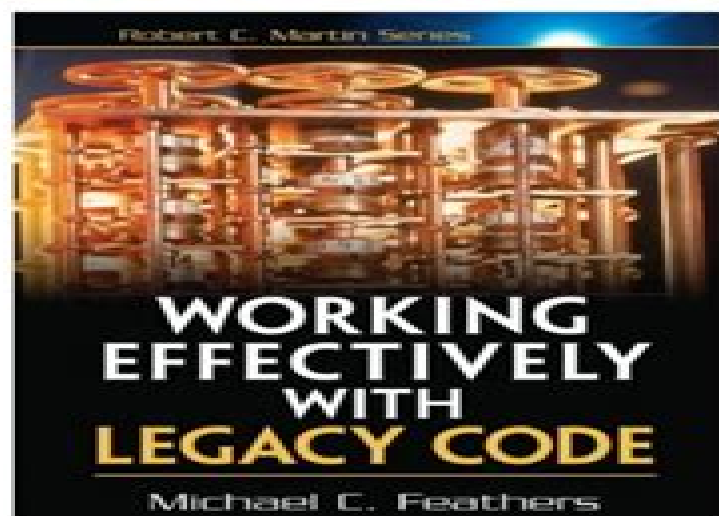# Working Effectively with Legacy Code: WORK EFFECT LEG CODE _p1 (Robert C. Martin Series)

Robert C. Martin Series

WORKING EFFECTIVELY WITH LEGACY CODE

Michael C. Feathers

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Working Effectively With Legacy Code Robert C Martin Series:

Working Effectively with Legacy Code Michael Feathers,2004-09-22 Get more out of your legacy systems more performance functionality reliability and manageability Is your code easy to change Can you get nearly instantaneous feedback when you do change it Do you understand it If the answer to any of these questions is no you have legacy code and it is draining time and money away from your development efforts In this book Michael Feathers offers start to finish strategies for working more effectively with large untested legacy code bases This book draws on material Michael created for his renowned Object Mentor seminars techniques Michael has used in mentoring to help hundreds of developers technical managers and testers bring their legacy systems under control The topics covered include Understanding the mechanics of software change adding features fixing bugs improving design optimizing performance Getting legacy code into a test harness Writing tests that protect you against introducing new problems Techniques that can be used with any language or platform with examples in Java C C and C Accurately identifying where code changes need to be made Coping with legacy systems that aren t object oriented Handling applications that don t seem to have any structure This book also includes a catalog of twenty four dependency breaking techniques that help you work with program elements in isolation and make safer changes **Effektives Arbeiten mit Legacy Code** Michael C. Feathers,2023-11-03 K nnen Sie Ihren Code leicht ndern K nnen Sie fast unmittelbar Feedback bekommen wenn Sie ihn ndern Verstehen Sie ihn Wenn Sie eine dieser Fragen mit nein beantworten arbeiten Sie mit Legacy Code der Geld und wertvolle Entwicklungszeit kostet Michael Feathers erl utert in diesem Buch Strategien f r den gesamten Entwicklungsprozess um effizient mit gro en ungetesteten Code Basen zu arbeiten Dabei greift er auf erprobtes Material zur ck das er f r seine angesehenen Object Mentor Seminare entwickelt hat Damit hat er bereits zahlreichen Entwicklern technischen Managern und Testern geholfen ihre Legacy Systeme unter Kontrolle zu bringen Dar ber hinaus finden Sie auch einen Katalog mit 24 Techniken zur Aufhebung von Dependencies die Ihnen zeigen wie Sie isoliert mit Programmelementen arbeiten und Code sicherer ndern k nnen **Clean Code** Robert C. Martin,2008-08-01 Even bad code can function But if code isn t clean it can bring a development organization to its knees Every year countless hours and significant resources are lost because of poorly written code But it doesn t have to be that way Noted software expert Robert C Martin presents a revolutionary paradigm with Clean Code A Handbook of Agile Software Craftsmanship Martin has teamed up with his colleagues from Object Mentor to distill their best agile practice of cleaning code on the fly into a book that will instill within you the values of a software craftsman and make you a better programmer but only if you work at it What kind of work will you be doing You ll be reading code lots of code And you will be challenged to think about what s right about that code and what s wrong with it More importantly you will be challenged to reassess your professional values and your commitment to your craft Clean Code is divided into three parts The first describes the principles patterns and practices of writing clean code The second part consists of several case studies of

