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Computational Category Theory -- On GS-Monoidal Theories for Graphs with Nesting -- Stochastic Modelling and Simulation of Mobile Systems -- Autonomous Units and Their Semantics – The Concurrent Case -- Parallel Independence of Amalgamated Graph Transformations Applied to Model Transformation -- Extended Triple Graph Grammars with Efficient and Compatible Graph Translators -- Controlling Reuse in Pattern-Based Model-to-Model Transformations -- Lessons Learned from Building a Graph Transformation System -- Workflow-Driven Tool Integration Using Model Transformations -- Software Architectures and Reengineering -- The Architecture Description Language MoDeL -- Towards Managing Software Architectures with Ontologies -- Using Role-Play Diagrams to Improve Scenario Role-Play -- Reverse Engineering Using Graph Queries -- Graph-Based Structural Analysis for Telecommunication Systems -- Process Support -- Do We Really Know How to Support Processes? Considerations and Reconstruction -- A Meta-Method for Defining Software Engineering Methods -- Techniques for Merging Views of Software Processes -- Embedded Systems Engineering -- Model Checking Programmable Router Configurations -- Architectural Issues of Adaptive Pervasive Systems -- Using Graph Grammars for Modeling Wiring Harnesses – An Experience Report -- Model-Driven Development with Mechatronic UML -- Model Synchronization at Work: Keeping SysML and AUTOSAR Models Consistent -- Multi-view Modeling to Support Embedded Systems Engineering in SysML -- Engineering Design Applications -- Requirements Engineering in Complex Domains -- Tool Support for Dynamic Development Processes -- An Extensible Modeling Language for the Representation of Work Processes in the Chemical and Process Industries -- Integration Tools for Consistency Management between Design Documents in Development Processes -- Towards Semantic Navigation in Mobile Robotics -- Model Driven Engineering in Operative Industrial Process Control Environments.