



# ICALP 2023

## Tuesday, July 11, 2023

### Track A-1: Efficient algorithms (+ parameterized complexity) - Seminar Room 1+2 (10:30 AM - 12:30 PM)

-Conveners: Hans Bodlaender

time	[id] title	presenter
10:30 AM	[4] Approximating Long Cycle Above Dirac's Guarantee	SIMONOV, Kirill
10:55 AM	[5] Breaking the All Subsets Barrier for Min $k$ -Cut	SURIANARAYANAN, Vaishali
11:20 AM	[6] Compound Logics for Modification Problems	STAMOULIS, Giannos
11:45 AM	[7] Nearly-Linear Time LP Solvers and Rounding Algorithms for Scheduling Problems	LI, Shi
12:10 PM	[11] New Partitioning Techniques and Faster Algorithms for Approximate Interval Scheduling	COMPTON, Spencer

### Track A-1: AGT/Social choice - Seminar Room 1+2 (3:30 PM - 5:05 PM)

-Conveners: Anna Karlin

time	[id] title	presenter
3:30 PM	[32] Low Sample Complexity Participatory Budgeting	SARMASARKAR, Sahasrajit
3:55 PM	[33] Approximation Algorithms for Envy-Free Cake Division with Connected Pieces	KULKARNI, Pooja
4:20 PM	[34] Truthful Matching with Online Items and Offline Agents	MAURAS, Simon
4:45 PM	[35] Stable Matching: Choosing Which Proposals to Make	AGARWAL, Ishan

# Wednesday, July 12, 2023

## Track A-1: Approximation Algorithms - Seminar Room 1+2 (10:30 AM - 12:30 PM)

-Conveners: Fabrizio Grandoni

time	[id] title	presenter
10:30 AM	[52] Finding Almost Tight Witness Trees	HYATT-DENESIK, Dylan
10:55 AM	[53] Matching Augmentation via Simultaneous Contractions	HOMMELSHEIM, Felix
11:20 AM	[54] Improved Approximation Algorithms by Generalizing the Primal-Dual Method Beyond Uncrossable Functions	BANSAL, Ishan
11:45 AM	[55] An $O(\log k)$ -Approximation for Directed Steiner Tree in Planar Graphs	MOUSAVI, Ramin
12:10 PM	[56] A Tight $(1.5+\epsilon)$ -Approximation for Unsplittable Capacitated Vehicle Routing on Trees	ZHOU, Hang

# Thursday, July 13, 2023

## **Track A-1: Quantum computing - Seminar Room 1+2 (10:30 AM - 12:30 PM)**

-Conveners: Alexandru Gheorghiu

time	[id] title	presenter
10:30 AM	[77] Quantum Algorithms and Lower Bounds for Linear Regression with Norm Constraints	DE WOLF, Ronald
10:55 AM	[78] Simulating Markovian open quantum systems using higher-order series expansion	WANG, Chunhao
11:20 AM	[79] Improved Product-state Approximation Algorithms for Quantum Local Hamiltonians	BERGAMASCHI, Thiago
11:45 AM	[80] Improved Hardness Results for the Guided Local Hamiltonian Problem	HAYAKAWA, Ryu
12:10 PM	[81] Cumulative Memory Lower Bounds for Randomized and Quantum Computation	KORNERUP, Niels

## **Track A-1: Dynamic algorithms - Seminar Room 1+2 (4:00 PM - 5:10 PM)**

-Conveners: Thatchaphol Saranurak

time	[id] title	presenter
4:00 PM	[102] Optimal Decremental Connectivity in Non-Sparse Graphs	KARCZMARZ, Adam
4:25 PM	[103] Dynamic Averaging Load Balancing on Arbitrary Graphs	HINTZE, Lukas
4:50 PM	[104] Fully Dynamic Shortest Paths and Reachability in Sparse Digraphs	KARCZMARZ, Adam

# Friday, July 14, 2023

## Track A-1: Efficient algorithms - Seminar Room 1+2 (10:30 AM - 12:30 PM)

-Conveners: Rasmus Kyng

time	[id] title	presenter
10:30 AM	[114] Fast approximation of search trees on trees with centroid trees	BERENDSOHN, Benjamin Aram KOZMA, Laszlo
10:55 AM	[115] Faster Matroid Partition Algorithms	TERAO, Tatsuya
11:20 AM	[116] Faster submodular maximization for several classes of matroids	ZHENG, Da Wei
11:45 AM	[117] On computing the vertex connectivity of 1-plane graphs	MURALI, Karthik
12:10 PM	[118] An Efficient Algorithm for All-Pairs Bounded Edge Connectivity	AKMAL, Shyan