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Soggetti	Software engineering Computer communication systems Computer organization Computer logic Management information systems Computer science Software Engineering/Programming and Operating Systems Computer Communication Networks Computer Systems Organization and Communication Networks Software Engineering Logics and Meanings of Programs Management of Computing and Information Systems
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	International conference proceedings.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Creating Embedded Platforms with MDA: Where's the Sweet Spot? -- Creating Embedded Platforms with MDA: Where's the Sweet Spot? -- Foundations -- Comparison of Three Model Transformation Languages -- On the Use of Higher-Order Model Transformations -- Managing Model Adaptation by Precise Detection of Metamodel Changes -- A Pattern Mining Approach Using QVT -- A Language-Theoretic View on Guidelines and Consistency Rules of UML -- A Domain Specific Language for Extracting Models in Software Modernization --

Challenges in Combining SysML and MARTE for Model-Based Design of Embedded Systems -- Derivation and Refinement of Textual Syntax for Models -- Uniform Random Generation of Huge Metamodel Instances -- Establishing Correspondences between Models with the Epsilon Comparison Language -- Dependent and Conflicting Change Operations of Process Models -- Enabling Automated Traceability Maintenance through the Upkeep of Traceability Relations -- Temporal Extensions of OCL Revisited -- An MDA-Based Approach for Behaviour Modelling of Context-Aware Mobile Applications -- A Model Driven Approach to the Analysis of Timeliness Properties -- A Hybrid Graphical and Textual Notation and Editor for UML Actions -- Applications -- Mapping Requirement Models to Mathematical Models in Control System Development -- On Study Results: Round Trip Engineering of Space Systems -- MoPCoM/MARTE Process Applied to a Cognitive Radio System Design and Analysis -- Managing Flexibility: Modeling Binding-Times in Simulink -- Experiences of Developing a Network Modeling Tool Using the Eclipse Environment -- MBT4Chor: A Model-Based Testing Approach for Service Choreographies -- Model-Based Interoperability of Heterogeneous Information Systems: An Industrial Case Study.

Sommario/riassunto

This book constitutes the refereed proceedings of the 5th European Conference on Model Driven Architecture - Foundations and Applications, ECMDA-FA 2009, held in Enschede, The Netherlands, in June 2009. The 23 revised full papers presented - 16 research papers and 7 industry papers - were carefully reviewed and selected from 72 submissions. Promoting the use of models in the specification, design, analysis, synthesis, deployment, and evolution of complex software systems, the papers address all current issues of model-driven architecture including model transformations, modelling language issues, modelling of behaviour and time, traceability and scalability, model-based embedded systems engineering, and the application of model-driven development to IT and networking systems.
