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Soggetti	Natural language processing (Computer science) Database management Information storage and retrieval Artificial intelligence Computer logic Mathematical logic Natural Language Processing (NLP) Database Management Information Storage and Retrieval Artificial Intelligence Logics and Meanings of Programs Mathematical Logic and Formal Languages
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Linguistics in Information Systems Design -- Word Net++: A Lexicon Supporting the Color-X Method -- Temporal Databases -- Generating Narratives from Plots Using Schema Information -- Temporal Granularity Enlightened by Knowledge -- Word-Sense Disambiguation -- Coping with Different Types of Ambiguity Using a Uniform Context Handling Mechanism -- WSD Algorithm Applied to a NLP System -- "Beijing Frowns and Washington Pays Close Attention" Computer

Processing of Relations between Geographical Proper Names in Foreign Affairs -- Semantic Relationships in Databases -- Understanding and Representing Relationship Semantics in Database Design -- An Ontology for Classifying the Semantics of Relationships in Database Design -- A Very Large Database of Collocations and Semantic Links -- Semantic and Contextual Document Retrieval, Traceability -- Using Terminology Extraction to Improve Traceability from Formal Models to Textual Requirements -- Natural Language Analysis for Semantic Document Modeling -- Domain Analysis and Queries in Context -- Natural Language Generation for Answering E-Mail and OLAP -- Using Information Extraction and Natural Language Generation to Answer E-Mail -- Using OLAP and Data Mining for Content Planning in Natural Language Generation -- NLP Techniques for Information Retrieval -- Toward an Enhancement of Textual Database Retrieval Using NLP Techniques -- Document Identification by Shallow Semantic Analysis -- Automated Information Extraction out of Classified Advertisements -- WEB Information Retrieval -- A Smart Web Query Engine for Semantic Retrieval of Web Data and Its Application to E-Trading -- GETESS: Constructing a Linguistic Search Index for an Internet Search Engine -- Using Semantics for Efficient Information Retrieval -- Guidelines for NL-Based Requirements Specifications in NIBA -- Developing Document Analysis and Data Extraction Tools for Entity Modelling -- On the Automatization of Database Conceptual Modelling through Linguistic Engineering -- Technical Databases -- The REVERE Project: Experiments with the Application of Probabilistic NLP to Systems Engineering -- Presenting Mathematical Concepts as an Example for Inference-Rich Domains -- Users and Interactions in WEB Querying -- Modeling Interaction and Media Objects -- Conceptual Patterns -- Validating Conceptual Models - Utilising Analysis Patterns as an Instrument for Explanation Generation -- Conceptual Patterns - A Consolidation of Coad's and Wohed's Approaches -- Patterns Retrieval System: A First Attempt -- Posters and Demonstrations -- Ontology Learning from Text -- ISIS: Interaction through Speech with Information Systems -- Effects of Hypertext Navigational Structure on Knowledge Acquisition -- MEDIEVAL : A Navigation Tool Through Medieval Documents -- MESIA: A Web Site Assistant for Document Filtering -- LEXIS A Query Language to Scan Information Flow -- A Financial Data Mining Trading System.

## Sommario/riassunto

This book includes the papers presented at the fifth International Conference on Application of Natural Language to Information Systems (NLDB 2000) which was held in Versailles (France) on June 28-30. Following NLDB95 in Versailles, NLDB96 in Amsterdam, NLDB97 in Vancouver, and NLDB99 in Klagenfurt, NLDB 2000 was a forum for exchanging new research results and trends on the benefits of integrating Natural Language resources in Information System Engineering. Since the first NLDB workshop in 1995 it has become apparent that each aspect of an information system life cycle may be improved by natural language techniques: database design (specification, validation, conflict resolution), database query languages, and application programming that use new software engineering research (natural language program specifications). As information systems are now evolving into the communication area, the term databases should be considered in the broader sense of information and communication systems. The main new trend in NLDB 2000 is related to the WEB wave: WEB querying, WEB answering, and information retrieval. Among 47 papers submitted from 18 countries, the program committee selected 29 papers to be presented during the conference. Besides these regular papers, two invited talks (given by Pr.

Reind P. van de Riet and Pr. Maurice Gross), and a set of posters and demonstrations are also included in these proceedings.

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