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Refactoring Experience -- Impact Evaluation for Quality-Oriented Architectural Decisions regarding Evolvability -- Functional Architecture Modeling for the Software Product Industry -- Experiences from Scenario-Based Architecture Evaluations with ATAM -- Feature-Based Composition of Software Architectures -- Linking Design Decisions to Design Models in Model-Based Software Development -- Customer Value in Architecture Decision Making -- A Formal Approach to Enforcing Consistency in Self-adaptive Systems -- Architecture-Centric Component-Based Development Needs a Three-Level ADL -- Emerging Research Papers -- Dynamic Architectural Constraints Monitoring and Reconfiguration in Service Architectures -- Using Domain Knowledge to Boost Software Architecture Evaluation -- Independently Extensible Contexts -- Mediating Connector Patterns for Components Interoperability -- Assessing the Impact of AOSD on Layered Software Architectures -- Explaining Architectural Choices to Non-architects -- Reference Models and Reference Architectures Based on Service-Oriented Architecture: A Systematic Review -- A Classification of Value for Software Architecture Decisions -- BeeEye: A Framework for Constructing Architectural Views -- Facilitating the Selection of Architectural Patterns by Means of a Marked Requirements Model -- Modelling Changes and Data Transfers for Architecture-Based Runtime Evolution of Distributed Applications -- Mining Relationships between the Participants of Architectural Patterns -- Software Architecture Recovery Process Based on Object-Oriented Source Code and Documentation -- Ontological Analysis for Generating Baseline Architectural Descriptions -- Experiences in Making Architectural Decisions during the Development of a New Base Station Platform -- On the Role of Architectural Styles in Improving the Adaptation Support of Middleware Platforms -- Context-Aware Quality Model Driven Approach: A New Approach for Quality Control in Pervasive Computing Environments -- Many to Many Service Discovery: A First Approach -- Communicating Architectural Knowledge: Requirements for Software Architecture Knowledge Management Tools -- Specifying Loose Coupling from Existing Service Composition Approaches -- Research Challenges Papers -- Dynamic Adaptive Service Architecture -- Towards Coordinated Service Composition -- Identity Management Mismatch Challenges in the Danish Municipality Administration System -- From Web Components to Web Services: Opening Development for Third Parties -- Learning from the Cell Life-Cycle: A Self-adaptive Paradigm -- Toward an Aspect Oriented ADL for Embedded Systems -- On the Need of Safe Software Product Line Architectures -- Expert Activities Automation through Enhanced Business Services Orchestration -- Architecture Decision-Making in Support of Complexity Control -- Software Architecture Constraints as Customizable, Reusable and Composable Entities -- A Framework for Dynamic Self-optimization of Power and Dependability Requirements in Green Cloud Architectures -- Identifying Architectural Connectors through Formal Concept Analysis of Communication Primitives -- Tool Demo Papers -- MDA Tool for Telecom Service Functional Design -- A NUI Based Multiple Perspective Variability Modeling CASE Tool -- ByADL: An MDE Framework for Building Extensible Architecture Description Languages.

Sommario/riassunto

Welcome to the European Conference on Software Architecture (ECSA), which is the premier European software engineering conference. ECSA provides researchers and practitioners with a platform to present and discuss the most recent, innovative, and significant findings and experiences in the field of software architecture research and practice. The fourth edition of ECSA was built upon a history of a successful series of European workshops on software architecture held from 2004

through 2006 and a series of European software architecture conferences from 2007 through 2009. The last ECSA was merged with the 8th Working IEEE/IFIP Conference on Software Architecture (WICSA). Apart from the traditional technical program consisting of keynote talks, a main - search track, and a poster session, the scope of the ECSA 2010 was broadened to incorporate other tracks such as an industry track, doctoral symposium track, and a tool demonstration track. In addition, we also offered several workshops and tutorials on diverse topics related to software architecture. We received more than 100 submissions in the three main categories: full research and experience papers, emerging research papers, and research challenges papers. The conference attracted papers (co-)authored by researchers, practitioners, and academics from 30 countries (Algeria, Australia, Austria, Belgium, Brazil, Canada, Chile, China, Colombia, Czech Republic, Denmark, Finland, France, Germany, Hong Kong, I- land, India, Ireland, Israel, Italy, The Netherlands, Poland, Portugal, Romania, Spain, Sweden, Switzerland, Tunisia, United Kingdom, United States).
