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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Keynote Papers -- What Does It Mean to “Measure Performance”? -- Trustworthy Computing -- Towards Next Generation Web Information Retrieval -- Session 1: Web Information System Modelling -- Making XML an Information Modeling Language -- Web Information Exchange Diagrams for UML -- A User Service Oriented Method to Model Web Information Systems -- The Power of Media Types -- Scenario Matching Using Functional Substitutability in Web Services -- Session 2:

Payment and Security -- Three Kinds of E-wallets for a NetPay Micro-Payment System -- Information Assurance in Federated Identity Management: Experimentations and Issues -- Query-Log Based Authority Analysis for Web Information Search -- XML Signature Extensibility Using Custom Transforms -- Session 3: Information Extraction -- Extraction of Cognitively-Significant Place Names and Regions from Web-Based Physical Proximity Co-occurrences -- Query Based Chinese Phrase Extraction for Site Search -- Extracting Business Rules from Web Product Descriptions -- Wrapping HTML Tables into XML -- Vague Event-Based Related News Detection -- Session 4: Advanced Applications -- A Web Based Platform for the Design of Administrational Reference Process Models -- Technologies for Online Issuing Service of Documents -- AutoDBT: A Framework for Automatic Testing of Web Database Applications -- Web-Based Surgical Simulation of Craniofacial CT Data -- Applications of Data Mining in Web Services -- Session 5: Performance Issues -- A Framework for the Relational Implementation of Tree Algebra to Retrieve Structured Document Fragments -- An Efficient OLAP Query Processing Technique Using Measure Attribute Indexes -- Preserving Aggregation Semantic Constraints in XML Document Update -- Session 6: Linkage Analysis and Document Clustering -- Exploiting PageRank at Different Block Level -- Multi-type Features Based Web Document Clustering -- Clustering Transactional XML Data with Semantically-Enriched Content and Structural Features -- Session 7: Web Caching and Content Analysis -- Schema-Less, Semantics-Based Change Detection for XML Documents -- Discovering Minimal Infrequent Structures from XML Documents -- Temporal Web Page Summarization -- Web Pre-fetching Using Adaptive Weight Hybrid-Order Markov Model -- Text Categorization Based on Domain Ontology -- Session 8: XML Query Processing -- AC-Tree: An Adaptive Structural Join Index -- Approximate Query Answering for a Heterogeneous XML Document Base -- Optimization of XML Transformations Using Template Specialization -- Materialized View Maintenance for XML Documents -- An Efficient Algorithm for Clustering XML Schemas -- Session 9: Web Search and Personalization -- Google’s “I’m Feeling Lucky”, Truly a Gamble? -- A Knowledge-Based Framework for the Rapid Development of Conversational Recommenders -- Categorizing Web Information on Subject with Statistical Language Modeling -- Optimizing Web Search Using Spreading Activation on the Clickthrough Data -- AVATAR: An Advanced Multi-agent Recommender System of Personalized TV Contents by Semantic Reasoning -- An Online Adaptive Method for Personalization of Search Engines -- Session 10: Workflow Management and Enterprise Information Systems -- Management of Serviceflow in a Flexible Way -- Recovery Nets: Towards Self-Adaptive Workflow Systems -- Structuring the Development of Inter-organizational Systems -- Contemplating Open Source Enterprise Systems -- Managing Changes to Virtual Enterprises on the Semantic Web -- Session 11: Business Processes -- A Reflective Approach to Keeping Business Characteristics in Business-End Service Composition -- A Domain Framework for Representation of Web System Impacts -- Knowledge Management in the Business Process Negotiation -- A Web Service Oriented Integration Approach for Enterprise and Business-to-Business Applications -- Session 12: Deep Web and Dynamic Content -- A Two-Phase Sampling Technique to Improve the Accuracy of Text Similarities in the Categorisation of Hidden Web Databases -- Capturing Web Dynamics by Regular Approximation -- Deep Crawling in the Semantic Web: In Search of Deep Knowledge -- Session 13: Web Information System Design -- Designing Localized Web Sites -- Scaling

Dynamic Web Content Provision Using Elapsed-Time-Based Content Degradation -- Component Reconfiguration Tool for Software Product Lines with XML Technology -- Generating Multidimensional Schemata from Relational Aggregation Queries -- Semantics Based Conformance Assessment of ebXML Business Processes -- Session 14: Ontology and Applications -- Usage Scenarios and Goals for Ontology Definition Metamodel -- XML Schema Matching Based on Incremental Ontology Update -- Spam Mail Filtering System Using Semantic Enrichment -- Integrating Ontology Knowledge into a Query Algebra for Multimedia Meta Objects -- Session 15: Multimedia, User Interfaces, and Languages -- Toward Semantic Web Services for Multimedia Adaptation -- A Lightweight Encryption Algorithm for Mobile Online Multimedia Devices -- Aspect-ARM: An Aspect-Oriented Active Rule System for Heterogeneous Multimedia Information -- Opportunistic Search with Semantic Fisheye Views -- A Graphical XQuery Language Using Nested Windows -- Grouping in MetaXQuery -- Session 16: Peer-to-Peer and Grid Systems -- Search in Unstructured Peer-to-Peer Networks -- A Formal Model for the Grid Security Infrastructure -- SPSS: A Case of Semantic Peer-to-Peer Search System -- An Efficient Broadcast Algorithm Based on Connected Dominating Set in Unstructured Peer-to-Peer Network -- A Time-Based Peer Trust Evaluation in P2P E-commerce Environments -- Fault Resilience of Structured P2P Systems.

Sommario/riassunto

We have described the development of a new micro-payment system, NetPay, featuring different ways of managing electronic money, or e-coins. NetPay provides an off-line, anonymous protocol that supports high-volume, low-cost electronic transactions over the Internet. We developed three kinds of e-wallets to manage coins in a NetPay-based system: a sever-side e-wallet allowing multiple computer access to-coins; a client-side e-wallet allowing customer PC management of the e-coins, and a cookie-based e-wallet cache to improve performance of the client-side e-wallet communication overhead. Experiences to date with NetPay prototypes have demonstrated it provides an effective micro-payment strategy and customers welcome the ability to manage their electronic coins in different ways. References 1. Dai, X. and Lo, B.: NetPay – An Efficient Protocol for Micropayments on the WWW. Fifth Australian World Wide Web Conference, Australia (1999) 2. Dai, X., Grundy, J. and Lo, B.: Comparing and contrasting micro-payment models for- commerce systems, International Conferences of Info-tech and Info-net (ICII), China (2001) 3. Dai, X., Grundy, J.: Architecture of a Micro-Payment System for Thin-Client Web App- cations. In Proceedings of the 2002 International Conference on Internet Computing, Las Vegas, CSREA Press, June 24-27, 444--450 4. Dai, X. and Grundy J.: “Customer Perception of a Thin-client Micro-payment System Issues and Experiences”, Journal of End User Computing, 15(4), pp 62-77, (2003).