

Conference on Space-Efficient Data Structures Streams and Algorithms

University of Waterloo, Canada

Thursday, August 15th

8:15 – 9:00
8:30 –

refreshments in DC1301
registration in DC 1301

9:00 – 9:30 Kurt Mehlhorn

Chair: Alejandro López-Ortiz (DC 1302)

The query complexity of finding a hidden permutation.

9:30 – 10:00 Erik Demaine

Variations on Instant Insanity

10:00 – 10:30 Rudolf Fleischer

The game ‘Lights Out’

10:30 – 11:00

break

11:00 – 11:30 Mark Sandler

Chair: Venkatesh Raman (DC 1302)

Frugal streaming for estimating quantities

11:30 – 12:00 Timothy M. Chan

Time-space tradeoffs for selection

12:00 – 12:30 Jean Cardinal

Generalized comparison-based sorting

12:30 – 14:00

lunch (on your own)

14:00 – 14:30 Faith Ellen

Chair: Alfredo Viola (DC 1302)

Bounds for scheduling jobs on grid processors

14:30 – 15:00 Alejandro López-Ortiz

List update problem

15:00 – 15:30

break

15:30 – 16:00 Allan Borodin

Chair: Andrej Brodnik (DC 1302)

Computing (and life) is all about tradeoffs

16:00 – 16:30 David Kirkpatrick

On the fruitful interplay between upper and lower bounds in algorithm design and analysis.

16:30 – 17:00 Gastón Gonnet

S-vectors, or the Burrows-Wheeler transform used for searching as it was designed in 1989

17:00 – 17:30 Frank Tompa

Stuff I learned from Ian

18:00 – 18:30
18:30 –

The Canadian Clay and Glass Gallery
Reception and drinks
Banquet

Friday, August 16th

8:45 – 9:30

refreshments in DC1301

9:30 – 10:00 Jérémy Barbay

Chair: Alfredo Viola (DC 1302)

From Time to space - fast algorithms
yield fast and small data structures

10:00 – 10:30 Pat Nicholson

Data structures in the bitprobe model

10:30 – 11:00

break

11:00 – 11:30 Stephane Durocher

Chair: Alejandro López-Ortiz (DC 1302)

A simple data structure for RMQ

11:30 – 12:00 Matthew Skala

Array range queries

12:00 – 12:30 Meng He

Succinct and implicit data structures for
computational geometry

12:30 – 14:00

lunch (on your own)

14:00 – 14:30 Gerth Brodal

Chair: Venkatesh Raman (DC 1302)

A survey of priority queues

14:30 – 15:00 Prosenjit Bose

A history of distribution-sensitive

15:00 – 15:30 John Iacono

In pursuit of the dynamic optimality
conjecture

15:30 – 16:00

break

16:00 – 16:30 Rajeev Raman

Chair: Andrej Brodnik (DC 1302)

Succinct representations of ordinal trees

16:30 – 17:00 Moshe Lewenstein

Orthogonal range searching for text
indexing

17:00 – 17:30 Rahul Shah

Indexes for document retrieval with
relevance

17:30 – 18:00 Roberto Grossi

Random Access to High-Order Entropy
Compressed Text