

# **Agile Software Development Current Research And Future Directions**

Sibylle Peter, Martin Kropp, Torgeir Dingsøyr, Clare Dillon, Philipp Diebold, Deepti Jain, Maria Ilaria Lunesu, Andrea Pinna

# **Agile Software Development Current Research And Future Directions:**

Agile Software Development Torgeir Dingsøyr, Tore Dybå, Nils Brede Moe, 2010-05-26 Agile software development has become an umbrella term for a number of changes in how software developers plan and coordinate their work how they communicate with customers and external stakeholders and how software development is organized in small medium and large companies from the telecom and healthcare sectors to games and interactive media Still after a decade of research agile software development is the source of continued debate due to its multifaceted nature and insufficient synthesis of research results Dings yr Dyb and Moe now present a comprehensive snapshot of the knowledge gained over many years of research by those working closely with or in the industry It shows the current state of research on agile software development through an introduction and ten invited contributions on the main research fields each written by renowned experts These chapters cover three main issues foundations and background of agile development agile methods in practice and principal challenges and new frontiers They show the important results in each subfield and in addition they explain what these results mean to practitioners as well as for future research in the field The book is aimed at reflective practitioners and researchers alike and it also can serve as the basis for graduate courses at universities Agile Software <u>Development</u> Torgeir Dingsøyr, Tore Dybå, Nils Brede Moe, 2010-08-16 Agile software development has become an umbrella term for a number of changes in how software developers plan and coordinate their work how they communicate with customers and external stakeholders and how software development is organized in small medium and large companies from the telecom and healthcare sectors to games and interactive media Still after a decade of research agile software development is the source of continued debate due to its multifaceted nature and insufficient synthesis of research results Dings yr Dyb and Moe now present a comprehensive snapshot of the knowledge gained over many years of research by those working closely with or in the industry It shows the current state of research on agile software development through an introduction and ten invited contributions on the main research fields each written by renowned experts These chapters cover three main issues foundations and background of agile development agile methods in practice and principal challenges and new frontiers. They show the important results in each subfield and in addition they explain what these results mean to practitioners as well as for future research in the field The book is aimed at reflective practitioners and researchers alike and it also can serve as the basis for graduate courses at universities **Information Technology for Management: Current Research and Future Directions** Ewa Ziemba, 2020-03-10 This book constitutes extended selected papers from the 17th Conference on Advanced Information Technologies for Management AITM 2019 and the 14th Conference on Information Systems Management ISM 2019 held as part of the Federated Conference on Computer Science and Information Systems FedCSIS which took place in Leipzig Germany in September 2019 The total of 7 full and 6 short papers presented in this volume were carefully reviewed and selected from a total of 45 submissions. The papers selected to be included in this book

contribute to the understanding of relevant trends of current research on and future directions of information technology for management in business and public organizations They were organized in topical sections named information technology assessment for future development methods and models for designing information technology and aspects of implementing Research Anthology on Agile Software, Software Development, and Testing Management information technology Association, Information Resources, 2021-11-26 Software development continues to be an ever evolving field as organizations require new and innovative programs that can be implemented to make processes more efficient productive and cost effective Agile practices particularly have shown great benefits for improving the effectiveness of software development and its maintenance due to their ability to adapt to change It is integral to remain up to date with the most emerging tactics and techniques involved in the development of new and innovative software The Research Anthology on Agile Software Software Development and Testing is a comprehensive resource on the emerging trends of software development and testing This text discusses the newest developments in agile software and its usage spanning multiple industries Featuring a collection of insights from diverse authors this research anthology offers international perspectives on agile software Covering topics such as global software engineering knowledge management and product development this comprehensive resource is valuable to software developers software engineers computer engineers IT directors students managers faculty researchers and Agile Processes in Software Engineering and Extreme Programming Alberto Sillitti, Orit academicians Hazzan, Emily Bache, Xavier Albaladejo, 2011-05-03 This book contains the refereed proceedings of the 12th International Conference on Agile Software Development XP 2011 held in Madrid Spain in May 2011 The year 2011 marked the 10th anniversary of the Agile Manifesto In this spirit the XP conference continued its fine tradition of promoting agility by disseminating new research results in a timely manner and by bringing together researchers and practitioners for a fruitful mutual exchange of experiences As introduced for XP 2010 there were again two different program committees one for research papers and one for experience reports Regarding the research papers 11 out of 56 submissions were accepted as full papers and as far as the experience reports were concerned the respective number was 4 out of 17 submissions In addition to these papers this volume also includes the short research papers the abstracts of the posters the position papers of the PhD symposium and the abstracts of the workshops **Managing Software Process Evolution Marco** Kuhrmann, Jürgen Münch, Ita Richardson, Andreas Rausch, He Zhang, 2016-09-15 This book focuses on the design development management governance and application of evolving software processes that are aligned with changing business objectives such as expansion to new domains or shifting to global production In the context of an evolving business world it examines the complete software process lifecycle from the initial definition of a product to its systematic improvement In doing so it addresses difficult problems such as how to implement processes in highly regulated domains or where to find a suitable notation system for documenting processes and provides essential insights and tips to help readers manage process

