Conference «Problems in Theoretical Computer Science»

Program

18.12.2015 – 20.12.2015,
Moscow, Russia,
Kochnovsky Proezd, 3

Time	Topic	Speaker	Room
Friday, December 18			
12:10 - 12:50	On aperiodic tilings of the plane by polygons	Nikolay Vereshchagin, HSE	509
12:50 - 13:20	On Slepian - Wolf theorem with interaction	Alexander Kozachinsky, MSU	509
13:20 - 14:30	Lunch		
14:30 - 15:00	Algorithms for Solving Tropical Linear Systems	Alex Davydow, SPbAU	311
15:10 - 15:50	The complexity of multiset rewriting with dense time	Andre Scedrov, HSE	509
15:50 - 16:20	Coffee break		
16:20 - 16:50	Algorithmic statistics and prediction	Alexey Milovanov, MSU	509
16:50 - 17:20	Algorithmic randomness deficiencies	Gleb Novikov, MSU	509
17:20 - 17:50	Coffee break		
17:50 - 18:30	On the AC^0 Complexity of Subgraph Isomorphism	Alexander Razborov, Chicago University	509
Saturday, December 19			
10:50 - 11:20	The computational difficulty of data compression and the power of a few random bits	Bruno Bauwens, HSE	311
11:20 - 11:50	DCFL-Lemma with and without Kolmogorov Complexity	Alexander Rubtsov, HSE	311
11:50 - 12:20	Coffee break		
12:20 - 13:00	Association rules and lattices of closed sets: A complexity-theoretic perspective	Sergei Kuznetsov, HSE	622
13:00 - 13:30	Buffer Management Algorithms for Packets with	Sergey Nikolenko, HSE	622

	Heterogeneous Processing		
13:30 - 15:00	Lunch		
15:00 - 15:30	Weighted Gate Elimination: Boolean Dispersers for Quadratic Varieties Imply Improved Circuit Lower Bounds	Alexander Kulikov, PDMI	622
15:30 - 16:00	A new lower bound on the circuit size of explicitly defined Boolean functions	Edward Hirsch, PDMI	622
16:00-16:30	Coffee break		
16:30-17:00	Common framework for circuit size lower bounds and #Circuit-SAT upper bounds.	Alexander Smal, PDMI	622
17:00-17:30	Boolean Circuits and Ontology Based Data Access	Vladimir Podolskii, HSE	622
17:30 - 18:00	Coffee break		
18:00 - 18:30	Lower bounds for edge completion problems	Ivan Bliznets, PDMI	622
Sunday, December 20			
11:00 - 11:30	Counting of perfect matchings: Izumi-Wadayama approach.	Mikhail Vyalyi, HSE	509
11:30 - 12:00	Linear classification of even and odd permutation matrices: lower bounds	Alina Babenko, MIPT	509
12:00 - 12:30	Coffee break		
12:30 - 13:10	The doubly compressed sensing, Ulam's problem on searching with a lie and coding theory	Grigory Kabatiansky, HSE	509
13:10 - 13:40	Digital fingerprinting codes for multimedia	Elena Egorova, HSE	509
13:40 - 15:00	Lunch		
15:00 - 15:30	Lower bounds for splittings by linear combinations.	Dmitry Itsykson, PDMI	509
15:30 - 16:00	Complexity of distributions and average-case hardness	Dmitry Sokolov, PDMI	509
16:00 - 16:30	Coffee break		
16:00 - 16:30	Heuristic time hierarchies via hierarchies for sampling distributions	Alexander Knop, PDMI	509
16:30 - 17:00	Complexity of spanning tree construction by distributed protocols	Ilnur Khuziev, MIPT	509