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Design and Implementation of a Fault Tolerant Job Flow Manager Using Job Flow Patterns and Recovery Policies -- Building Mashups for the Enterprise with SABRE -- Adaptation of Service Protocols Using Process Algebra and On-the-Fly Reduction Techniques -- Automatic Workflow Graph Refactoring and Completion -- Authorization and User Failure Resiliency for WS-BPEL Business Processes -- Reasoning on Semantically Annotated Processes -- Event-Driven Quality of Service Prediction -- Automatic Realization of SOA Deployment Patterns in Distributed Environments -- The LLAMA Middleware Support for Accountable Service-Oriented Architecture -- ubiSOAP: A Service Oriented Middleware for Seamless Networking -- Towards a Service-Oriented Approach for Managing Context in Mobile Environment -- An Autonomic Middleware Solution for Coordinating Multiple QoS Controls -- Transparent Runtime Adaptability for BPEL Processes -- Organizational Constraints to Realizing Business Value from Service Oriented Architectures: An Empirical Study of Financial Service Institutions -- E-Marketplace for Semantic Web Services -- Business Driven SOA Customization -- Sound Multi-party Business Protocols for Service Networks -- Automatic Mash Up of Composite Applications -- Non-desynchronizable Service Choreographies -- A Framework for Semantic Sensor Network Services -- Context-Driven Autonomic Adaptation of SLA -- Determining QoS of WS-BPEL Compositions -- An Initial Approach to Explaining SLA Inconsistencies -- Ontology-Based Compatibility Checking for Web Service Configuration Management -- SOAlive Service Catalog: A Simplified Approach to Describing, Discovering and Composing Situational Enterprise Services -- WorldTravel: A Testbed for Service-Oriented Applications -- TCP??? Compose ??? – A TCP-Net Based Algorithm for Efficient Composition of Web Services Using Qualitative Preferences -- A Runtime Quality Architecture for Service-Oriented Systems -- QoS Policies for Business Processes in Service Oriented Architectures -- Deriving Business Service Interfaces in Windows Workflow from UMM Transactions -- From Business Process Models to Web Services Orchestration: The Case of UML 2.0 Activity Diagram to BPEL -- Batch Invocation of Web Services in BPEL Process -- Formation of Service Value Networks for Decentralized Service Provisioning -- Towards Automated WSDL-Based Testing of Web Services -- Automated Service Composition with Adaptive Planning -- A Planning-Based Approach for the Automated Configuration of the Enterprise Service Bus -- Verifying Interaction Protocol Compliance of Service Orchestrations -- Specify Once Test Everywhere: Analyzing Invariants to Augment Service Descriptions for Automated Test Generation -- A Model-Driven Approach to Dynamic and Adaptive Service Brokering Using Modes -- Integrated Security Context Management of Web Components and Services in Federated Identity Environments -- Predicting and Learning Executability of Composite Web Services -- Authorization Policy Based Business Collaboration Reliability Verification -- VGC: Generating Valid Global Communication Models of Composite Services Using Temporal Reasoning -- A Framework for Advanced Modularization and Data Flow in Workflow Systems -- Model Identification for Energy-Aware Management of Web Service Systems -- LASS – License Aware Service Selection: Methodology and Framework -- Integrated and Composable Supervision of BPEL Processes -- Optimised Semantic Reasoning for Pervasive Service Discovery -- COSMA – An Approach for Managing SLAs in Composite Services -- Resource Calculations with Constraints, and Placement of Tenants and Instances for Multi-tenant SaaS Applications -- SPIN: Service Performance Isolation Infrastructure in Multi-tenancy Environment -- Management as a Service for IT Service

Management -- SMART: Application of a Method for Migration of Legacy Systems to SOA Environments -- Discovering and Deriving Service Variants from Business Process Specifications -- Market Overview of Enterprise Mashup Tools -- Siena: From PowerPoint to Web App in 5 Minutes -- Exploration of Discovered Process Views in Process Spaceship -- ROME4EU: A Web Service-Based Process-Aware System for Smart Devices -- WS-Engineer 2008 -- MetaCDN: Harnessing Storage Clouds for High Performance Content Delivery -- Yowie: Information Extraction in a Service Enabled World.

Sommario/riassunto

This book constitutes the refereed proceedings of the 6th International Conference on Service-Oriented Computing, ICSOC 2008, held in Sydney, Australia, in December 2008. The 32 revised full papers and 20 short papers of the research track presented together with 6 industrial papers, 6 demonstration papers of the industrial track, and the abstracts of 4 keynote lectures were carefully reviewed and selected from a total of 184 submissions. The papers present original research in the field of service oriented computing, from theoretical and foundational results to empirical evaluations as well as practical and industrial experiences. Topics addressed include services foundations, business service modelling, integrating systems of systems using services, service engineering, service assembly, service management, SOA runtime, quality of service, service applications (grid, e-science, government, etc.), as well as business and economical aspects of services.
