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Titolo	Managing Software Process Evolution [[electronic resource]] : Traditional, Agile and Beyond – How to Handle Process Change / / edited by Marco Kuhrmann, Jürgen Münch, Ita Richardson, Andreas Rausch, He Zhang
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Descrizione fisica	1 online resource (XXVII, 332 p. 73 illus., 7 illus. in color.)
Disciplina	005.1
Soggetti	Software engineering Management information systems Computer science Software Engineering Management of Computing and Information Systems Software Management
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	1. Low Ceremony Processes for Short Lifecycle Projects -- 2. The Right Degree of Agility in Rich Processes -- 3. Assessing Product Development Agility -- 4. Value-driven Process Management -- 5. Are we Ready for Disruptive Improvement? -- 6. Trials and Tribulations of the Global Software Engineering Process -- 7. The Route to Software Process Improvement in Small and Medium-sized Enterprises -- 8. Managing Software Process Evolution for Spacecraft from a Customer's Perspective -- 9. Modeling Software Processes Using BPMN: When and When Not? -- 10. Software Processes Management by Method Engineering with MESP -- 11. Adapting Case Management Techniques to Achieve Software Process Flexibility -- 12. A Researcher's Experiences in Supporting Industrial Software Process Improvement -- 13. Lessons Learned from Co-Evolution of Software Process and Model-Driven Engineering -- 14 Monitoring and Controlling Release Readiness by Learning across Projects -- 15. The Effects of Software Process

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 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. .