PROFESSION : 19-21 FEBRUARY, CHARLOTTE, NORTH CAROLINA

RIVER, COASTAL AND ESTUARINE MORPHODYNAMICS

Springer Science & Business Media

TEACHING STRATEGIES: A GUIDE TO EFFECTIVE INSTRUCTION

Cengage Learning **TEACHING STRATEGIES: A GUIDE TO EFFECTIVE INSTRUCTION**, now in its tenth edition, is known for its practical, applied help with commonly used classroom teaching strategies and tactics. Ideal for anyone studying education or involved in a site-based teacher education program, the book focuses on topics such as lesson planning, questioning, and small-group and cooperative-learning strategies. The new edition maintains the book's solid coverage, while incorporating new and expanded material on INTASC standards, a new chapter on teaching in the

inclusive classroom, and an up-to-date discussion of assessment as it relates to inclusion. The text continues to be supported by a rich media package anchored by TeachSource Video Cases, which bring text content to life in actual classroom situations. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

THAT LITTLE VOICE IN YOUR HEAD: ADJUST THE CODE THAT RUNS YOUR BRAIN

Boxtree That Little Voice in Your Head is the practical application of Solve for Happy. In this guide, Mo reveals how we can achieve personal happiness through optimizing our thinking, turning our greed into generosity, our apathy into compassion, and investing in our own happiness. This book expands on Mo's theories and provides readers with exercises to help reshape their mental processes. Drawing on his expertise in programming, his extensive study of neuroscience and of different spiritual teachings, Mo explains how - despite their incredible complexity - our brains behave in ways that are largely predictable. From these insights, he delivers this user manual for personal happiness. Inspired by the life of his late son, Ali, Mo Gawdat has set out to share a model for happiness based on generosity and peacefulness towards ourselves and others. Using his experience as a former Google executive, this book reveals part of his 'code' for reprogramming our brain and moving away from the misconceptions modern life gives us.

THE RATIONAL UNIFIED PROCESS MADE EASY

A PRACTITIONER'S GUIDE TO THE RUP

Addison-Wesley Professional The authors explain the underlying software development principles behind theRUP, and guide readers in its application in their organization.

SUSTAINABLE RICE STRAW MANAGEMENT

Springer Nature This open access book on straw management aims to provide a wide array of options for rice straw management that are potentially more sustainable, environmental, and profitable compared to current practice. The book is authored by expert researchers, engineers and innovators working on a range of straw management options with case studies from Vietnam, the Philippines and Cambodia. The book is written for engineers and researchers in order to provide them information on current good practice and the gaps and constraints that require further research and innovation. The book is also aimed at extension workers and farmers to help them decide on the best alternative straw management options in their area by presenting both the technological options as well as the value chains and business models required to make them work. The

book will also be useful for policy makers, required by public opinion to reduce greenhouse gas emissions and air pollution, looking for research-based evidence to guide the policies they develop and implement.

ZOOBOTIC DISEASES AND ONE HEALTH

MDPI Humans are part of an ecosystem, and understanding our relationship with the environment and with other organisms is a prerequisite to living together sustainably. Zoonotic diseases, which are spread between animals and humans, are an important issue as they reflect our relationship with other animals in a common environment. Zoonoses are still presented with high occurrence rates, especially in rural communities, with direct and indirect consequences for people. In several cases, zoonosis could cause severe clinical manifestations and is difficult to control and treat. Moreover, the persistent use of drugs for infection control enhances the potential of drug resistance and impacts on ecosystem balance and food production. This book demonstrates the importance of understanding zoonosis in terms of how it allows ecosystems to transform, adapt, and evolve. Ecohealth/One Health approaches recognize the interconnections among people, other organisms, and their shared developing environment. Moreover, these holistic approaches encourage stakeholders of various disciplines to collaborate in order to solve problems related to zoonosis. The reality of climate change necessitates considering new variables in studying diseases, particularly to predict how these changes in the ecosystems can affect human health and how to recognize the boundaries between medicine, veterinary care, and environmental and social changes towards healthy and sustainable development.

THE SENECA EFFECT

WHY GROWTH IS SLOW BUT COLLAPSE IS RAPID

Springer The essence of this book can be found in a line written by the ancient Roman Stoic Philosopher Lucius Annaeus Seneca: "Fortune is of sluggish growth, but ruin is rapid". This sentence summarizes the features of the phenomenon that we call "collapse," which is typically sudden and often unexpected, like the proverbial "house of cards." But why are such collapses so common, and what generates them? Several books have been published on the subject, including the well known "Collapse" by Jared Diamond (2005), "The collapse of complex societies" by Joseph Tainter (1998) and "The Tipping Point," by Malcom Gladwell (2000). Why The Seneca Effect? This book is an ambitious attempt to pull these various strands together by describing collapse from a multi-disciplinary viewpoint. The reader will discover how collapse is a collective phenomenon that occurs in what we call today "complex systems," with a special emphasis on system dynamics and the concept of "feedback." From

this foundation, Bardi applies the theory to real-world systems, from the mechanics of fracture and the collapse of large structures to financial collapses, famines and population collapses, the fall of entire civilizations, and the most dreadful collapse we can imagine: that of the planetary ecosystem generated by overexploitation and climate change. The final objective of the book is to describe a conclusion that the ancient stoic philosophers had already discovered long ago, but that modern system science has rediscovered today. If you want to avoid collapse you need to embrace change, not fight it. Neither a book about doom and gloom nor a cornucopianist's dream, *The Seneca Effect* goes to the heart of the challenges that we are facing today, helping us to manage our future rather than be managed by it.

