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Nota di contenuto	Invited Speaker -- Why the Virtual Nature of Software Makes It Ideal for Search Based Optimization -- Model Transformation -- A Formalisation of Constraint-Aware Model Transformations -- Formal Real-Time Model Transformations in MOMENT2 -- Reusing Model Transformations While Preserving Properties -- Software Evolution -- Are Popular Classes More Defect Prone? -- Operation-Based, Fine-Grained Version Control Model for Tree-Based Representation -- A Method for Analyzing Code Homology in Genealogy of Evolving Software -- Dynamic Resource Scheduling in Disruption-Prone Software Development Environments -- Graph Transformation -- Incremental Service Composition Based on Partial Matching of Visual Contracts -- Formal Analysis and Verification of Self-Healing Systems -- Stochastic Simulation of Graph Transformation Systems -- Modeling Concepts -- Prescriptive Semantics for Big-Step Modelling Languages -- A Modular Model Composition Technique -- A Verifiable Modeling Approach to Configurable Role-Based Access Control -- Incremental Consistency

Checking of Dynamic Constraints -- Verification -- Proving Consistency and Completeness of Model Classes Using Theory Interpretation -- Automatic Cross Validation of Multiple Specifications: A Case Study -- An Automata-Theoretic Approach to Hardware/Software Co-verification -- Program Analysis -- Shape Refinement through Explicit Heap Analysis -- Memory Leaks Detection in Java by Bi-abductive Inference -- Analyzing the Impact of Change in Multi-threaded Programs -- Testing and Debugging -- Evaluating Ordering Heuristics for Dynamic Partial-Order Reduction Techniques -- A Lightweight and Portable Approach to Making Concurrent Failures Reproducible -- Efficient Runtime Assertion Checking of Assignable Clauses with Datagroups -- Performance Modeling and Analysis -- Performance Modeling and Analysis of Context-Aware Mobile Software Systems -- A Process to Effectively Identify “Guilty” Performance Antipatterns.