evolutions And last but not least it provides a wealth of examples and cases on how to deal with software evolution in practice Reflecting these topics the book is divided into three parts Part 1 focuses on software business transformation and addresses the questions of which process es to use and adapt and how to organize process improvement programs Subsequently Part 2 mainly addresses process modeling Lastly Part 3 collects concrete approaches experiences and recommendations that can help to improve software processes with a particular focus on specific lifecycle phases This book is aimed at anyone interested in understanding and optimizing software development tasks at their organization While the experiences and ideas presented will be useful for both those readers who are unfamiliar with software process improvement and want to get an overview of the different aspects of the topic and for those who are experts with many years of experience it particularly targets the needs of researchers and Ph D students in the area of software and systems engineering or information systems who study advanced topics concerning the organization and management of software development projects and process improvements projects Systems, Software and Services Process Improvement Jakub Stolfa, Svatopluk Stolfa, Rory V. O'Connor, Richard Messnarz, 2017-08-23 This volume constitutes the refereed proceedings of the 24th EuroSPI conference held in Ostrava Czech Republic in September 2017 The 56 revised full papers presented were carefully reviewed and selected from 97 submissions They are organized in topical sections on SPI and VSEs SPI and process models SPI and safety SPI and project management SPI and implementation SPI issues SPI and automotive selected key notes and workshop papers GamifySPI SPI in Industry 4 0 best practices in implementing traceability good and bad practices in improvement safety and security experiences with agile and lean standards and assessment models team skills and diversity strategies Technology-Enhanced Professional Learning Allison Littlejohn, Anoush Margaryan, 2013-10-30 Technology Enhanced Professional Learning addresses the need for continuous workplace learning that derives from the emergence of new specialized and constantly changing work practices While continuous learning is fundamental to enabling individuals to function in and productively shape contemporary workplaces digital technology is increasingly central to productive workplace practice By examining the intersection of human learning processes emergent work practices and patterns of use of digital technology to support learning and work this edited collection brings the disparate fields of professional learning and technology enhanced learning together to advance theory and practice in both realms Agile Processes in Software Engineering and Extreme Programming - Workshops Sibylle Peter, Martin Kropp, Torgeir Dingsøyr, Clare Dillon, Philipp Diebold, Deepti Jain, Maria Ilaria Lunesu, Andrea Pinna, 2025-11-30 This open access book constitutes revised selected papers from the workshops and the poster track held at the 26th International Conference on Agile Software Development XP 2025 which took place in Brugg Windisch Switzerland during June 2 5 2025 XP is the premier agile software development conference combining research and practice The main ambition of the co located workshops was to foster collaboration generate new insights and advance the field of agile software development The 2 full

papers and 10 short papers included in these proceedings were carefully reviewed and selected from a total of 35 submissions to the workshops and the poster track They were organized in topical sections as follows AI and Agile Software Development From Frustration to Success The Third International Workshop on Global and Hybrid Work in Software Engineering GoHyb Towards a Closser Collaboration between Practice and Research in Agile Software Development What we learnt and what not Posters Making Software Andy Oram, Greg Wilson, 2010-10-14 Many claims are made about how certain tools technologies and practices improve software development But which claims are verifiable and which are merely wishful thinking In this book leading thinkers such as Steve McConnell Barry Boehm and Barbara Kitchenham offer essays that uncover the truth and unmask myths commonly held among the software development community Their insights may surprise you Are some programmers really ten times more productive than others Does writing tests first help you develop better code faster Can code metrics predict the number of bugs in a piece of software Do design patterns actually make better software What effect does personality have on pair programming What matters more how far apart people are geographically or how far apart they are in the org chart Contributors include Jorge Aranda Tom Ball Victor R Basili Andrew Begel Christian Bird Barry Boehm Marcelo Cataldo Steven Clarke Jason Cohen Robert DeLine Madeline Diep Hakan Erdogmus Michael Godfrey Mark Guzdial Jo E Hannay Ahmed E Hassan Israel Herraiz Kim Sebastian Herzig Cory Kapser Barbara Kitchenham Andrew Ko Lucas Layman Steve McConnell Tim Menzies Gail Murphy Nachi Nagappan Thomas J Ostrand Dewayne Perry Marian Petre Lutz Prechelt Rahul Premraj Forrest Shull Beth Simon Diomidis Spinellis Neil Thomas Walter Tichy Burak Turhan Elaine I Weyuker Michele A Whitecraft Laurie Williams Wendy M Williams Andreas Zeller Thomas Zimmermann

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