

Program

Monday, October 29, 2007

09:00 Welcome and Opening Ceremony

SESSION 1: String Processing

Chair: Gad Landau, Univ. of Haifa, Israel

09:30 Christos Makris, Yannis Panagis, Evangelos Theodoridis and Athanasios Tsakalidis

A Web-Page Usage Prediction Scheme Using Weighted Suffix Trees

10:00 Yair Dombb, Ohad Lipsky, Benny Porat, Ely Porat and Asaf Zur

Approximate Swap and Mismatch Edit Distance

10:30 Raphaël Clifford and Ely Porat

A Filtering Algorithm for k -Mismatch with Don't Cares

11:00 Coffee Break

11:30 **Invited Speaker**

Nivio Ziviani, Federal Univ. of Minas Gerais, Brazil

Near Space-Optimal Perfect Hashing Algorithms

13:00 Lunch

SESSION 2: Information Retrieval Applications

Chair: Justin Zobel, NICTA Melbourne, Australia

14:30 Olivier Motelet, Benjamin Piwowarski, Georges Dupret, Jose A. Pino and Nelson Baloian

Enhancing Educational-Material Retrieval using Authored-Lesson Metadata

15:00 Julien Allali, Pascal Ferraro, Pierre Hanna and Costas Iliopoulos

Local Transpositions in Alignment of Polyphonic Musical Sequences

15:30 Carlos Castillo, Debora Donato and Aristides Gionis

Estimating Number of Citations Using Author Reputation

16:00 Klaus Berberich, Srikanta Bedathur and Gerhard Weikum

A Pocket Guide to Web History

16:30 Coffee Break

SESSION 3: Compression and Text Searching

Chair: Benjamin Piwowarski, Univ. of Chile, Chile

- 17:00 Veli Mäkinen and Gonzalo Navarro
Implicit Compression Boosting with Applications to Self-Indexing
- 17:30 Luís M.S. Russo, Gonzalo Navarro and Arlindo L. Oliveira
Approximate String Matching with Lempel-Ziv Compressed Indexes
- 18:00 David E. Losada and Ronald T. Fernández
Highly Frequent Terms and Sentence Retrieval

Tuesday, October 30, 2007

SESSION 4: Pattern Matching

Chair: Veli Mäkinen, Univ. of Helsinki, Finland

- 09:30 Amihoud Amir, Yonatan Aumann, Piotr Indyk, Avivit Levy and Ely Porat
Efficient Computations of l_1 and l_∞ Rearrangement Distances
- 10:00 Zvi Gotthilf and Moshe Lewenstein
Approximating Constrained LCS
- 10:30 Ayelet Butman, Noa Lewenstein, Ely Porat and Benny Porat
Jump-Matching With Errors
- 11:00 Coffee Break
- 11:30 **Invited Speaker**
Justin Zobel, NICTA Melbourne, Australia
Measures of Measurements: Robust Evaluation of Search Systems
- 13:00 Lunch

SESSION 5: Bio Informatics

Chair: Gonzalo Navarro, Univ. of Chile, Chile

- 14:30 Amihood Amir, Tzvika Hartman, Oren Kapah, B. Riva Shalom
and Dekel Tsur
Generalized LCS
- 15:00 Mohamed Ibrahim Abouelhoda
*A Chaining Algorithm for Mapping cDNA Sequences to Multiple
Genomic Sequences*
- 15:30 Leena Salmela and Jorma Tarhio
Algorithms for Weighted Matching
- 16:00 Petri Kalsi, Leena Salmela and Jorma Tarhio
Tuning Approximate Boyer-Moore for Gene Sequences
- 16:30 Coffee Break

SESSION 6: Indexing

Chair: Amihood Amir, Bar-Ilan Univ., Israel

- 17:00 Gad M. Landau, Dekel Tsur and Oren Weimann
Indexing a Dictionary for Subset Matching Queries
- 17:30 Tetsuo Shibuya
Prefix-Shuffled Geometric Suffix Tree
- 18:00 Ralf Schenkel, Andreas Broschart, Seungwon Hwang, Martin
Theobald and Gerhard Weikum
Efficient Text Proximity Search
- 18:30 Pang Ko and Srinivas Aluru
*Optimal Self-Adjusting Tree for Dynamic String Data in Sec-
ondary Storage*

Wednesday, October 31, 2007

SESSION 7: Compression

Chair: Wolfgang Nejdl, Univ. Hannover, Germany

09:30 Joaquín Adiego, Miguel A. Martínez-Prieto and Pablo de la Fuente

Edge-Guided Natural Language Text Compression

10:00 J. Shane Culpepper and Alistair Moffat

Compact Set Representation for Information Retrieval

10:30 Francisco Claude and Gonzalo Navarro

A Fast and Compact Web Graph Representation

11:00 Coffee Break

SESSION 8: Web Searching and Modeling

Chair: Alistair Moffat, Univ. of Melbourne, Australia

11:30 Ricardo Baeza-Yates, Flavio Junqueira, Vassilis Plachouras and Hans Friedrich Witschel

Admission Policies for Caches of Search Engine Results

12:00 Guilherme T. de Assis, Alberto H.F. Laender, Marcos A. Gonçalves, Altigran S. da Silva

Exploiting Genre in Focused Crawling

12:30 Christina Lioma and Iadh Ounis

Extending Weighting Models with a Term Quality Measure

01:00 Lunch

14:30 **Invited Speaker**

Andrew Tomkins, Yahoo! Research, USA

Trends in Online Social Interactions