

1. Record Nr.	UNISA996465968903316
Titolo	Databases, Information Systems, and Peer-to-Peer Computing [[electronic resource]] : Second International Workshop, DBISP2P 2004, Toronto, Canada, August 29-30, 2004, Revised Selected Papers // edited by Wee Siong Ng, Beng Chin Ooi, Aris Ouksel, Claudio Sartori
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2005
Edizione	[1st ed. 2005.]
Descrizione fisica	1 online resource (X, 232 p.)
Collana	Information Systems and Applications, incl. Internet/Web, and HCI ; ; 3367
Disciplina	005.74
Soggetti	Database management Information storage and retrieval Application software Computer communication systems Software engineering Artificial intelligence Database Management Information Storage and Retrieval Information Systems Applications (incl. Internet) Computer Communication Networks Software Engineering Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Keynote Address -- Data Management in Mobile Peer-to-Peer Networks -- On Using Histograms as Routing Indexes in Peer-to-Peer Systems -- Processing and Optimization of Complex Queries in Schema-Based P2P-Networks -- Using Information Retrieval Techniques to Route Queries in an InfoBeacons Network -- Similarity Search in P2P Networks -- Content-Based Similarity Search over Peer- to-Peer Systems -- A Scalable Nearest Neighbor Search in P2P Systems -- Efficient Range Queries and Fast Lookup Services for Scalable P2P

Networks -- The Design of PIRS, a Peer-to-Peer Information Retrieval System -- Adaptive P2P Networks -- Adapting the Content Native Space for Load Balanced Indexing -- On Constructing Internet-Scale P2P Information Retrieval Systems -- AESOP: Altruism-Endowed Self-organizing Peers -- Information Sharing and Optimization -- Search Tree Patterns for Mobile and Distributed XML Processing -- Dissemination of Spatial-Temporal Information in Mobile Networks with Hotspots -- Wayfinder: Navigating and Sharing Information in a Decentralized World -- CISS: An Efficient Object Clustering Framework for DHT-Based Peer-to-Peer Applications.

Sommario/riassunto

Peer-to-peer (P2P) computing promises to offer exciting new possibilities in distributed information processing and database technologies. The realization of this promise lies fundamentally in the availability of enhanced services such as structured ways for classifying and registering shared information, verification and certification of information, content-distributed schemes and quality of content, security features, information discovery and accessibility, interoperation and composition of active information services, and finally market-based mechanisms to allow cooperative and non-cooperative information exchanges. The P2P paradigm lends itself to constructing large-scale complex, adaptive, autonomous and heterogeneous database and information systems, endowed with clearly specified and differential capabilities to negotiate, bargain, coordinate, and self-organize the information exchanges in large-scale networks. This vision will have a radical impact on the structure of complex organizations (business, scientific, or otherwise) and on the emergence and the formation of social communities, and on how the information is organized and processed. The P2P information paradigm naturally encompasses static and wireless connectivity, and static and mobile architectures. Wireless connectivity combined with the increasingly small and powerful mobile devices and sensors pose new challenges to as well as opportunities for the database community. Information becomes ubiquitous, highly distributed and accessible anywhere and at any time over highly dynamic, unstable networks with very severe constraints on the information management and processing capabilities.
