SPAA 2017 Schedule

Day 0: Sunday, July 23rd
Rm 310, Marvin Center
18:00 - 20:00  RECEPTION

Day 1: Monday, July 24th
Rm 309, Marvin Center
8:30 - 8:40  OPENING
8:40 - 9:40  KEYNOTE LECTURE 1
Piotr Indyk. Beyond P vs. NP: Quadratic-Time Hardness For Big Data Problems

Continental Ballroom, 3rd floor Marvin Center
9:40 - 10:00  COFFEE BREAK

Rm 309, Marvin Center
10:00 - 11:55  SESSION 1  Session Chair: Friedhelm Meyer auf der Heide
10:00 - 10:46  Sepehr Assadi and Sanjeev Khanna. Randomized Composable Coresets for Matching and Vertex Cover (Best Paper Award)

Continental Ballroom, 3rd floor Marvin Center
12:00 - 13:30  LUNCH

Rm 309, Marvin Center
13:30 - 15:20  SESSION 2  Session Chair: Michael Goodrich
13:53 - 14:16  Runtian Ren and Xueyan Tang. Online Flexible Job Scheduling for Minimum Span
14:16 - 14:39  Vincent Chau, Mingming Li, Samuel Mccauley and Wang Kai. Minimizing Total Weighted Flow Time with Calibrations
14:39 - 15:02  Yossi Azar and Danny Vainstein. Tight Bounds for Clairvoyant Dynamic Bin Packing
15:02 - 15:14  Brief Announcement: Kunal Agrawal, Jing Li, Kefu Lu and Benjamin Moseley. Scheduling Parallelizable Jobs Online to Maximize Throughput

Continental Ballroom, 3rd floor Marvin Center
15:20 - 15:40  COFFEE BREAK

Rm 309, Marvin Center
15:40 - 17:41  SESSION 3  Session Chair: Hossein Bateni
15:40 - 16:03  Jason Li and Ryan O'Donnell. Bounding laconic proof systems by solving CSPs in parallel
16:03 - 16:26  Elaye Karstadt and Oded Schwartz. Matrix Multiplication, a Little Faster
16:49 - 17:12  Peter Kling, Alexander Mäcker, Sören Riechers and Alexander Skopalk. Sharing is Caring: Multiprocessor Scheduling with a Sharable Resource
17:12 - 17:24  Brief Announcement: Soheil Behnezhad, Mahsa Derakhshani, Hossein Esfandiari, Elif Tan and Hadi Yami. Graph Matching in Massive Datasets
17:24 - 17:36  Brief Announcement: David Eppstein and Michael Goodrich. Using Multi-Level Parallelism and 2-3 Cuckoo Filters for Faster Set Intersection Queries and Sparse Boolean Matrix Multiplication
18:00 - 19:30  BUSINESS MEETING
Day 2: Tuesday, July 25th

Continental Ballroom, 3rd floor Marvin Center
8:40 - 9:40  KEYNOTE LECTURE 2
Guy Blelloch. Some Sequential Algorithms are Almost Always Parallel.

Grand Ballroom, 3rd floor Marvin Center
9:40 - 10:00  COFFEE BREAK

Rm 309, Marvin Center
10:00 - 11:56  SESSION 4  Session Chair: Susanne Albers
10:00 - 10:46  Sudipto Guha, Yi Li and Qin Zhang. Distributed Partial Clustering (Best Paper Award)
10:46 - 11:09  Pierre Fraigniaud and Dennis Olivetti. Distributed Detection of Cycles
11:09 - 11:32  He Sun and Luca Zanetti. Distributed Graph Clustering by Load Balancing
11:32 - 11:55  Costas Busch, Maurice Herlihy, Miroslav Popovic and Gokarna Sharma. Fast Scheduling in Distributed Transactional Memory

Grand Ballroom, 3rd floor Marvin Center
12:00 - 13:30  LUNCH

Rm 309, Marvin Center
13:30 - 15:20  SESSION 5  Session Chair: Keren Censor-Hillel
13:30 - 13:53  Cooper Anderton and Maxwell Young. Is Our Model for Contention Resolution Wrong?
14:16 - 14:39  Yoann Dieudonne and Andrzej Pelc. Impact of Knowledge on Election Time in Anonymous Networks

Grand Ballroom, 3rd floor Marvin Center
15:20 - 15:40  COFFEE BREAK

Rm 309, Marvin Center
15:40 - 17:35  SESSION 6  Session Chair: Frank Dehne
15:40 - 16:03  Zhiyu Liu, Irina Calciu, Maurice Herlihy and Onur Mutlu. Concurrent Data Structures for Near-Memory Computing
16:03 - 16:26  Riko Jacob and Nodari Sitchinava. Lower Bounds in the Asymmetric External Memory Model
16:49 - 17:12  Stefan Dobrev, Manuel Lafond, Lata Narayanan and Jaroslav Opatrny. Optimal Local Buffer Management for Information Gathering with Adversarial Traffic
17:24 - 17:36  Brief Announcement: Yuan Tang, Ronghui You and Shiyi Wang. STAR (Space-Time Adaptive and Reductive) Algorithms for Dynamic Programs with more than O(1) Dependency

Bobby Van’s Grill, 1201 New York Ave  BANQUET
18:30 - 21:00  Bar Service (house wine and beer)
19:00  Dinner service begins
Day 3: Wednesday, July 26th

**Continental Ballroom, 3rd floor Marvin Center**

8:40 - 9:40  KEYNOTE LECTURE 3

**Grand Ballroom, 3rd floor Marvin Center**

9:40 - 10:00  COFFEE BREAK

**Rm 309, Marvin Center**

10:00 - 11:55  SESSION 7  Session Chair: Mohsen Ghaffari
10:00 - 10:23  Shahbaz Khan. Near Optimal Parallel Algorithms for Dynamic DFS in Undirected Graphs
10:46 - 11:09  Colin Cooper, Tomasz Radzik and Nicolás Rivera. Improved Cover Time Bounds for the Coalescing-Branching Random Walk on Graphs
11:09 - 11:32  Björn Feldkord and Friedhelm Meyer Aufer der Heide. The Mobile Server Problem
11:44 - 11:56  Brief Announcement: Gokarna Sharma, Costas Busch and Supratik Mukhopadhyay. Complete Visibility for Oblivious Robots in Linear Time

**Grand Ballroom, 3rd floor Marvin Center**

12:00 - 13:30  LUNCH

**Rm 309, Marvin Center**

13:30 - 15:20  SESSION 8  Session Chair: Boaz Patt-Shamir
13:30 - 13:53  Marcin Bienkowski, Jan Marcinkowski, Maciej Pacut, Stefan Schmid and Aleksandra Spyra. Online Tree Caching
14:16 - 14:39  Richard Cole and Vijaya Ramachandran. Bounding Cache Miss Costs of Multithreaded Computations Under General Schedulers
14:39 - 14:51  Brief Announcement: Rohit Atre. How to discover parallelism in sequential programs?
15:15 - 15:27  Brief Announcement: Ellis Giles, Kshitij Doshi and Peter Varman. Hardware Transactional Storage Class Memory

**Grand Ballroom, 3rd floor Marvin Center**

15:30 - 15:50  COFFEE BREAK & CLOSING OF SPAA