



Sustainable Software Development

An Agile Perspective

Kevin Tate

Foreword by Jim Highsmith

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Requirements Engineering Toward Sustainable World Seok-Won Lee,Takako Nakatani,2016-11-07 This book constitutes the proceedings of the Third Asia Pacific Requirements Engineering Symposium APRES 2016 held in Nagoya Japan in November 2016 The 7 full papers presented together with three short papers were carefully reviewed and selected from 14 submissions The papers are organized in topical sections on requirements traceability and prioritization requirements modeling and process for quality requirements validation requirements analysis

Green Computing for Sustainable Development Niharika Singh,Thipendra P Singh,Amar Ramdane-Cherif,Ravi Tomar,Richa Choudhary,2025-06-30 Green computing is a revolutionary technique that addresses environmental sustainability It uses an eco friendly approach to the design manufacture and use of computing resources This is achieved by cutting down on electronic waste using renewable energy sources and consuming less energy Recyclable materials with minimal environmental impact software engineering techniques that are optimized and energy efficient hardware are examples of many approaches Advanced technologies such as low power processors smart grids and virtualized computing environments contribute to energy efficiency and waste reduction Furthermore integrating green computing with renewable energy sources amplifies its positive impact on the environment The adoption of green computing practices promotes a circular economy encourages resource conservation and supports climate action Green Computing for Sustainable Development features chapters that explore issues that are concerned with furthering sustainability and green computing Highlights include the following Neuro symbolic green computing combining neural networks learning abilities with symbolic AI s logical reasoning while promoting environmentally friendly practices Energy efficient data management resource provisioning and the importance of monitoring carbon footprints The intersection of green computing and wildlife conservation highlighting how energy efficient technologies can revolutionize conservation efforts The integration of geospatial information systems GIS and remote sensing RS as innovative solutions for sustainable development The role of information and communication technology ICT in promoting health and well being The importance of green computing due to growing environmental concerns related to information technology The integration of AI in sustainable farming practices The synergy between green computing practices and economic growth in achieving sustainable development The integration

of green computing with e waste management to tackle environmental challenges in the IT sector How the green Internet of Things IoT is transforming smart city development by integrating ecological awareness and sustainability into urban planning This book covers the wide range of principles essential for achieving long term sustainability It is a step toward fostering a balanced relationship between technological advancement and environmental stewardship **Sustainability Assessment**

at the 21st century María José Bastante-Ceca, Jose Luis Fuentes-Bargues, Levente Hufnagel, Florin-Constantin

Mihai, Corneliu Iatu, 2020-02-12 The sustainability of the human society is endangered by the global human ecological crisis which consists of many global problems that are closely related to each other In this phenomenon the global population explosion has a central role because more people have a larger ecological footprint a larger consumption more intensive pollution and a larger emission of carbon dioxide through their activities This book presents the current state of sustainability and intends to provide the reader with a critical perspective of how the 21st century societies must change their development model facing the new challenges internet of things industry 4 0 smart cities circular economy sustainable agriculture etc in order to achieve a more liveable world **AI and Green Innovation for Achieving Sustainable**

Development Goals Popescu, Cristina Raluca Gh., 2025-10-22 As the world continues to face environmental challenges there is an urgency for sustainable development with the integration of AI and green innovation they become a catalyst for change These technologies are not only reshaping industries but also offering transformative solutions to address the sustainable development goals of the world From optimizing renewable energy systems and reducing carbon footprints to enhancing resource efficiency and supporting climate smart agriculture AI green innovations are playing a pivotal role in accelerating global sustainability efforts This intersection of advanced technology and environmental stewardship represents a critical pathway toward a more resilient and sustainable future AI and Green Innovation for Achieving Sustainable Development Goals explores how AI can drive green innovation and accelerate progress toward sustainable development goals It examines practical applications challenges and opportunities where AI supports sustainable practices Covering topics such as sustainable development green innovation and AI this book is an excellent resource for academicians scientists researchers students PhD scholars and post doctoral students **Perspectives in Business Informatics Research** Václav Řepa, Tomáš

Bruckner, 2016-09-07 This book constitutes the proceedings of the 15th International Conference on Perspectives in Business Informatics Research BIR 2016 held in Prague Czech Republic in September 2016 Overall 61 submissions from 16 countries were rigorously reviewed by 42 members of the program committee representing 21 countries The selected 21 full papers and 3 short papers are included in this volume together with 2 abstracts of invited talks This year again the papers presented at the conference cover many important aspects of the development use and application of management information systems The papers have been organized in topical sections on Business Processes and Enterprise Modeling Information Systems Development Information Systems Management Learning and Capability and Data Analysis **Circular Economy**

Strategies and the UN Sustainable Development Goals Michael Odei Erdiaw-Kwasie,G. M. Monirul Alam,2023-08-21