increasing complexity Each case study is an exercise in cleaning up code of transforming a code base that has some problems into one that is sound and efficient The third part is the payoff a single chapter containing a list of heuristics and smells gathered while creating the case studies The result is a knowledge base that describes the way we think when we write read and clean code Readers will come away from this book understanding How to tell the difference between good and bad code How to write good code and how to transform bad code into good code How to create good names good functions good objects and good classes How to format code for maximum readability How to implement complete error handling without obscuring code logic How to unit test and practice test driven development This book is a must for any developer software engineer project manager team lead or systems analyst with an interest in producing better code **Computing with Data** Guy Lebanon,Mohamed El-Geish,2018-11-28 This book introduces basic computing skills designed for industry professionals without a strong computer science background Written in an easily accessible manner and accompanied by a user friendly website it serves as a self study guide to survey data science and data engineering for those who aspire to start a computing career or expand on their current roles in areas such as applied statistics big data machine learning data mining and informatics The authors draw from their combined experience working at software and social network companies on big data products at several major online retailers as well as their experience building big data systems for an AI startup Spanning from the basic inner workings of a computer to advanced data manipulation techniques this book opens doors for readers to quickly explore and enhance their computing knowledge Computing with Data comprises a wide range of computational topics essential for data scientists analysts and engineers providing them with the necessary tools to be successful in any role that involves computing with data The introduction is self contained and chapters progress from basic hardware concepts to operating systems programming languages graphing and processing data testing and programming tools big data frameworks and cloud computing The book is fashioned with several audiences in mind Readers without a strong educational background in CS or those who need a refresher will find the chapters on hardware operating systems and programming languages particularly useful Readers with a strong educational background in CS but without significant industry background will find the following chapters especially beneficial learning R testing programming visualizing and processing data in Python and R system design for big data data stores and software craftsmanship **Agile Java¿** Jeff Langr,2005-02-14 Master Java 5 0 and TDD Together Build More Robust Professional Software Master Java 5 0 object oriented design and Test Driven Development TDD by learning them together Agile Java weaves all three into a single coherent approach to building professional robust software systems Jeff Langr shows exactly how Java and TDD integrate throughout the entire development lifecycle helping you leverage today s fastest most efficient development techniques from the very outset Langr writes for every programmer even those with little or no experience with Java object oriented development or agile methods He shows how to translate oral requirements into practical tests and then how to use those

tests to create reliable high performance Java code that solves real problems Agile Java doesn t just teach the core features of the Java language it presents coded test examples for each of them This TDD centered approach doesn t just lead to better code it provides powerful feedback that will help you learn Java far more rapidly The use of TDD as a learning mechanism is a landmark departure from conventional teaching techniques Presents an expert overview of TDD and agile programming techniques from the Java developer s perspective Brings together practical best practices for Java TDD and OO design Walks through setting up Java 5 0 and writing your first program Covers all the basics including strings packages and more Simplifies object oriented concepts including classes interfaces polymorphism and inheritance Contains detailed chapters on exceptions and logging math I O reflection multithreading and Swing Offers seamlessly integrated explanations of Java 5 0 s key innovations from generics to annotations Shows how TDD impacts system design and vice versa Complements any agile or traditional methodology including Extreme Programming XP **Resilient Infrastructure** Sreevalsa Kolathayar,Chandan Ghosh,Basanta Raj Adhikari,Indrajit Pal,Arpita Mondal,2021-10-28 This book presents the select proceedings of the Virtual Conference on Disaster Risk Reduction VCDRR 2021 This book discusses various relevant topics such as Disaster resilience and Infrastructure Risk reduction and structural measures Evidence based approach for DRR Case studies Numerical modelling and Constructions methods Prevention Methods and Safety Engineering Cross cutting issue in DRR and Infrastructure etc The book is also a comprehensive volume on multi hazards and their management for a sustainable built environment This book will be useful for academicians research scholars and industry professionals working in the area of civil engineering and disaster management **The Robert C. Martin Clean Code Collection (Collection)** Robert C. Martin,2011-11-10 The Robert C Martin Clean Code Collection consists of two bestselling eBooks Clean Code A Handbook of Agile Software Craftmanship The Clean Coder A Code of Conduct for Professional Programmers In Clean Code legendary software expert Robert C Martin has teamed up with his colleagues from Object Mentor to distill their best agile practice of cleaning code on the fly into a book that will instill within you the values of a software craftsman and make you a better programmer but only if you work at it You will be challenged to think about what s right about that code and what s wrong with it More important you will be challenged to reassess your professional values and your commitment to your craft In The Clean Coder Martin introduces the disciplines techniques tools and practices of true software craftsmanship This book is packed with practical advice about everything from estimating and coding to refactoring and testing It covers much more than technique It is about attitude Martin shows how to approach software development with honor self respect and pride work well and work clean communicate and estimate faithfully face difficult decisions with clarity and honesty and understand that deep knowledge comes with a responsibility to act Readers of this collection will come away understanding How to tell the difference between good and bad code How to write good code and how to transform bad code into good code How to create good names good functions good objects and good classes How to format code for maximum readability How

