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Disciplina	005.52  2 22
Soggetti	Data structures (Computer science) Information storage and retrieval Artificial intelligence Database management Coding theory Information theory Data Structures and Information Theory Information Storage and Retrieval Artificial Intelligence Database Management Data Structures Coding and Information Theory
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Efficient One Dimensional Real Scaled Matching -- Linear Time Algorithm for the Longest Common Repeat Problem -- Automaton-Based Sublinear Keyword Pattern Matching -- Techniques for Efficient Query Expansion -- Inferring Query Performance Using Pre-retrieval Predictors -- A Scalable System for Identifying Co-derivative Documents -- Searching for a Set of Correlated Patterns -- Linear Nondeterministic Dawg String Matching Algorithm (Abstract) -- Permuted and Scaled String Matching -- Bit-Parallel Branch and Bound Algorithm for Transposition Invariant LCS -- A New Feature

Normalization Scheme Based on Eigenspace for Noisy Speech  
 Recognition -- Fast Detection of Common Sequence Structure Patterns  
 in RNAs -- An Efficient Algorithm for the Longest Tandem Scattered  
 Subsequence Problem -- Automatic Document Categorization Based on  
 k-NN and Object-Based Thesauri -- Indexing Text Documents Based  
 on Topic Identification -- Cross-Comparison for Two-Dimensional  
 Text Categorization -- DDOC: Overlapping Clustering of Words for  
 Document Classification -- Evaluation of Web Page Representations by  
 Content Through Clustering -- Evaluating Relevance Feedback and  
 Display Strategies for Searching on Small Displays -- Information  
 Extraction by Embedding HMM to the Set of Induced Linguistic Features  
 -- Finding Cross-Lingual Spelling Variants -- An Efficient Index Data  
 Structure with the Capabilities of Suffix Trees and Suffix Arrays for  
 Alphabets of Non-negligible Size -- An Alphabet-Friendly FM-Index --  
 Concurrency Control and I/O-Optimality in Bulk Insertion -- Processing  
 Conjunctive and Phrase Queries with the Set-Based Model -- Metric  
 Indexing for the Vector Model in Text Retrieval -- Negations and  
 Document Length in Logical Retrieval -- An Improvement and an  
 Extension on the Hybrid Index for Approximate String Matching -- First  
 Huffman, Then Burrows-Wheeler: A Simple Alphabet-Independent FM-  
 Index -- Metric Indexes for Approximate String Matching in a  
 Dictionary -- Simple Implementation of String B-Trees -- Alphabet  
 Permutation for Differentially Encoding Text -- A Space-Saving Linear-  
 Time Algorithm for Grammar-Based Compression -- Simple, Fast, and  
 Efficient Natural Language Adaptive Compression -- Searching XML  
 Documents Using Relevance Propagation -- Dealing with Syntactic  
 Variation Through a Locality-Based Approach -- Efficient Extraction of  
 Structured Motifs Using Box-Links -- Efficient Computation of  
 Balancedness in Binary Sequence Generators -- On Asymptotic Finite-  
 State Error Repair -- New Algorithms for Finding Monad Patterns in  
 DNA Sequences -- Motif Extraction from Weighted Sequences --  
 Longest Motifs with a Functionally Equivalent Central Block -- On the  
 Transformation Distance Problem -- On Classification of Strings.

## Sommario/riassunto

The papers contained in this volume were presented at the 11th  
 Conference on String Processing and Information Retrieval (SPIRE), held  
 Oct. 5–8, 2004 at the Department of Information Engineering of the  
 University of Padova, Italy. They were selected from 123  
 papers submitted in response to the call for papers. In addition, there  
 were invited lectures by C.J. van Rijsbergen (University of Glasgow, UK)  
 and Setsuo Arikawa (Kyushu University, Japan). In view of the large  
 number of good-quality submissions, some were accepted this year  
 also as short abstracts. These also appear in the proceedings. Papers  
 solicited for SPIRE 2004 were meant to constitute original contri-  
 tions to areas such as string pattern searching, matching and discovery;  
 data compression; text and data mining; machine learning; tasks, methods,  
 al- rithms, media, and evaluation in information retrieval; digital  
 libraries; and - plications to and interactions with domains such as  
 genome analysis, speech and natural language processing, Web links and  
 communities, and multilingual data. SPIRE has its origins in the South  
 American Workshop on String Proce- ing which was ?rst held in 1993.  
 Starting in 1998, the focus of the symposium was broadened to include  
 the area of information retrieval due to the common  
 emphasis on information processing. The ?  
 rst 10 meetings were held in Belo Horizonte (Brazil, 1993), Valparaiso (Chile,  
 1995), Recife (Brazil, 1996), Valparaiso (Chile, 1997), Santa Cruz  
 (Bolivia, 1998), Cancun (Mexico, 1999), A Coruna ~ (Spain, 2000),  
 Laguna San Rafael (Chile, 2001), Lisbon (Portugal, 2002), and Manaus  
 (Brazil, 2003).