ADVANCES IN HUMAN FACTORS AND ERGONOMICS IN HEALTHCARE AND MEDICAL DEVICES

PROCEEDINGS OF THE AHFE 2021 VIRTUAL CONFERENCE ON HUMAN FACTORS AND ERGONOMICS IN HEALTHCARE AND MEDICAL DEVICES, JULY 25-29, 2021, USA

Springer This book is concerned with human factors and ergonomics research and developments in the design and use of systems and devices for effective and safe healthcare delivery. It reports on approaches for improving healthcare devices so that they better fit to people's, including special population's needs. It also covers assistive devices aimed at reducing occupational risks of health professionals as well as innovative strategies for error reduction, and more effective training and education methods for healthcare workers and professionals. Equal emphasis is given to digital technologies and to physical, cognitive and organizational aspects, which are considered in an integrated manner, so as to facilitate a systemic approach for improving the quality and safety of healthcare service. The book also includes a special section dedicated to innovative strategies for assisting caregivers', patients', and people's needs during pandemic. Based on papers presented at the AHFE 2021 Conference on Human Factors and Ergonomics in Healthcare and Medical Devices, held virtually on 25-29 July, 2021, from USA, the book offers a timely reference guide to both researchers and healthcare professionals involved in the design of medical systems and managing healthcare settings, as well as to healthcare counselors and global health organizations.

THE ETHICS OF SCIENTIFIC RESEARCH

A GUIDEBOOK FOR COURSE DEVELOPMENT

RAPID INSTRUCTIONAL DESIGN

LEARNING ID FAST AND RIGHT

John Wiley & Sons The classic guide to instructional design, fully updated for the new ways we learn **Rapid Instructional Design** is the industry standard guide to creating effective instructional materials, providing no-nonsense practicality rather than theory-driven text. Beginning with a look at what "instructional design" really means, readers are guided step-by-step through the ADDIE model to explore techniques for analysis, design, development, intervention, and evaluation. This new third edition has been updated to cover new applications, technologies, and concepts, and includes many new templates, real-life examples, and additional instructor materials. Instruction delivery has expanded rapidly in the nine years since the second edition's publication, and this update covers all the major advances in the field. The major instructional models are expanded to apply to e-learning, MOOCs, mobile learning, and social network-based learning. Informal learning and communities of practice are examined, as well. Instructional design is the systematic process by which instructional materials are designed, developed, and delivered. Designers must determine the learner's current state and needs, define the end goals of the instruction, and create an intervention to assist in the transition. This book is a complete guide to the process, helping readers design efficient, effective materials. Learn the ins and outs of the ADDIE model Discover shortcuts for rapid design Design for e-learning, Millennials, and MOOCs Investigate methods for emerging avenues of instruction This book does exactly what a well-designed course should do, providing relevant guidance for anyone who wants to know how to apply good instructional design. Eminently practical and fully up-to-date, **Rapid Instructional Design** is the one-stop guide to more effective instruction.

ADVANCES IN ERGONOMICS IN DESIGN

PROCEEDINGS OF THE AHFE 2020 VIRTUAL CONFERENCE ON ERGONOMICS IN DESIGN, JULY 16-20, 2020, USA

Springer Nature This book provides readers with a timely snapshot of ergonomics research and methods applied to the design, development and prototyping—as well as the evaluation, training and manufacturing—of products, systems and services. Combining theoretical contributions, case studies and reports on technical interventions, it covers a wide range of topics in ergonomic design including ecological design; cultural and ethical aspects in design; interface design, user involvement and human-computer interaction in design; as well as design for accessibility and many others. The book particularly focuses on new technologies such as virtual reality, state-of-the-art methodologies in information design, and human-computer interfaces. Based on the AHFE 2020 Virtual Conference on Ergonomics in Design, held on July 10-16, 2020, the book offers a timely guide for both researchers and design practitioners, including industrial designers,

human-computer interaction and user experience researchers, production engineers and applied psychologists.

SOFTWARE ENGINEERING

John Wiley & Sons Incorporated This one-semester undergraduate course introduces software engineering. A detailed guide to processes and products, this new text provides all the essential information needed to develop software engineering skills. The book offers in-depth coverage of all fundamental topics and includes follow-up projects in an appendix for hands-on application. Each chapter is followed by a variety of open-ended problems that afford maximum flexibility in course use and encourage students to exhibit originality and judgment. An instructor's manual contains solutions to some of the problems, as well as suggested examinations and course schedules. There is also an extensive and easily accessible bibliography that provides opportunities for further study.