Record Nr. UNINA9910483992103321 Theory and practice of model transformations: Third International **Titolo** Conference, ICMT 2010, Malaga, Spain, June 28-July 2, 2010: proceedings / / Martin Gogolla, Laurence Tratt (eds.) New York, : Springer, 2010 Pubbl/distr/stampa **ISBN** 1-280-38724-6 9786613565167 3-642-13688-5 Edizione [1st ed.] Descrizione fisica 1 online resource (X, 278 p. 95 illus.) Collana Lecture notes in computer science, , 0302-9743;; 6142 LNCS sublibrary. SL 2, Programming and software engineering Altri autori (Persone) GogollaMartin TrattLaurence Disciplina 005.10285 Soggetti Search engines Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Bibliographic Level Mode of Issuance: Monograph Note generali Nota di bibliografia Includes bibliographical references. Nota di contenuto Invited Paper -- Search Computing: A Model-Driven Perspective --Research Papers -- Domain-Specific Composition of Model Deltas --Temporal Model-Based Diagnostics Generation for HVAC Control Systems -- Synthesis of OCL Pre-conditions for Graph Transformation Rules -- From State- to Delta-Based Bidirectional Model Transformations -- A Constructive Approach to Testing Model Transformations -- From Sequence Diagrams to State Machines by Graph Transformation -- Safe Composition of Transformations --Towards Incremental Execution of ATL Transformations --Constructing and Navigating Non-invasive Model Decorations --Model-to-Model Transformations By Demonstration -- Implementing Business Process Recovery Patterns through QVT Transformations --Model Migration with Epsilon Flock -- Exceptional Transformations --Improving Higher-Order Transformations Support in ATL -- Towards a Rewriting Logic Semantics for ATL -- Metamodel Matching Based on Planar Graph Edit Distance -- Surviving the Heterogeneity Jungle with Composite Mapping Operators.

Model transformations are the glue that tie modelling activities

Sommario/riassunto

together. If you've used modelling in anger then, whether you know it or not, you've used model transformations. They come in all shapes and sizes from moving models between di?erent tools to generating implementations. Model transformations have humble beginnings—at one point, not long ago, it was said by many 'in the know' that the way forward in model transformations was to use XSLT. That this idea now raises a wry smile shows how far the model transformation community has come in a short time. Where once model transformations were hacked together in a variety of unsuitable languages, we now have a number of powerful, dedicated languages and theories at our disposal. Since 2008, the ICMT conference series has played a huge part in advancing the subject, and this third edition was no di?erent. The theories and languages presented at ICMT have allowed principled model transformations to play an ever greater part in real systems. Of course there is still much more to do: we need our model transformations, languages, and theories to scale further, allow greater expressivity, be more ?exible, and aid reusability; and we lack empirically backed studies of model transformations in use. Doubtless you can think of other gaps. Yet, though some real-world challenges lie just beyond our reach, each year sees once-daunting problems conquered. Muchofthatprogressis nowdriven by ICMT, and this year's edition showedhow model transformations are increasingly being used in previously unfamiliar areas.