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| Soggetti | Software engineering Computer engineering Programming languages (Electronic computers) Computer programming Architecture, Computer Software Engineering/Programming and Operating Systems Computer Engineering Programming Languages, Compilers, Interpreters Software Engineering Programming Techniques Computer System Implementation |
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| Nota di contenuto | Keynote 2 -- Modeling the Internet -- Transformation-Based Parallelization of Request-Processing Applications -- Model Driven Orchestration: Design for Service Compatibility -- Embedded Software Development with Projectional Language Workbenches -- Concern-Based (de)composition of Model-Driven Software Development Processes -- Flexible Model Element Introduction Policies for Aspect-Oriented Modeling -- Role-Based Generic Model Refactoring -- Precise Detection of Conflicting Change Operations Using Process Model Terms |

-- Capturing the Intention of Model Changes -- Selective and Consistent Undoing of Model Changes -- Modeling Features at Runtime -- Metamodel-Based Information Integration at Industrial Scale -- Inferring Meta-models for Runtime System Data from the Clients of Management APIs -- A Meta Model for Artefact-Oriented: Fundamentals and Lessons Learned in Requirements Engineering -- A Common Framework for Synchronization in Requirements Modelling Languages -- A Systematic Review of the Use of Requirements Engineering Techniques in Model-Driven Development -- Slicing of UML Models Using Model Transformations -- An Adjustable Transformation from OWL to Ecore -- Transforming Process Models: Executable Rewrite Rules versus a Formalized Java Program -- Keynote 3 -- Disciplined Heterogeneous Modeling -- Design Guidelines for the Development of Quality-Driven Model Transformations -- Early Deviation Detection in Modeling Activities of MDE Processes -- Artifact or Process Guidance, an Empirical Study -- Scaling Up Model Driven Engineering – Experience and Lessons Learnt -- Mod4J: A Qualitative Case Study of Model-Driven Software Development -- Modeling Issues: a Survival Guide for a Non-expert Modeler -- Monarch: Model-Based Development of Software Architectures -- Model-to-Metamodel Transformation for the Development of Component-Based Systems -- Architectural Descriptions as Boundary Objects in System and Design Work.

Sommario/riassunto

The MODELS series of conferences is the premier venue for the exchange of - novative technical ideas and experiences focusing on a very important new te- nical discipline: model-driven software and systems engineering. The expansion ofthisdisciplineisadirectconsequenceoftheincreasingsigni? canceandsuccess of model-based methods in practice. Numerous e? orts resulted in the invention of concepts, languagesand tools for the de?nition, analysis,transformation, and veri?cationofdomain-speci? cmodelinglanguagesandgeneral-purposemodeling language standards, as well as their use for software and systems engineering. MODELS 2010, the 13th edition of the conference series, took place in Oslo, Norway, October 3-8, 2010, along with numerous satellite workshops, symposia and tutorials. The conference was fortunate to have three prominent keynote speakers: Ole Lehrmann Madsen (Aarhus University, Denmark), Edward A. Lee (UC Berkeley, USA) and Pamela Zave (AT&T Laboratories, USA). To provide a broader forum for reporting on scienti?c progress as well as on experience stemming from practical applications of model-based methods, the 2010 conference accepted submissions in two distinct tracks: Foundations and Applications. The primary objective of the ?rst track is to present new research results dedicated to advancing the state-of-the-art of the discipline, whereas the second aims to provide a realistic and veri?able picture of the current state-- the-practice of model-based engineering, so that the broader community could be better informed of the capabilities and successes of this relatively young discipline. This volume contains the ? nal version of the papers accepted for presentation at the conference from both tracks.
