

Table of Contents

Invited Papers

Patterns on the Web	1
<i>Krishna Bharat</i>	
Current Challenges in Bioinformatics	16
<i>João Meidanis</i>	

Web Algorithms

What's Changed? Measuring Document Change in Web Crawling for Search Engines	28
<i>Halil Ali and Hugh E. Williams</i>	
Link Information as a Similarity Measure in Web Classification	43
<i>Marco Cristo, Pavel Calado, Edleno Silva de Moura, Nivio Ziviani, and Berthier Ribeiro-Neto</i>	
A Three Level Search Engine Index Based in Query Log Distribution	56
<i>Ricardo Baeza-Yates and Felipe Saint-Jean</i>	

Bit-Parallel Algorithms

Row-wise Tiling for the Myers' Bit-Parallel Approximate String Matching Algorithm	66
<i>Kimmo Fredriksson</i>	
Alternative Algorithms for Bit-Parallel String Matching	80
<i>Hannu Peltola and Jorma Tarhio</i>	
Bit-Parallel Approximate String Matching Algorithms with Transposition	95
<i>Heikki Hyyrö</i>	

Compression

Processing of Huffman Compressed Texts with a Super-Alphabet	108
<i>Kimmo Fredriksson and Jorma Tarhio</i>	
(S,C)-Dense Coding: An Optimized Compression Code for Natural Language Text Databases	122
<i>Nieves R. Brisaboa, Antonio Fariña, Gonzalo Navarro, and María F. Esteller</i>	

Linear-Time Off-Line Text Compression by Longest-First Substitution . . . 137
Shunsuke Inenaga, Takashi Funamoto, Masayuki Takeda, and Ayumi Shinohara

SCM: Structural Contexts Model for Improving Compression in Semistructured Text Databases 153
Joaquín Adiego, Gonzalo Navarro, and Pablo de la Fuente

Categorization and Ranking

Ranking Structured Documents Using Utility Theory in the Bayesian Network Retrieval Model 168
Fabio Crestani, Luis M. de Campos, Juan M. Fernández-Luna, and Juan F. Huete

An Empirical Comparison of Text Categorization Methods 183
Ana Cardoso-Cachopo and Arlindo L. Oliveira

Improving Text Retrieval in Medical Collections Through Automatic Categorization 197
Rodrigo F. Vale, Berthier Ribeiro-Neto, Luciano R.S. de Lima, Alberto H.F. Laender, and Hermes R.F. Junior

Music Retrieval

A Bit-Parallel Suffix Automaton Approach for (δ, γ) -Matching in Music Retrieval 211
Maxime Crochemore, Costas S. Iliopoulos, Gonzalo Navarro, and Yoan J. Pinzon

Flexible and Efficient Bit-Parallel Techniques for Transposition Invariant Approximate Matching in Music Retrieval 224
Kjell Lemström and Gonzalo Navarro

Multilingual Information Retrieval

FindStem: Analysis and Evaluation of a Turkish Stemming Algorithm . . . 238
Hayri Sever and Yultan Bitirim

Non-adjacent Digrams Improve Matching of Cross-Lingual Spelling Variants 252
Heikki Keskustalo, Ari Pirkola, Kari Visala, Erkkka Leppänen, and Kalervo Järvelin

The Implementation and Evaluation of a Lexicon-Based Stemmer 266
Gilberto Silva and Claudia Oliveira

French Noun Phrase Indexing and Mining for an Information Retrieval System	277
<i>Hatem Haddad</i>	
Subsequences and Distributed Algorithms	
New Refinement Techniques for Longest Common Subsequence Algorithms	287
<i>Lasse Bergroth, Harri Hakonen, and Juri Väisänen</i>	
The Size of Subsequence Automaton	304
<i>Zdeněk Troníček and Ayumi Shinohara</i>	
Distributed Query Processing Using Suffix Arrays	311
<i>Mauricio Marín and Gonzalo Navarro</i>	
Algorithms on Strings and Trees	
BFT: Bit Filtration Technique for Approximate String Join in Biological Databases	326
<i>S. Alireza Aghili, Divyakant Agrawal, and Amr El Abbadi</i>	
A Practical Index for Genome Searching	341
<i>Heikki Hyvrö and Gonzalo Navarro</i>	
Using WordNet for Word Sense Disambiguation to Support Concept Map Construction	350
<i>Alberto J. Cañas, Alejandro Valerio, Juan Lalinde-Pulido, Marco Carvalho, and Marco Arguedas</i>	
Memory-Adaptative Dynamic Spatial Approximation Trees	360
<i>Diego Arroyuelo, Francisca Muñoz, Gonzalo Navarro, and Nora Reyes</i>	
Large Edit Distance with Multiple Block Operations	369
<i>Dana Shapira and James A. Storer</i>	
Author Index	379



<http://www.springer.com/978-3-540-20177-9>

String Processing and Information Retrieval
10th International Symposium, SPIRE 2003, Manaus,
Brazil, October 8-10, 2003, Proceedings
Nascimento, M.A.; Moura, E.S. de; Oliveira, A.L. (Eds.)
2003, CCCXCVI, 384 p., Softcover
ISBN: 978-3-540-20177-9