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Understandable State Machines from Embedded Software: Experiments and Case Studies -- Adaptation and Implementation of the ISO42010 Standard to Software Design and Modeling Tools -- Generation and Validation of Frame Conditions in Formal Models -- Analysis and Evaluation of Conformance Preserving Graph Transformation Rules -- Generation of Inductive Types from Ecore Metamodels -- Towards Automated Defect Analysis using Execution Traces of Scenario-based Models -- A Textual Notation for Modeling and Generating Code for Composite Structure -- Application of a Process-oriented Build Tool for Flight Controller Development along a DO-178C/DO-331 Process -- A Methodology for Generating Tests for Evaluating User-centric Performance of Mobile Streaming Applications -- Combining Model-Driven Architecture and Software Product Line Engineering: Reuse of Platform-specific Assets -- A Test Specification Language for Information Systems based on Data Entities, Use Cases and State Machines -- Synchronizing Heuristics for Weakly Connected Automata with Various Topologies.

| Sommario/riassunto | This book constitutes thoroughly revised and selected papers from the 6th International Conference on Model-Driven Engineering and Software Development, MODELSWARD 2018, held in Funchal, Madeira, Portugal, in January 2018. The 22 thoroughly revised and extended papers presented in this volume were carefully reviewed and selected from 101 submissions. They contribute to the development of highly relevant research trends in model-driven engineering and software development such as innovative methods for MDD-based development and testing of web-based applications and user interfaces, support for development of Domain-Specific Languages (DSLs), MDD-based application development on multiprocessor platforms, advances in MDD tooling, formal semantics and behaviour modelling, and MDD-based product-line engineering. |