to implement complete error handling without obscuring code logic How to unit test and practice test driven development What it means to behave as a true software craftsman How to deal with conflict tight schedules and unreasonable managers How to get into the flow of coding and get past writer s block How to handle unrelenting pressure and avoid burnout How to combine enduring attitudes with new development paradigms How to manage your time and avoid blind alleys marshes bogs and swamps How to foster environments where programmers and teams can thrive When to say No and how to say it When to say Yes and what yes really means   **Clean Code - Refactoring, Patterns, Testen und Techniken für sauberen Code** Robert C. Martin,2013-12-18 h2 Kommentare Formatierung Strukturierung Fehler Handling und Unit Tests Zahlreiche Fallstudien Best Practices Heuristiken und Code Smells Clean Code Refactoring Patterns Testen und Techniken f r sauberen Code Aus dem Inhalt Lernen Sie guten Code von schlechtem zu unterscheiden Sauberen Code schreiben und schlechten Code in guten umwandeln Aussagekr ftige Namen sowie gute Funktionen Objekte und Klassen erstellen Code so formatieren strukturieren und kommentieren dass er bestm glich lesbar ist Ein vollst ndiges Fehler Handling implementieren ohne die Logik des Codes zu verschleiern Unit Tests schreiben und Ihren Code testgesteuert entwickeln Selbst schlechter Code kann funktionieren Aber wenn der Code nicht sauber ist kann er ein Entwicklungsunternehmen in die Knie zwingen Jedes Jahr gehen unz hlige Stunden und betr chtliche Ressourcen verloren weil Code schlecht geschrieben ist Aber das muss nicht sein Mit Clean Code pr sentiert Ihnen der bekannte Software Experte Robert C Martin ein revolution res Paradigma mit dem er Ihnen aufzeigt wie Sie guten Code schreiben und schlechten Code berarbeiten Zusammen mit seinen Kollegen von Object Mentor destilliert er die besten Praktiken der agilen Entwicklung von sauberem Code zu einem einzigartigen Buch So k nnen Sie sich die Erfahrungswerte der Meister der Software Entwicklung aneignen die aus Ihnen einen besseren Programmierer machen werden anhand konkreter Fallstudien die im Buch detailliert durchgearbeitet werden Sie werden in diesem Buch sehr viel Code lesen Und Sie werden aufgefordert dar ber nachzudenken was an diesem Code richtig und falsch ist Noch wichtiger Sie werden herausgefordert Ihre professionellen Werte und Ihre Einstellung zu Ihrem Beruf zu berpr fen Clean Code besteht aus drei Teilen Der erste Teil beschreibt die Prinzipien Patterns und Techniken die zum Schreiben von sauberem Code ben tigt werden Der zweite Teil besteht aus mehreren zunehmend komplexeren Fallstudien An jeder Fallstudie wird aufgezeigt wie Code ges ubert wird wie eine mit Problemen behaftete Code Basis in eine solide und effiziente Form umgewandelt wird Der dritte Teil enth lt den Ertrag und den Lohn der praktischen Arbeit ein umfangreiches Kapitel mit Best Practices Heuristiken und Code Smells die bei der Erstellung der Fallstudien zusammengetragen wurden Das Ergebnis ist eine Wissensbasis die beschreibt wie wir denken wenn wir Code schreiben lesen und s ubern Dieses Buch ist ein Muss f r alle Entwickler Software Ingenieure Projektmanager Team Leiter oder Systemanalytiker die daran interessiert sind besseren Code zu produzieren ber den Autor Robert C Uncle Bob Martin entwickelt seit 1970 professionell Software Seit 1990 arbeitet er international als Software Berater Er ist Gr nder und Vorsitzender von Object Mentor Inc einem Team

