



New Trends in Software Process Modelling

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World Scientific Publishing Company,
2006

Monografía

Over the years, a variety of software process models have been designed to structure, describe and prescribe the software systems construction process. More recently, software process modelling is increasingly dealing with new challenges raised by the tests that the software industry has to face. This book addresses these new trends in software process modeling related to: Processes for open source software;. Systems dynamics to model and simulate the software process;. Peopleware: the importance of people in the software development and by extension in the software process. One new softwa

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Título: New Trends in Software Process Modelling

Editorial: Singapore World Scientific Publishing Company 2006

Descripción física: 1 online resource (219 pages)

Mención de serie: Series on Software Engineering and Knowledge Engineering

Bibliografía: Includes bibliographical references and index

Contenido: Preface ; Chapter 1 Discovering, Modeling, and Re-enacting Open Source Software Development Processes: A Case Study ; 1. Introduction ; 2. Related Work ; 3. Problem Domain ; 4. Field Site and Process Description ; 5. Process Discovery and Modeling ; 6. Process Re-enactment for Deployment, Validation, and Improvement; 7. Conclusion ; References Chapter 2 Software Process Dynamics: Modeling, Simulation and Improvement 1. Introduction ; 2. Software Process Simulation ; 3. Dynamic Integrated Framework for Software Process Improvement: Conceptual Approach ; 4. Framework Structure and Module Architecture ; 5. Integrated Techniques ; 6. Implementation of the Framework 7. Example of Usage 8. Conclusions and Outlook ; References ; Chapter 3 Software Process Simulation with System Dynamics -- A Tool for Learning and Decision Support ; 1. Learning and Decision Support in the Context of Software Process Management 2. Process Simulation as a Tool for Learning and Decision Support 3. Guidance for System Dynamics Process Simulation Modeling ; 4. Applications in the Automotive Industry ; 5. Conclusion ; References ; Chapter 4 High Level Software Project Modeling with System Dynamics 1. The Need for High Level Modeling 2. Definitions ; 3. The Modeling Process ; 4. An Application of the Modeling Process ; 5. The Simulation Process ; 6. An Application of the Simulation Process ; 7. Final Considerations and Outlook ; References ; Chapter 5 People-Oriented Capture, Display, and Use of Process Information

Lengua: English

Copyright/Depósito Legal: 1086528244 1259172776

ISBN: 9789812774460 9812774467 1281379131 9781281379139 9786611379131 6611379134

Materia: Computer software- Development Open source software- Technological innovations Logiciels libres- Innovations Computer software- Development.

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Enlace a formato físico adicional: Print version 9789812566195

Punto acceso adicional serie-Título: Series on software engineering and knowledge engineering

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