

subgraphs. This event is sponsored by the Combinatorial Structures and Processes (CoSP) project led by Charles University with funding from the EU's Horizon 2020 program.

Between the CoSP Workshop and the CCC Conference lies the DIMACS Day of Complexity Tutorials. It features two half-day tutorials on topics that are thought to be especially exciting and relevant for the CCC community. In the morning, Mika Göös (IAS) discusses the use of lifting theorems to translate lower bounds for simple models of computation (such as decision trees) to lower bounds for more powerful models (such as communication protocols). In the afternoon, Omer Reingold (Stanford) talks about research that endeavors to show that randomized algorithms are not much more powerful than deterministic algorithms. In particular, he discusses recent progress toward showing that problems solvable by a randomized space-bounded algorithm are also solvable by a deterministic algorithm that only uses a constant factor more space (where space refers to memory). The tutorials will be targeted toward postdocs, graduate students, advanced undergraduates with prior work in complexity, or others who would like a cohesive introduction to the topics.

Presentations from the CoSP Workshop and the Day of Complexity Tutorials, as well as the two invited presentations at CCC will be videotaped and posted on the DIMACS YouTube channel.

These events are associated with the DIMACS Special Focus on Lower Bounds in Computational Complexity. To receive announcements about other events in the special focus, you can join the special focus mailing list.

Related Links:

- Computational Complexity Conference: <https://computationalcomplexity.org/>
- DIMACS Day of Complexity Tutorials: <http://dimacs.rutgers.edu/events/details?eID=971>
- CoSP Workshop and School on Algorithms and Complexity: <http://dimacs.rutgers.edu/events/details?eID=1197>
- Special Focus on Lower Bounds in Computational Complexity: <http://dimacs.rutgers.edu/programs/SF/sf-lowerbounds/>