erfahrener Berater die Kunden auf der ganzen Welt bei der Programmierung in und mit C Java C Ruby OO Design Patterns UML sowie Agilen Methoden und eXtreme Programming helfen **Software Engineering Made Easy** Marco Gähler,2025-07-04 Learn how to write good code for humans This user friendly book is a comprehensive guide to writing clear and bug free code It integrates established programming principles and outlines expert driven rules to prevent you from over complicating your code You ll take a practical approach to programming applicable to any programming language and explore useful advice and concrete examples in a concise and compact form Sections on Single Responsibility Principle naming levels of abstraction testing logic if else interfaces and more reinforce how to effectively write low complexity code While many of the principles addressed in this book are well established it offers you a single resource Software Engineering Made Easy modernizes classic software programming principles with quick tips relevant to real world applications Most importantly it is written with a keen awareness of how humans think The end result is human readable code that improves maintenance collaboration and debugging critical for software engineers working together to make purposeful impacts in the world What You Will Learn Understand the essence of software engineering Simplify your code using expert techniques across multiple languages See how to structure classes Manage the complexity of your code by using level abstractions Review test functions and explore various types of testing Who This Book Is For Intermediate programmers who have a basic understanding of coding but are relatively new to the workforce Applicable to any programming language but proficiency in C or Python is preferred Advanced programmers may also benefit from learning how to deprogram bad habits and de complicate their code The Coding Dojo Handbook Emily Bache,2013-10 This handbook is a collection of concrete ideas for how you can get started with a Coding Dojo where a group of programmers can focus on improving their practical coding skills **The Software Craftsman** Sandro Mancuso,2014-12-12 Be a Better Developer and Deliver Better Code Despite advanced tools and methodologies software projects continue to fail Why Too many organizations still view software development as just another production line Too many developers feel that way too and they behave accordingly In The Software Craftsman Professionalism Pragmatism Pride Sandro Mancuso offers a better and more fulfilling path If you want to develop software with pride and professionalism love what you do and do it with excellence and build a career with autonomy mastery and purpose it starts with the recognition that you are a craftsman Once you embrace this powerful mindset you can achieve unprecedented levels of technical excellence and customer satisfaction Mancuso helped found the world s largest organization of software craftsmen now he shares what he s learned through inspiring examples and pragmatic advice you can use in your company your projects and your career You will learn Why agile processes aren t enough and why craftsmanship is crucial to making them work How craftsmanship helps you build software right and helps clients in ways that go beyond code How and when to say No and how to provide creative alternatives when you do Why bad code happens to good developers and how to stop creating and justifying it How to make working with legacy code less painful and more

productive How to be pragmatic not dogmatic about your practices and tools How to lead software craftsmen and attract them to your organization What to avoid when advertising positions interviewing candidates and hiring developers How developers and their managers can create a true culture of learning How to drive true technical change and overcome deep patterns of skepticism Sandro Mancuso has coded for startups software houses product companies international consultancies and investment banks In October 2013 he cofounded Codurance a consultancy based on Software Craftsmanship principles and values His involvement with Software Craftsmanship began in 2010 when he founded the London Software Craftsmanship Community LSCC now the world s largest and most active Software Craftsmanship community with more than two thousand craftsmen For the past four years he has inspired and helped developers to organize Software Craftsmanship communities throughout Europe the United States and the rest of the world **Coder proprement** Robert C. Martin,2009 **Qualität in IT-Architekturen** Mirko Schrempp,2012-01-18 Qualit t von IT Architekturen ist heute so wichtig wie in der Vergangenheit Es ist jedoch ungleich schwieriger geworden sie zu erreichen In der schnelllebigen IT Industrie ist der Anspruch Qualit t zu schaffen vorhanden aber die Herausforderungen sind eigentlich nur noch im internationalen Zusammenspiel zu meistern Es steigt die Anzahl der Rahmenrichtlinien Normen und internationalen Standards Aber auch Service Level Agreements gelten inzwischen weltweit und die Gremien der Hersteller wachsen Allein die Koordination dieser Aspekte ist eine immense Aufgabe f r das Qualit tsmanagement Dieser shortcut entstand in Kooperation mit dem Business Technology Magazin und befasst sich mit strategischen Perspektiven auf das Qualit tsmanagement Der Text startet mit Wolfgang Boelmanns Blick auf die bekanntesten Mythen die sich rund um QM ranken Uwe Friedrichsen zeigt wie man das Spannungsfeld der Erwartungen zwischen Management und Architekten ausbalanciert und so zu Synergieeffekten gelangt Qualit t ist systematisierbar Gernot Starke zeigt Ihnen wie Sie die Weichen stellen f r performante benutzerfreundliche und kosteneffiziente Softwareentwicklung Im vierten Kapitel lenkt Nils Wloka noch einmal den Blick auf den wichtigsten Bestandteil gelungener Architekturen der im QM Dschungel manchmal vergessen wird Programmcode *Scrum: гибкая разработка ПО* Майк Кон,2019-11-27 Scrum Scrum Scrum Scrum Scrum Scrum Scrum Scrum **Effective Computation in Physics** Anthony Scopatz,Kathryn D. Huff,2015-06-25 More physicists today are taking on the role of software developer as part of their research but software development isn t always easy or obvious even for physicists This practical book teaches essential software development skills to help you automate and accomplish nearly any aspect of research in a physics based field Written by two PhDs in nuclear engineering this book includes practical examples drawn from a working knowledge of physics concepts You ll learn how to use the Python programming language to perform everything from collecting and analyzing data to building software and publishing your results In four parts this book includes Getting Started Jump into Python the command line data containers functions flow control and logic and classes and objects Getting It Done Learn about regular expressions analysis and visualization NumPy storing data in files

