Workshop

"Massive Data Models and Computational Geometry"

September 23 – 27, 2023

organized by

Mark de Berg, Anne Driemel, Robert Krauthgamer, Morteza Monemizadeh

- **Monday, September 23**

08:45 - 09:00	*Self Registration*
09:00 - 09:10	**Opening; introduction to the center**
09:10 - 10:00	**Participants briefly introduce themselves**
10:00 - 11:00	**Open-problem session I: presentations**
11:00 - 11:30	*Coffee & Tea Break*
11:30 - 12:45	**Open-problem Session II: open stage**
12:45 - 14:00	*Lunch on your own*
14:00 - 15:30	**Work in groups**
15:30 - 16:00	*Coffee & Tea Break*
16:00 - 17:00	**Work in groups**
17:00 - ...	**Wine and Cheese party**

- **Tuesday, September 24**

09:00 - 09:45	**Jeff Phillips** *The Versatility of Mergability for Geometric Summaries on Massive Data*
09:45 - 10:15	*Coffee & Tea Break*

10:15 - 12:00	**Work in groups**
12:00 - 13:30	*Lunch on your own*
13:30 - 14:15	**Pankaj Agarwal** *Algorithms for Optimal Transport in Discrete and Semi-Discrete Settings*
14:15 - 15:30	**Work in groups**
15:30 - 16:00	*Coffee & Tea Break*
16:00 - 17:15	**Work in groups**
17:15 - 18:00	**Group progress reports**

- **Wednesday, September 25**

09:00 - 09:45	**Jie Gao** *Differentially Privacy and Discrepancy on Shortest Paths*
09:45 - 10:15	*Coffee & Tea Break*
10:15 - 12:00	**Work in groups**
12:00 - 13:30	*Lunch on your own*
13:30 - 14:30	**Work in groups / Progress reports**
15:00	**Excursion**

- **Thursday, September 26**

09:00 - 09:45	**Erik Waingarten** *Average-Case Sketches*
09:45 - 10:15	*Coffee & Tea Break*
10:15 - 12:00	**Work in groups**
12:00 - 13:30	*Lunch on your own*
13:30 - 14:15	**Sepideh Mahabadi** *Approximate Nearest Neighbor Search and Its Many Variants*
14:15 - 15:30	**Work in groups**
15:30 - 16:00	*Coffee & Tea Break*
16:00 - 17:15	**Work in groups**
17:15 - 18:00	**Group progress reports**
19:00 - 21:00	**Dinner at Restaurant Olive**

- **Friday, September 27**

09:00 - 09:30	**David Woodruff** *A Strong Separation for Adversarially Robust L_0 Estimation for Linear Sketches*
09:30 - 10:00	*Coffee Break*
10:00 - 12:00	**Work in groups**
12:00 - 12:30	**Final group reports and formal closing of workshop**
12:30 - 13:30	*Departure*

All plenary sessions take place at the lecture hall (Room 0.109) of the b-it building
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