Emerging Technologies for the Evolution and Maintenance of Software Models

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Model-driven software development drastically alters the software development process, which is characterized by a high degree of innovation and productivity.

Emerging Technologies for the Evolution and Maintenance of Software Models contains original academic work about current research and research projects related to all aspects affecting the maintenance, evolution, and reengineering (MER), as well as long-term management, of software models. The mission of this book is to present a comprehensive and central overview of new and emerging trends in software model research and to provide concrete results from ongoing developments in the field.

Topics Covered:
- Categorization of Software Models
- Managing Software Models
- Model-Driven Architectures
- Model-Driven Software Evolution
- Model-Driven Software Maintenance
- Model-Driven Software Quality Assurance
- Model-Driven Software Reengineering
- Project Management of Model-Driven Software Development
- Software Testing
- Verification and Validation of Software Models


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Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Jörg Rech is a Senior Scientist and Project Manager at SAP Research Center Karlsruhe. He received his Ph.D from the University of Hildesheim, Germany and his BSc (Vordiplom) and his MSc (Diplom) in computer science from the University of Kaiserslautern, Germany. Previously, he worked for Fraunhofer IESE in Kaiserslautern and the University of Kaiserslautern. His research mainly concerns model-driven software development, quality defect diagnosis, refactoring, software analysis, intelligent assistance, semantic technologies, and knowledge management. He has published a number of papers, mainly on software engineering and knowledge management topics.
Section 1: Maintenance and Evolution of Software Models

Chapter 1
Quality-Driven Software Development for Maintenance
Đuhbilewicz Iwona (Wroclaw University of Technology, Poland)
Hyakowska Bogumila (Wroclaw University of Technology, Poland)
Huzar Zhigiew (Wroclaw University of Technology, Poland)
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Chapter 2
Change Impact Analysis for UML Model Maintenance
Keller Anne (University of Antwerp, Belgium)
Demeys Serge (University of Antwerp, Belgium)

Chapter 3
Interplay of Security Requirements Engineering and Reverse Engineering in the Maintenance of Undocumented Software
Herrmann Andrea (University of Heidelberg, Germany)
Morali Ayse (Ascure N.V., Belgium)

Chapter 4
A Hybrid Approach to Support Layout Configuration in Model Evolution
Sun Yu (University of Alabama at Birmingham, USA)
Gray Jeff (University of Alabama, USA)
Langer Philip (Johannes Kepler University, Austria)
Kappel Gerti (Vienna University of Technology, Austria)
Wimmer Manuel (Vienna University of Technology, Austria)
White Jules (Virginia Tech, USA)

Chapter 5
Enriching the Model-Driven Architecture with Weakly Structured Information
Panfilenko Dima (DFKI (German Research Center for Artificial Intelligence), Germany)
Sed Christian (University of Applied Sciences Landshut, Germany)
Philp Keith (Bournemouth University, UK)
Jear Sheridan (Bournemouth University, UK)

Section 2: Reengineering of Software Models

Chapter 7
Software System Modernization: Reusable Modelling Tool Assets
Favry Liliana (Universidad Nacional del Centro de la Provincia de Buenos Aires, Argentina & Comisión de Investigaciones Científicas de la Provincia de Buenos Aires, Argentina)
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Perez Claudia (Universidad Nacional del Centro de la Provincia de Buenos Aires, Argentina)

Chapter 8
Model-Driven Reengineering
Pérez-Castillo Ricardo (University of Castilla-La Mancha, Spain)
Rodriguez de Guzman Ignacio Garcia (University of Castilla-La Mancha, Spain)
Piattini Mario (University of Castilla-La Mancha, Spain)

Section 3: Testing and Software Models

Chapter 9
Model-Driven Testing with Test Sheets
Feldener Michael (University of Innsbruck, Austria)
Atkinson Colin (University of Mannheim, Germany)
Breu Ruth (University of Innsbruck, Austria)

Chapter 10
Model-Based Regression Testing:
Farooq Qurat-ul-ann (Ilmenau University of Technology, Germany)
Riebisch Matthias (Ilmenau University of Technology, Germany)

Chapter 11
Static-Based Evaluation Management of Risk-Based System Tests for Service-Centric Systems
Feldener Michael (University of Innsbruck, Austria)
Agreiter Berthold (University of Innsbruck, Austria)
Breu Ruth (University of Innsbruck, Austria)

Chapter 12
A Test-Driven Approach for Metamodel Development
Cicchetti A. (Malardalen University, Sweden)
Di Ruscio D. (University of L’Aquila, Italy)
Kolovos I.S. (The University of York, UK)

Chapter 13
What is the Benefit of a Model-Based Design of Embedded Software Systems in the Car Industry?
Broy Manfred (Technical University Munich, Germany)
Kremer Sascha (Altran Technologies, Germany)
Schätz Bernhard (Technical University Munich, Germany)

Section 4: Miscellaneous

Chapter 14
Rentable Modelling Tool Assets:
Bolz Miguel Miguel A. (Technical University of Madrid, Spain)
Salazar Emilio (Technical University of Madrid, Spain)
Silva Juan P. (Technical University of Madrid, Spain)
Fernandez-Btones Javier (Technical University of Madrid, Spain)

Chapter 15
The Past, Present, and Future of Model Versioning
Brosh Petra (Vienna University of Technology, Austria)
Langer Philipp (Johannes Kepler University Linz, Austria)
Sedl Martina (Johannes Kepler University Linz, Austria)
Wieland Konrad (Vienna University of Technology, Austria)
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