and HDF5 important data structures in physics computing in parallel and deploying software Getting It Right Build pipelines and software learn to use local and remote version control and debug and test your code Getting It Out There Document your code process and publish your findings and collaborate efficiently dive into software licenses ownership and copyright procedures **Microservices** Antonio Bucchiarone,Nicola Dragoni,Schahram Dustdar,Patricia Lago,Manuel Mazzara,Victor Rivera,Andrey Sadovykh,2019-12-11 This book describes in contributions by scientists and practitioners the development of scientific concepts technologies engineering techniques and tools for a service based society The focus is on microservices i e cohesive independent processes deployed in isolation and equipped with dedicated memory persistence tools which interact via messages The book is structured in six parts Part 1 Opening analyzes the new and old challenges including service design and specification data integrity and consistency management and provides the introductory information needed to successfully digest the remaining parts Part 2 Migration discusses the issue of migration from monoliths to microservices and their loosely coupled architecture Part 3 Modeling introduces a catalog and a taxonomy of the most common microservices anti patterns and identifies common problems It also explains the concept of RESTful conversations and presents insights from studying and developing two further modeling approaches Next Part 4 is dedicated to various aspects of Development and Deployment Part 5 then covers Applications of microservices presenting case studies from Industry 4 0 Netflix and customized SaaS examples Eventually Part 6 focuses on Education and reports on experiences made in special programs both at academic level as a master program course and for practitioners in an industrial training As only a joint effort between academia and industry can lead to the release of modern paradigm based programming languages and subsequently to the deployment of robust and scalable software systems the book mainly targets researchers in academia and industry who develop tools and applications for microservices **Mastering the Principles of 'Clean Code'** Diego Rodrigues,2025-01-26 In this practical and engaging guide Diego Rodrigues presents a clear and accessible version of the core principles from one of the most influential books on software development and programming best practices Mastering the Principles of Clean Code distills the central teachings of Robert C Martin s timeless work offering practical insights so that you can apply the concepts of clean code in your everyday development work Whether it s improving the readability maintainability or scalability of your code this book offers a hands on approach to mastering the best coding practices that can transform how you write software From adopting a mindset focused on simplicity to continuous code refactoring this guide ensures that the principles of Clean Code are not only understood but also applied effectively and tangibly Rodrigues explores each central concept of Clean Code in a didactic and accessible manner enriched with practical examples and valuable tips so you can begin implementing the principles right away This is the ideal companion for programmers and developers looking to improve their technical skills and achieve excellence in software development Don t settle for theoretical knowledge start applying the principles of Clean Code today and experience a transformation in the quality of

