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Soggetti	Computer science Artificial intelligence Application software Database management Information storage and retrieval systems Pattern recognition systems Computer Science Artificial Intelligence Computer and Information Systems Applications Database Management Information Storage and Retrieval Automated Pattern Recognition
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Knowledge Look-Up and Matching -- Text Mining Using Markov Chains of Variable Length -- Faster Pattern Matching Algorithm for Arc-Annotated Sequences -- VSOP (Valued-Sum-of-Products) Calculator for Knowledge Processing Based on Zero-Suppressed BDDs -- Knowledge Search and Clustering -- A Method for Pinpoint Clustering of Web Pages with Pseudo-Clique Search -- Specific-Purpose Web Searches on the Basis of Structure and Contents -- Graph Clustering Based on Structural Similarity of Fragments -- Knowledge Mediation -- Connecting Keywords Through Pointer Paths over the Web -- Querying

with Preferences in a Digital Library -- Interoperation of Web-Based Resources -- An Enhanced Spreadsheet Supporting Calculation-Structure Variants, and Its Application to Web-Based Processing -- Knowledge Federation over the Web Based on Meme Media Technologies -- Knowledge Evolution -- Towards Understanding Meme Media Knowledge Evolution -- Mechanisms of Knowledge Evolution for Web Information Extraction.

Sommario/riassunto

The lives of people all around the world, especially in industrialized nations, continue to be changed by the presence and growth of the Internet. Its influence is felt at scales ranging from private lifestyles to national economies, boosting the pace at which modern information and communication technologies influence personal choices along with business processes and scientific endeavors. In addition to its billions of HTML pages, the Web can now be seen as an open repository of computing resources. These resources provide access to computational services as well as data repositories, through a rapidly growing variety of Web applications and Web services. However, people's usage of all these resources barely scratches the surface of the possibilities that such richness should offer. One simple reason is that, given the variety of information available and the rate at which it is being extended, it is difficult to keep up with the range of resources relevant to one's interests. Another reason is that resources are offered in a bewildering variety of formats and styles, so that many resources effectively stand in isolation. This is reminiscent of the challenge of enterprise application integration, familiar to every large organization be it in commerce, academia or government. The challenge arises because of the accumulation of information and communication systems over decades, typically without the technical provision or political will to make them work together. Thus the exchange of data among those systems is difficult and expensive, and the potential synergistic effects of combining them are never realized.
