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Nota di contenuto	Invited Papers -- The Many Colors and Shapes of Cloud -- Biomedical Case Studies in Data Intensive Computing -- An Industrial Cloud:

Integrated Operations in Oil and Gas in the Norwegian Continental Shelf -- Cloudbus Toolkit for Market-Oriented Cloud Computing -- Full Papers -- Self-healing and Hybrid Diagnosis in Cloud Computing -- Snow Leopard Cloud: A Multi-national Education Training and Experimentation Cloud and Its Security Challenges -- Trust Model to Enhance Security and Interoperability of Cloud Environment -- Dynamic Malicious Code Detection Based on Binary Translator -- A Privacy Manager for Cloud Computing -- Privacy in a Semantic Cloud: What's Trust Got to Do with It? -- Data Protection-Aware Design for Cloud Services -- Accountability as a Way Forward for Privacy Protection in the Cloud -- Towards an Approach of Semantic Access Control for Cloud Computing -- Identity-Based Authentication for Cloud Computing -- Strengthen Cloud Computing Security with Federal Identity Management Using Hierarchical Identity-Based Cryptography -- Availability Analysis of a Scalable Intrusion Tolerant Architecture with Two Detection Modes -- Data Center Consolidation: A Step towards Infrastructure Clouds -- Decentralized Service Allocation in a Broker Overlay Based Grid -- DisTec: Towards a Distributed System for Telecom Computing -- Cloud Computing Boosts Business Intelligence of Telecommunication Industry -- Composable IO: A Novel Resource Sharing Platform in Personal Clouds -- SLA-Driven Adaptive Resource Management for Web Applications on a Heterogeneous Compute Cloud -- Cost of Virtual Machine Live Migration in Clouds: A Performance Evaluation -- Cloud-Oriented Virtual Machine Management with MLN -- A Systematic Process for Developing High Quality SaaS Cloud Services -- Cloud Computing Service Composition and Search Based on Semantic -- Deploying Mobile Computation in Cloud Service -- A Novel Method for Mining SaaS Software Tag via Community Detection in Software Services Network -- Retrieving and Indexing Spatial Data in the Cloud Computing Environment -- Search Engine Prototype System Based on Cloud Computing -- Distributed Structured Database System HugeTable -- Cloud Computing: A Statistics Aspect of Users -- An Efficient Cloud Computing-Based Architecture for Freight System Application in China Railway -- Web Server Farm in the Cloud: Performance Evaluation and Dynamic Architecture -- SPECI, a Simulation Tool Exploring Cloud-Scale Data Centres -- CloudWF: A Computational Workflow System for Clouds Based on Hadoop -- A Novel Multipath Load Balancing Algorithm in Fat-Tree Data Center -- Scheduling Active Services in Clustered JBI Environment -- Task Parallel Scheduling over Multi-core System -- Cost-Minimizing Scheduling of Workflows on a Cloud of Memory Managed Multicore Machines -- Green Cloud on the Horizon -- Industrial Cloud: Toward Inter-enterprise Integration -- Community Cloud Computing -- A Semantic Grid Oriented to E-Tourism -- Irregular Community Discovery for Social CRM in Cloud Computing -- A Contextual Information Acquisition Approach Based on Semantics and Mashup Technology -- Evaluating MapReduce on Virtual Machines: The Hadoop Case -- APFA: Asynchronous Parallel Finite Automaton for Deep Packet Inspection in Cloud Computing -- Short Papers -- Secure Document Service for Cloud Computing -- Privacy of Value-Added Context-Aware Service Cloud -- A Simple Technique for Securing Data at Rest Stored in a Computing Cloud -- Access Control of Cloud Service Based on UCON -- Replica Replacement Strategy Evaluation Based on Grid Locality -- Performance Evaluation of Cloud Service Considering Fault Recovery -- BlueSky Cloud Framework: An E-Learning Framework Embracing Cloud Computing -- Cloud Infrastructure & Applications – CloudIA -- One Program Model for Cloud Computing -- Enterprise Cloud Architecture for Chinese Ministry of Railway -- Research on Cloud Computing Based

on Deep Analysis to Typical Platforms -- Automatic Construction of SP Problem-Solving Resource Space -- An Idea of Special Cloud Computing in Forest Pests' Control -- IBM Cloud Computing Powering a Smarter Planet -- Cloud Computing: An Overview -- Integrating Cloud-Computing-Specific Model into Aircraft Design -- Towards a Theory of Universally Composable Cloud Computing -- A Service-Oriented Qos-Assured and Multi-Agent Cloud Computing Architecture -- Price-Oriented Trading Optimization for Grid Resource -- A Requirements Recommendation Method Based on Service Description -- Extending YML to Be a Middleware for Scientific Cloud Computing -- Power-Aware Management in Cloud Data Centers -- Parallel K-Means Clustering Based on MapReduce -- Storage and Retrieval of Large RDF Graph Using Hadoop and MapReduce -- Distributed Scheduling Extension on Hadoop -- A Data Distribution Aware Task Scheduling Strategy for MapReduce System -- Cloud Computing Based Internet Data Center.

Sommario/riassunto

This book constitutes the reviewed proceedings of the first International Conference on Cloud Computing, CloudCom 2009, held in Beijing, China, December 1-4, 2009. The 42 full papers presented together with four invited papers were carefully selected from 200 submissions. This book includes but are not limited to deal with topics like cloud /grid architecture, load balancing, optimal deploy configuration, consistency models, virtualization technologies, middleware frameworks, software as a Service (SaaS), hardware as a Service (HaaS), data grid & semantic web, web services, security and Risk, fault tolerance and reliability, auditing, monitoring and scheduling, utility computing, high-performance computing and peer to peer computing.