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Titolo	Semantics of a Networked World. Semantics for Grid Databases : First International IFIP Conference on Semantics of a Networked World: ICSNW 2004, Paris, France, June 17-19, 2004. Revised Selected Papers / / edited by Mokrane Bouzeghoub, Carole Goble, Vipul Kashyap, Stefano Spaccapietra
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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 3226
Disciplina	004.36
Soggetti	Computers Database management Information storage and retrieval Application software Software engineering Computer networks Theory of Computation Database Management Information Storage and Retrieval Information Systems Applications (incl. Internet) Software Engineering Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Invited Talks -- Databases and the Grid: JDBC in WSDL, or Something Altogether Different? -- Emergent Semantics Systems -- Integration -- User-Specific Semantic Integration of Heterogeneous Data: The SIRUP Approach -- Towards a Mediation System Framework for Transparent Access to Largely Distributed Sources -- Null Values Revisited in Prospect of Data Integration -- Peer to Peer -- Semantic-Based Query Routing and Heterogeneous Data Integration in Peer-to-Peer Semantic

Link Networks -- Peer Selection in Peer-to-Peer Networks with Semantic Topologies -- Autonomous Gossiping: A Self-Organizing Epidemic Algorithm for Selective Information Dissemination in Wireless Mobile Ad-Hoc Networks -- Hyper: A Framework for Peer-to-Peer Data Integration on Grids -- Semantics for Scientific Applications -- Semantically Linking and Browsing Provenance Logs for E-science -- Emergent Semantics: Towards Self-Organizing Scientific Metadata -- Semantic Visualization of Biochemical Databases -- Interoperability and Mediation -- Semantic Information Interoperability in Open Networked Systems -- A New Mechanism for the Interoperability of Data Systems -- An Architecture for Recommendation Based Service Mediation -- Global Services and Schemas -- Static–Dynamic Integration of External Services into Generic Business Processes -- Knowledge Sifter: Agent-Based Ontology-Driven Search over Heterogeneous Databases Using Semantic Web Services -- Managing Grid Schemas Globally -- Posters -- Relational Graphical Models of Computational Workflows for Data Mining -- InfoGrid: Information Resource Integration -- Semantic Annotation of Classification Data for KDD Support Services -- Role of the Ontologies in the Context of Grid Computing and Application for the Human Disease Studies -- Cluster Entries for Semantic Organization of Peer-to-Peer Network -- A Peer-to-Peer Service Supporting Data Quality: Design and Implementation Issues -- Analysis Patterns for the Geographic Database Conceptual Schema: An Ontology Aided Approach.

Sommario/riassunto

The explosion in data exchange fostered by the success of the Web has restated semantics as a kernel issue in the development of services providing data and - formationtousersandapplicationsworldwide. Thisnewlydesignatedconference serieson “SemanticsfortheNetworkedWorld”uni?esintoasingleframework the previous series on “Database Semantics” and “Visual Database Systems” that the IFIP WG 2.6 has been o?ering since 1985. Whereas the intent of the conferenceseriesistoexploreinterestingresearchissuesrelatedtosemantics,the themeforthe2004editionis“SemanticsforGridDatabases”. Gridcomputing,a new ?eld concentrating on “?exible, secure, coordinated resource sharing among dynamic collections of individuals, institutions, and resources (also referred to as virtual organizations)”, has gathered momentum in the context of providing shared infrastructures for large-scale scienti?c computations and data analysis. Similarly, P2P computing has attracted substantial attention. Currently, attention is devoted to the provision of middleware services to makecomputationalresourcesinteroperableatthetechnicallevelandtoincrease the e?ciency of use of physical resources. However, as Grid and P2P computing infrastructures are being increasingly adopted, they are likely to have typical problems of information overload that manifest themselves in any large-scale infrastructure for information and application sharing (e.g., the WWW). The need for resource discovery, application and service interoperability, integration and composition manifest themselves in these infrastructures. The ability to interoperate at the semantic level will largely determine the continued success and utilization of these infrastructures.