This book provides novel perspectives to the ongoing global discussions on the UN Sustainable Development Goals SDGs Current knowledge on circular economy and the SDGs target in developing and emerging countries are mostly fragmented and empirical evidence is limited The approach taken in the book is unique as it presents holistic viewpoints about the synergies opportunities and challenges between circular economy and SDGs targets in developing and emerging countries The book presents diverse contents on the topic including literature reviews conceptual discussions case studies and empirical analysis Extreme Programming and Agile Processes in Software Engineering ,2005 **Software**

Sustainability Coral Calero, Ma Ángeles Moraga, Mario Piattini,2021-10-05 This book focuses on software sustainability regarded in terms of how software is or can be developed while taking into consideration environmental social and economic dimensions The sixteen chapters cover various related issues ranging from technical aspects like energy efficient programming techniques formal proposals related to energy efficiency measurement patterns to build energy efficient software the role of developers on energy efficient software systems and tools for detecting and refactoring code smells energy bugs to human aspects like its impact on software sustainability or the adaptation of ACM IEEE guidelines for student and professional education and an economics driven architectural evaluation for sustainability Also aspects as the elements of governance and management that organizations should consider when implementing assessing and improving Green IT or the relationship between software sustainability and the Corporate Social Responsibility of software companies are included The chapters are complemented by usage scenarios and experience reports on several domains as cloud applications agile development or e Health among others As a whole the chapters provide a complete overview of the various issues related to sustainable software development The target readership for this book includes CxOs e g Chief Information Officers Chief Executive Officers Chief Technology Officers etc software developers software managers auditors business owners and quality professionals It is also intended for students of software engineering and information systems and software researchers who want to know the state of the art regarding software sustainability Agile Software

Development Alan S. Koch,2005 Here s the first truly impartial book that gives you both an expert objective analysis of Agile software development methods together with much needed tools for evaluating their suitability for your organization It reviews the philosophical underpinnings and objectives of the Agile Manifesto and the 12 Agile principles and discusses in concrete detail each practice of the six most widely recognized Agile methods You get concise and unbiased insight into adoption implications the possible benefits that may accrue and the potential pitfalls of the practices **Project**

Management in Practice Jack R. Meredith,Scott M. Shafer,2020-09-01 Project Management in Practice 7th Edition presents an applied approach to the essential tools strategies and techniques students must understand to achieve success in their future careers Emphasizing the technical aspects of the project management life cycle this popular textbook offers

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Groovy in Action Dierk König, Andrew Glover, 2007 A guide to the Groovy programming language covers such topics as shell scripting dynamic programming Grails GDK and XML

Running an Agile Software Development Project William Michael Lloyd Holcombe, 2008-11-10 Based on more than 100 actual commercial projects this book explains how to run an agile software development project that delivers high quality high value solutions to business clients It concentrates on the practical social business and management aspects as well as the technical issues involved Holcombe connects readers with the wave of Agile 2.0 concepts that take the techniques of agile development and place them in the service of business goals

Sustainability and Agile Project Management Katarzyna Piwowar-Sulej, Mariusz Sołtysik, 2024-07-12 Sustainable project management is a new school of management thought and a growing trend yet there is a scarcity of research on the linkage between individual PM methodologies and sustainability in projects This book fills a gap through the theoretical and empirical research on the implications of sustainability in project management and in particular agile project management The book explores three main themes Firstly it identifies and assesses the validity of the application of the concepts of sustainable development in the family of agile methodological frameworks Secondly the research results are presented as an introduction to further in depth research on the future relationships between sustainable development and agile project management Thirdly the book identifies the competencies that are needed to successfully implement projects in the context of sustainable development Sustainability and Agile Project Management will be of direct appeal to academics and scholars in the management sciences including project management corporate governance and human resource management

PMP Project Management Professional All-in-One Exam Guide Joseph Phillips, 2021-09-24 Complete coverage of all objectives in the 2020 release of the PMP exam fully aligned with the PMBOK Guide Sixth Edition This comprehensive resource offers complete coverage of all the material included on the Project Management Professional exam You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Written by a leading project management consultant and trainer PMP Project Management Professional All in One Exam Guide will help you pass the exam with ease and will also serve as an essential on the job reference Covers all exam topics including People Processes Business Environment Agile Best Practices Knowledge Areas Online content includes Practice exams test yourself by PMP exam

domain or take a complete exam Video training from the author Worksheets for Float Earned Value Time Value of Money Printable PMP memory card **Software Engineering: A Practitioner's Approach** Roger S. Pressman,2010 For over 20 years this has been the best selling guide to software engineering for students and industry professionals alike This seventh edition features a new part four on web engineering which presents a complete engineering approach for the analysis design and testing of web applications **Project Management** Jack R. Meredith,Scott M. Shafer,Samuel J. Mantel, Jr.,2021-11-10 Project Management A Managerial Approach 11th Edition delivers a practical exploration of proven project management techniques and strategies With a strong emphasis on real world application and implementation the book is perfect for managers and business students seeking an instructive leadership resource Detailed and accessible chapters offer expert guidance on managing common organizational economic interpersonal and technical disruptions

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