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Nota di contenuto	Research Session -- The Epsilon Generation Language -- Constructing and Visualizing Transformation Chains -- Towards Roundtrip Engineering - A Template-Based Reverse Engineering Approach -- Annotation Framework Validation Using Domain Models -- Prototyping Visual Interpreters and Debuggers for Domain-Specific Modelling Languages -- Data Flow Analysis of UML Action Semantics for Executable Models -- From UML Activities to TAAL - Towards Behaviour-Preserving Model Transformations -- A Practical MDA Approach for Autonomic Profiling and Performance Assessment --

Ladder Metamodeling and PLC Program Validation through Time Petri Nets -- Array OL Descriptions of Repetitive Structures in VHDL -- Textual Modelling Embedded into Graphical Modelling -- Classification of Concrete Textual Syntax Mapping Approaches -- Metamodel Syntactic Sheets: An Approach for Defining Textual Concrete Syntaxes -- Graphical Concrete Syntax Rendering with SVG -- Semantics Preservation of Sequence Diagram Aspects -- Generic Reusable Concern Compositions -- Modeling Human Aspects of Business Processes -- A View-Based, Model-Driven Approach -- A Semantics-Based Aspect Language for Interactions with the Arbitrary Events Symbol -- Model-Driven Platform-Specific Testing through Configurable Simulations -- Testing Metamodels -- A Metamodeling Approach for Reasoning about Requirements -- Industrial Session -- Model-Driven Security in Practice: An Industrial Experience -- Supporting the UML State Machine Diagrams at Runtime -- Model-Based Generation of Interlocking Controller Software from Control Tables -- Model-Driven Simulation of a Maritime Surveillance System -- Towards Utilizing Model-Driven Engineering of Composite Applications for Business Performance Analysis -- From Business Architecture to SOA Realization Using MDD.-Realizing an MDA and SOA Marriage for the Development of Mobile Services -- A Survey about the Intent to Use Visual Defect Annotations for Software Models -- MDA-Based Methodologies: An Analytical Survey -- Where Is the Proof? - A Review of Experiences from Applying MDE in Industry.

Sommario/riassunto

This book constitutes the refereed proceedings of the 4th European Conference on Model Driven Architecture - Foundations and Applications, ECMDA-FA 2008, held in Berlin, Germany, in June 2008. The 31 revised full papers presented - 21 research papers and 10 industry papers - were carefully reviewed and selected from 87 submissions. The papers address all current issues of model-driven architecture, i.e. model management, executable models, concrete syntaxes, aspects, and concerns, validation and testing, model-based systems engineering, model-driven development and service-oriented architectures, and the application of model-driven development. The papers are organized in topical sections on model management, executable models, concrete syntaxes, aspects and concerns, validation and testing, model-based systems engineering, model-driven development and service-oriented architectures, as well as surveys on applying model-driven development.
