DIMAP Workshop on Advances in Modern Graph Algorithms, Venice
April 8-11, 2019

Day 1, Monday, April 8

0945 - 1000: **Coffee and Welcome**.

1000 - 1045: *Distributed Exact Shortest Paths Algorithm in Sublinear Time*,
       Michael Elkin.

1045 - 1120: *A Tale of 3 Matrices*,
       Keren Censor-Hillel.

1120 - 1140: **Coffee Break**.

1140 - 1215: *Triangle Enumeration in Distributed Networks*,
       Seth Pettie.

1215 - 1300: *Distributed Shortest Paths, Exactly*,
       Danupon Nanongkai.

1300 - 1500: **Lunch**.

1500 - 1545: *Approximating APSP without Scaling*,
       Karl Bringmann.

1545 - 1630: *Counting (with) homomorphisms*,
       Radu Curticapean.

1630 - 1705: *Some Connections Between the Conjectures in Fine-Grained Complexity*,
       Amir Abboud.

1705 - :   *Research discussions*.

2000:   **Dinner, Alla Madonna**.

Day 2, Tuesday, April 9

1000 - 1035: *Improved Approximation for Tree Augmentation: Saving by Rewiring,*
Fabrizio Grandoni.

1035 - 1110: *Distributed Connectivity and a New Sampling Lemma,*
Valerie King.

1110 - 1140: **Coffee Break**.

1140 - 1215: *Longest Cycle Above Degeneracy,*
Fedor Fomin.

1215 - 1250: *Higher Connectivity in Dynamic Graphs,*
Eva Rotenberg.

1300 - 1500: **Lunch**.

1500 - 1545: *Near-Optimal Approximate Decremental All Pairs Shortest Paths,*
Shiri Chechik.

1545 - 1620: *Planar Diameter via Metric Compression,*
Merav Parter.

1620 - 1630: **Coffee Break**.

1630 - 1800: *Open problem session*.

1800: **Reception**.

Day 3, Wednesday, April 10

1000 - 1045: *Online Algorithms via Projections*,
   Seffi Naor.

1045 - 1120: *Recent Advances in Massive Parallel Algorithms for Matchings and Vertex Cover*,
   Krzysztof Onak.

1120 - 1140: **Coffee Break**.

1140 - 1215: *On Solving Linear Systems in Sublinear Time*,
   Robert Krauthgamer.

1215 - 1300: *Set Cover and Vertex Cover with Delay*,
   Yossi Azar.

1300 - 1500: **Lunch**.

1500 - 1545: *Approximate Matchings in Massive Graphs via Local Structure*,
   Cliff Stein.

1545 - 1620: *$(1 + \epsilon)$-Approximate Incremental Matching in Constant Amortized Update Time*
   Chris Schwiegelshohn.

1620 - :   *Research discussions*.

2000:   **Dinner, Laguna Libre**.

Day 4, Thursday, April 11

0930 - 1015: *Dynamic Primal-dual Algorithms for Maximum Matching,*
Sayan Bhattacharya.

1015 - 1050: *Fully Dynamic Maximal Independent Set with Sublinear Update Time,*
Shay Solomon.

1050 - 1120: **Coffee Break**.

1120 - 1155: *Breaking Quadratic Time for Small Vertex Connectivity,*
Thatchaphol Saranurak.

1155 - 1240: *Lossy Kernels for some Connected Deletion Problems,*
Ramanujan Sridharan.

1240 - 1250: *Concluding remarks and end of workshop.*

1300 - 1500: **Lunch**.