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| Soggetti | Software engineering Compilers (Computer programs) Computer programming Computer science Software Engineering Compilers and Interpreters Programming Techniques Models of Computation |
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| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Keynotes -- Issues in Architecture Evolution: Using Design Intent in Maintenance and Controlling Dynamic Evolution -- Component-Oriented Verification of Software Architectures through Built-in Tests -- Full Research Papers -- Non-synchronous Communications in Process Algebraic Architectural Description Languages -- Stakeholder Perception of Enterprise Architecture -- Web Services Orchestrations Evolution: A Merge Process for Behavioral Evolution -- Evaluating Domain Design Approaches Using Systematic Review -- Characterizing Relations between Architectural Views -- How Do Agents Affect Modifiability? A Comparison between Two Architectures for Intelligent Virtual Environments for Training -- An Architecture-Centric Development Environment for Black-Box Component-Based Systems -- Automating the Trace of Architectural Design Decisions and Rationales Using a MDD Approach -- Development of Fault-Tolerant Software |

Systems Based on Architectural Abstractions -- Towards Interoperability in Component Based Development with a Family of DSLs -- Modeling Architectural Patterns' Behavior Using Architectural Primitives -- Approach for Dynamically Composing Decentralised Service Architectures with Cross-Cutting Constraints -- Experience Papers -- Architectural Prototyping in Industrial Practice -- An Iterative Framework for Software Architecture Recovery: An Experience Report -- Towards a Method for the Evaluation of Reference Architectures: Experiences from a Case -- On the Role of Architectural Design Decisions in Software Product Line Engineering -- Emerging Research Papers -- Towards a Dependency Constraint Language to Manage Software Architectures -- Automating Architecture Trade-Off Decision Making through a Complex Multi-attribute Decision Process -- Representing Service-Oriented Architectural Models Using ?-ADL -- Managing Dynamic Evolution of Architectural Types -- TADL - An Architecture Description Language for Trustworthy Component-Based Systems -- L-DSMS – A Local Data Stream Management System -- Towards Independent Software Architecture Review -- Research Challenge Papers -- On the Interplay of Aspects and Dynamic Reconfiguration in a Specification-to-Deployment Environment -- Extending the ANSI/SPARC Architecture Database with Explicit Data Semantics: An Ontology-Based Approach -- Search-Based Extraction of Component-Based Architecture from Object-Oriented Systems -- A Security Model for Internet-Based Digital Asset Management Systems -- A Large Scope Transformational Approach for Distributed Architecture Design -- Towards a Software Process for Aspect-Oriented Modeling of Quality Attributes -- Domain Ontology-Based Generative Component Design Using Feature Diagrams and Meta-programming Techniques -- Facets of Adaptivity -- Transition to Service-Oriented Enterprise Architecture -- Diagrammatic Modeling of Architectural Decisions -- Web Services Domain Analysis Based on Quality Standards -- Visualizing Software Architectural Design Decisions.

Sommario/riassunto

This book constitutes the refereed proceedings of the Second European Conference on Software Architecture, ECSA 2008, held in Paphos, Cyprus, in September/October 2008. The 12 revised full papers presented together with 2 keynote abstracts, 4 experience papers, 7 emerging research papers, and 12 research challenge poster papers were carefully reviewed and selected from 83 submissions. The papers focus on formalisms, technologies, and processes for describing, verifying, validating, transforming, building, and evolving software systems. Topics include architecture modeling, architecture description languages, architectural aspects, architecture analysis, transformation and synthesis, architecture evolution, quality attributes, model-driven engineering, built-in testing and architecture-based support for component-based and service-oriented systems.