Dagstuhl Seminar on Scalable Data Structures (23211)

SUNDAY (May 21)

18:00 Dinner buffet

MONDAY (May 22)

07:30 Breakfast
09:00 Opening & Introductions (1-slide / 3-minutes per participant)
10:30 Coffee break
11:00 Guy E. Blelloch, Should We Teach Parallelism throughout Undergraduate Algorithm Courses?
12:15 Lunch
15:30 Coffee & Cake
16:00 Alexander Conway, Iceberg Hashing and Mosaic Pages: A Data-Structural Approach to Faster Virtual Address Translation
16:35 Sebastian Wild, Quicksort, Timsort, Powersort - Python's new Sorting Algorithm
17:10 Quanquan C. Liu, Scalable Data Structures for Privacy on Graphs
18:00 Dinner

TUESDAY (May 23)

07:30 Breakfast
09:00 Yihan Sun, Parallel Longest Increasing Subsequence and van Emde Boas Trees
09:30 Markus E. Nebel, Lomuto’s Comeback or the Unpredictability of Program Efficiency
10:00 Peter Sanders, Sliding Block Hashing
10:30 Coffee break
11:00 Open problem session
12:15 Lunch
15:30 Coffee & Cake
16:00 Shikha Singh, Online List Labelling with Predictions
16:24 Martin Farach-Colton, Simple Hash Tables
17:12 Helen Xu, Optimizing Search Layouts in Packed Memory Arrays
17:36 Kunal Agrawal, Using Data Structures within Parallel Algorithms
18:00 Dinner
WEDNESDAY (May 24)

07:30 Breakfast
09:00 Rasmus Kyng, Dynamic Spanners
09:30 Valerie King, Batch Parallel fast Worst Case Dynamic Connectivity
10:00 Eva Rotenberg, Sparsity-Adaptive Dynamic Graph Algorithms
10:30 Coffee break
11:00 Tsvi Kopelowitz, The k-Dyck Edit Distance Problem
11:30 Robert Tarjan, Heaps
12:00 Group picture
12:15 Lunch
14:00 Hike
15:30 Coffee & Cake
18:00 Dinner

THURSDAY (May 25)

07:30 Breakfast
09:00 Ioana-Oriana Berceea, An Extendable Data Structure for Incremental Stable Perfect Hashing
09:30 Nodari Sitchinava, How to design algorithms for GPUs
10:00 Inge Li Gørtz, Sparse Regular Expressions
10:30 Coffee break
11:00 Seth Pettie, Sorting pattern-avoiding permutations and forbidden 0-1 matrices
11:30 Rob Johnson, Maplets and their Application
12:15 Lunch
15:30 Coffee & Cake
16:00 Elena Arseneva, Morphing Graph Drawings
16:30 Ian Munro, Ordered Majority
17:00 Eunjin Oh, Parameterized algorithm for the planar disjoint paths problem
17:30 Francesco Silvestri, Algorithms for Processing in Memory
18:00 Dinner

FRIDAY (May 26)

07:30 Breakfast
09:00 Check-out
09:00 Riko Jacob, Sorting with Priced Comparisons: The General, the Bichromatic, and the Universal
09:30 Nicole Wein, Online List Labeling: Breaking the $\log^2 n$ Barrier
10:00 Guy Even, Dynamic Filters and Retrieval with one Memory Access
10:30 Justin Dallant, Conditional Lower Bounds for Dynamic Geometric Problems
11:00 Coffee break
12:15 Lunch