

# 8th Symposium on String Processing and Information Retrieval (SPIRE'2001)

Laguna de San Rafael, Chile, Nov 12 – 16, 2001

## PROGRAM

### MONDAY 12 — DEPARTURE

*20:00 Departure*

19:00–20:30 RIBIDI Meeting

*21:30–23:00 Dinner*

### TUESDAY 13 — STRING PROCESSING

*07:00–08:00 Breakfast*

08:30–08:40 Welcome

#### SESSION 1: String Processing I — Indexes

Chair: Maxime Crochemore

08:40–09:40 OF MAPS BIGGER THAN THE EMPIRE

Invited talk by Alberto Apostolico

09:40–10:05 On-Line Construction of Symmetric Compact Directed Acyclic Word Graphs

Shunsuke Inenaga, Hiromasa Hoshino, Ayumi Shinohara, Masayuki Takeda and Setsuo Arikawa

10:05–10:30 On Using Two-Phase Filtering in Indexed Approximate String Matching with Application to Searching Unique Oligonucleotides

Heikki Hyvrö

*10:30–10:45 Coffee Break*

#### SESSION 2: String Processing II — Miscellaneous

Chair: Jorma Tarhio

10:45–11:10 Exact Distribution of Deletion Sizes for Unavoidable Strings

Christine Heitsch

11:10–11:35 Speed-up of Aho-Corasick Pattern Matching Machines by Rearranging States

Toshio Nishimura, Shuichi Fukamachi and Takeshi Shinohara

12:00–13:00 *Boat trips to the fiords*

13:30–15:30 *Lunch (barbecue)*

### **SESSION 3: String Processing III — Sequence comparison**

Chair: Alberto Apostolico

16:00–16:25 Speeding-up Hirschberg and Hunt-Szymanski Algorithms for the LCS Problem  
Maxime Crochemore, Costas Iliopoulos and Yoan Pinzón

16:25–16:50 Using Edit Distance in Point-Pattern Matching  
Veli Mäkinen

16:50–17:05 *Coffee Break*

17:05–17:30 Musical Sequence Comparison for Melodic and Rhythmic Similarities  
Takashi Kadota, Masahiro Hirao, Akira Ishino, Masayuki Takeda, Ayumi Shinohara and Fumihiko Matsuo

17:30–17:50 Genome Rearrangement Distance by Fusion, Fission and Transposition is Easy (Poster)  
Zanoni Dias and João Meidanis

17:50–18:05 *Coffee Break*

### **SESSION 4: Algorithms I**

Chair: Nivio Ziviani

18:05–18:30 An Efficient Bottom-Up Distance between Trees  
Gabriel Valiente (talk by Ricardo Baeza-Yates)

18:30–18:55 On Compression of Parse Trees  
Jorma Tarhio

19:00–20:30 RIBIDI Meeting

21:00–23:00 *Dinner (in the boat)*

## **WEDNESDAY 14 — INFORMATION RETRIEVAL**

07:30–08:30 *Breakfast*

### **SESSION 5: Information Retrieval I — Efficient Indexing**

Chair: Gonzalo Navarro

09:00–10:00 RE-STORE: A SYSTEM FOR COMPRESSING, BROWSING AND SEARCHING LARGE DOCUMENTS  
Invited talk by Alistair Moffat and Raymond Wan

10:00–10:25 Compaction Techniques for Nextword Indexes

Dirk Bahle, Hugh Williams and Justin Zobel

10:25–10:50 Distributed Query Processing Using Partitioned Inverted Files

Claudine Santos Badue, Ricardo Baeza-Yates, Berthier Ribeiro-Neto and Nivio Ziviani

10:50–11:05 *Coffee Break*

### **SESSION 6: Information Retrieval II — Ranking**

Chair: Alistair Moffat

11:05–11:30 A Model for the Representation and Focussed Retrieval of Structured Documents based on Fuzzy Aggregation

Gabriella Kazai, Mounia Lalmas and Thomas Rölleke

11:30–11:55 Relating Web Characteristics with Link Based Web Page Ranking

Ricardo Baeza-Yates and Carlos Castillo

14:00–16:00 *Lunch*

### **SESSION 7: Information Retrieval III — Categorization & Classification**

Chair: Ricardo Baeza-Yates

16:30–16:55 Fast Categorisation of Large Document Collections

Vaughan Shanks and Hugh E. Williams

16:55–17:20 A Subquadratic Algorithm for Cluster and Outlier Detection in Massive Metric Data

Edgar Chávez

17:20–17:35 *Coffee Break*

### **SESSION 8: Information Retrieval IV — Semantics**

Chair: Vicente López

17:35–18:00 Semantic Thesaurus for Automatic Expanded Query in Information Retrieval

Marco González and Vera L. Strube de Lima

18:00–18:25 Using Semantics for Paragraph Selection in Question Answering Systems

José Luis Vicedo (talk by Edgar Chávez)

18:25–18:40 *Coffee Break*

### **SESSION 9: Information Retrieval V — Stemming & Conflation**

Chair: Joaquín Delgado

18:40–19:05 A Stemming Algorithm for the Portuguese Language

Viviane Orenço and Christian Huyck

19:05–19:30 Evaluation of N-grams Conflation Approach in Text-Based Information Retrieval  
Serhiy Kosinov (talk by Edgar Chávez)

*21:30–23:30 Dinner*

## **THURSDAY 15 — INFORMATION RETRIEVAL**

*08:30–09:30 Breakfast*

*10:00–12:00 Boat trips to glacier*

*13:00–14:30 Lunch*

### **SESSION 10: Information Retrieval VI — Miscellaneous**

Chair: Edgar Chávez

17:00–18:00 ADVANCES IN COLLABORATIVE INFORMATION RETRIEVAL AND RECOMMENDER SYSTEMS  
Invited talk by Joaquín Delgado

18:00–18:25 Storing Semistructured Data in Relational Databases  
Karine Magalhães, Alberto Laender and Altigran Silva

18:25–18:45 A Documental Database Query Language (Poster)  
Nieves Rodríguez Brisaboa, Miguel Rodríguez Penabad, Ángeles Saavedra Places and  
Francisco J. Rodríguez Martínez

18:45–19:05 Design of a Graphical User Interface for Structured Documents Retrieval (Poster)  
Fabio Crestani, Pablo de la Fuente and Jesús Vegas

19:05–19:25 Farewell & Announcement of SPIRE'2002

19:30–21:00 RIBIDI meeting

*21:30–23:30 Farewell dinner*

## **FRIDAY 16 — ARRIVAL**

*07:00–08:00 Breakfast*

*08:00 Arrival*