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	Soggetti	Computer science
		Database management
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	Nota di contenuto	Foundations -- Representing the UMLS® Semantic Network Using OWL -- Reducing OWL Entailment to Description Logic Satisfiability -- RDFS (FA) and RDF MT: Two Semantics for RDFS -- Web Ontology Reasoning with Datatype Groups -- Merging Topics in Well-Formed XML Topic Maps -- Semantic Processing of the Semantic Web -- Viewing the Semantic Web through RVL Lenses -- Infrastructure for Web Explanations -- Ontological Reasoning -- Semantic Coordination: A New Approach and an Application -- Interoperability on XML Data -- C-OWL: Contextualizing Ontologies -- Web Ontology Language

Requirements w.r.t Expressiveness of Taxonomy and Axioms in Medicine -- Semantic Web Services -- Automating DAML-S Web Services Composition Using SHOP2 -- Surfing the Service Web -- Adapting BPEL4WS for the Semantic Web: The Bottom-Up Approach to Web Service Interoperation -- Request Rewriting-Based Web Service Discovery -- Learning to Attach Semantic Metadata to Web Services -- Semantic Markup for Semantic Web Tools: A DAML-S Description of an RDF-Store -- The DAML-S Virtual Machine -- IRS–II: A Framework and Infrastructure for Semantic Web Services -- Towards a Knowledge-Based Approach to Semantic Service Composition -- Security, Trust, and Privacy -- Security for DAML Web Services: Annotation and Matchmaking -- Trust Management for the Semantic Web -- Signing RDF Graphs -- A Semantic E-Wallet to Reconcile Privacy and Context Awareness -- A Policy Based Approach to Security for the Semantic Web -- Agents and the Semantic Web -- Semantic Web Languages for Policy Representation and Reasoning: A Comparison of KAoS, Rei, and Ponder -- An Agent Framework for Inter-personal Information Sharing with an RDF-Based Repository -- An Environment for Distributed Ontology Development Based on Dependency Management -- Beyond Ontology Construction; Ontology Services as Online Knowledge Sharing Communities -- Information Retrieval -- Semantic Annotation, Indexing, and Retrieval -- An Approach for the Ranking of Query Results in the Semantic Web -- Querying Semantic Web Resources Using TRIPLE Views -- Automatic Annotation of Content-Rich HTML Documents: Structural and Semantic Analysis -- Multi-media -- Semi-automatic Semantic Annotation of Images Using Machine Learning Techniques -- Integrating Structure and Semantics into Audio-visual Documents -- SCULPTEUR: Towards a New Paradigm for Multimedia Museum Information Handling -- Towards Ontology-Driven Discourse: From Semantic Graphs to Multimedia Presentations -- Tools and Metodologies -- Benchmarking DAML+OIL Repositories -- DAMLJessKB: A Tool for Reasoning with the Semantic Web -- Prolog-Based Infrastructure for RDF: Scalability and Performance -- Cooking the Semantic Web with the OWL API -- Applications -- WebScripter: Grass-Roots Ontology Alignment via End-User Report Creation -- Magpie – Towards a Semantic Web Browser -- Ontology-Based Resource Matching in the Grid – The Grid Meets the Semantic Web -- A Q-Based Architecture for Semantic Information Interoperability on Semantic Web -- Haystack: A Platform for Authoring End User Semantic Web Applications -- Mangrove: Enticing Ordinary People onto the Semantic Web via Instant Gratification -- FrameNet Meets the Semantic Web: Lexical Semantics for the Web -- Industrial Track -- ScadaOnWeb – Web Based Supervisory Control and Data Acquisition -- ODESeW. Automatic Generation of Knowledge Portals for Intranets and Extranets -- Making Business Sense of the Semantic Web -- KIM – Semantic Annotation Platform -- Ontology-Oriented Programming: Static Typing for the Inconsistent Programmer -- Task Computing – The Semantic Web Meets Pervasive Computing -- A Semantic Infosphere -- Ontology-Based Information Integration in the Automotive Industry -- Ontology-Based Query and Answering in Chemistry: OntoNova Project Halo.

Sommario/riassunto

These proceedings contain the papers accepted for presentation at the Second International Semantic Web Conference (ISWC 2003) held on Sanibel Island, Florida, U. S. A. , October 20–23, 2003. Following the success of ISWC 2002 that washeldinSardiniainJune2002, ISWC2003enjoyedagreatlyincreasedinterest in the conference themes. The number of submitted papers more than doubled compared with ISWC 2002 to 283. Of those, 262 were submitted to the research track

and 21 to the industrial track. With rare exceptions, each submission was evaluated by three program committee members whose reviews were coordinated by members of the senior program committee. This year 49 papers in the research track and 9 papers in the industrial track were accepted. The high quality of ISWC 2003 was the result of the joint e?ort of many people. First of all we would like to thank the authors for their high-quality submissions and the members of the program committee for their reviewing and review coordination e?orts. We would like to extend special thanks to Christoph Bussler for chairing the industrial track, to Mike Dean for his help with the conference management software, the web site, and conference publicity, and to Massimo Paolucci for helping with the organization of the proceedings and arranging sponsorships.