



New Trends in Software Process Modelling

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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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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 Improvement1. 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

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