your code and your professional growth This book will help you go beyond good intentions and achieve tangible results through clarity discipline and best development practices TAGS Python Java Linux Kali HTML ASP NET Ada Assembly BASIC Borland Delphi C C C CSS Cobol Compilers DHTML Fortran General JavaScript LISP PHP Pascal Perl Prolog RPG Ruby SQL Swift UML Elixir Haskell VBScript Visual Basic XHTML XML XSL Django Flask Ruby on Rails Angular React Vue js Node js Laravel Spring Hibernate NET Core Express js TensorFlow PyTorch Jupyter Notebook Keras Bootstrap Foundation jQuery SASS LESS Scala Groovy MATLAB R Objective C Rust Go Kotlin TypeScript Dart SwiftUI Xamarin React Native NumPy Pandas SciPy Matplotlib Seaborn D3 js OpenCV NLTK PySpark BeautifulSoup Scikit learn XGBoost CatBoost LightGBM FastAPI Redis RabbitMQ Kubernetes Docker Jenkins Terraform Ansible Vagrant GitHub GitLab CircleCI Regression Logistic Regression Decision Trees Random Forests AI ML K Means Clustering Support Vector Machines Gradient Boosting Neural Networks LSTMs CNNs GANs ANDROID IOS MACOS WINDOWS Nmap Metasploit Framework Wireshark Aircrack ng John the Ripper Burp Suite SQLmap Maltego Autopsy Volatility IDA Pro OllyDbg YARA Snort ClamAV Netcat Tcpdump Foremost Cuckoo Sandbox Fierce HTTrack Kismet Hydra Nikto OpenVAS Nessus ZAP Radare2 Binwalk GDB OWASP Amass Dnsenum Dirbuster Wpscan Responder Setoolkit Searchsploit Recon ng BeEF AWS Google Cloud IBM Azure Databricks Nvidia Meta Power BI IoT CI CD Hadoop Spark Dask SQLAlchemy Web Scraping MySQL Big Data Science OpenAI ChatGPT Handler RunOnUiThread Qiskit Q Cassandra Bigtable VIRUS MALWARE Information Pen Test Cybersecurity Linux Distributions Ethical Hacking Vulnerability Analysis System Exploration Wireless Attacks Web Application Security Malware Analysis Social Engineering Social Engineering Toolkit SET Computer Science IT Professionals Careers Expertise Library Training Operating Systems Security Testing Penetration Test Cycle Mobile Techniques Industry Global Trends Tools Framework Network Security Courses Tutorials Challenges Landscape Cloud Threats Compliance Research Technology Flutter Ionic Web Views Capacitor APIs REST GraphQL Firebase Redux Provider Bitrise Actions Material Design Cupertino Fastlane Appium Selenium Jest Visual Studio AR VR sql mysql   Succeeding with Agile Mike Cohn,2010 Proven 100% Practical Guidance for Making Scrum and Agile Work in Any Organization This is the definitive realistic actionable guide to starting fast with Scrum and agile and then succeeding over the long haul Leading agile consultant and practitioner Mike Cohn presents detailed recommendations powerful tips and real world case studies drawn from his unparalleled experience helping hundreds of software organizations make Scrum and agile work Succeeding with Agile is for pragmatic software professionals who want real answers to the most difficult challenges they face in implementing Scrum Cohn covers every facet of the transition getting started helping individuals transition to new roles structuring teams scaling up working with a distributed team and finally implementing effective metrics and continuous improvement Throughout Cohn presents Things to Try Now sections based on his most successful advice Complementary Objection sections reproduce typical conversations with those resisting change and offer practical guidance for addressing their concerns Coverage includes Practical ways to

get started immediately and get good fast Overcoming individual resistance to the changes Scrum requires Staffing Scrum projects and building effective teams Establishing improvement communities of people who are passionate about driving change Choosing which agile technical practices to use or experiment with Leading self organizing teams Making the most of Scrum sprints planning and quality techniques Scaling Scrum to distributed multiteam projects Using Scrum on projects with complex sequential processes or challenging compliance and governance requirements Understanding Scrum s impact on HR facilities and project management Whether you ve completed a few sprints or multiple agile projects and whatever your role manager developer coach ScrumMaster product owner analyst team lead or project lead this book will help you succeed with your very next project Then it will help you go much further It will help you transform your entire development organization

Software Development ,2004   Computer Science – CACIC 2020 Patricia Pesado,Jorge Eterovic,2021-05-04 This book constitutes revised selected papers from the 26th Argentine Congress on Computer Science CACIC 2020 held in San Justo Buenos Aires Argentina in October 2020 Due to the COVID 19 pandemic the conference was held in a virtual mode The 21 full papers and 3 short papers presented in this volume were carefully reviewed and selected from a total of 118 submissions They were organized in topical sections named intelligent agents and systems distributed and parallel processing computer technology applied to education graphic computation images and visualization software engineering databases and data mining hardware architectures networks and operating systems innovation in software systems signal processing and real time systems innovation in computer science education computer security and digital governance and smart cities

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