

Fifth Russian Finnish Symposium on Discrete Mathematics (RuFiDiM-2019)

19-22 May 2019, Veliky Novgorod, Russia
Yaroslav-the-Wise Novgorod State University, School of Humanities

Program

<i>19 May</i>		
8.30-9.00	Registration	Antonovo, room 1201
9.00-9.10	Opening remark	
9.10-10.00	<i>Invited lecture</i> Fedor Petrov (St. Petersburg State University) Group rings in combinatorics	Antonovo, room 1201
10.00-10.30	Marina Leri, Yuri Pavlov On the modularity of configuration graphs	Antonovo, room 1201
10.30-11.00	Vladimir V. Mazalov Game-Theoretic method for analysis of communication networks	Antonovo, room 1201
11.00-11.30	<i>Coffee break</i>	
11.30-12.00	Anna Rettieva Stable Coalitions in Dynamic Multicriteria Games	Antonovo, room 1201
12.00-12.30	Anna Ivashko , Vladimir Mazalov, Tatiana Seregina n-person Optimal Stopping Game with Full Information	Antonovo, room 1201
12.30-13.00	Alexander Kolmogorov Learning Automata with Growing Memory	Antonovo, room 1201
13.00-13.30	Sokolovskii Nikita The linear complexity of new generalized cyclotomic binary sequences over finite field	Antonovo, room 1201
13.30	<i>Lunch</i>	Antonovo, university canteen
	<i>Excursion to the Novgorod Kremlin, Bus at 14:45 from Park Inn</i>	
<i>Conference dinner at 18:30</i>		
<i>20 May</i>		
9.00-11.00	<i>Grand opening of International Cooperation Week in NovSU</i>	
11.00-11.30	<i>Coffee break</i>	
11.30-12.20	<i>Invited lecture</i> Ivan Dynnikov (V.A. Steklov Mathematical Institute of Russian Academy of Science) A fast algorithm for counting intersections of normal curves on a	Antonovo, room 1201

	triangulated surface and the word problem for the mapping class groups	
12.20-12.50	Vladimir A. Emelichev, Yury V. Nikulin Stability analysis of extremum solutions in multicriteria integer linear programming	Antonovo, room 1201
12.50-13.40	<i>Invited lecture</i> Ilkka Törmä (University of Turku) (delivered by Pierre Guillon) Physical Universality in Cellular Automata, Turing Machines and Beyond	Antonovo, room 1201
13.40-14.40	<i>Lunch</i>	Antonovo, university canteen
14.40-15.10	Joonatan Jalonen , Jarkko Kari The Conjugacy Problem is Undecidable for Two-Dimensional Reversible Cellular Automata	Antonovo, room 1201
15.10-15.40	Pierre Arnoux, Julien Cassaigne, Sébastien-Simon Ferenczi , Pascal Hubert Arnoux-Rauzy interval exchange transformations	Antonovo, room 1201
15.40-16.10	Kamil Khadiev , Aliya Khadieva, Yassine Hamoudi Quantum Streaming Algorithm with Logarithmic Memory and Advice for Online Disjointness Problem	Antonovo, room 1201
16.10-16.40	<i>Coffee break</i>	
16.40-17.10	Alexander Okhotin, Ilya Olkhovsky LL(1) linear grammars are as powerful as LL(k) linear grammars	Antonovo, room 1201
19.00	Cultural enrichment event: Concert of Youth Philharmonic Orchestra from Naples (Italy)	Philharmonic Hall, Kremlin
21 May		
09.00-09.50	<i>Invited lecture</i> Reino Niskanen (University of Oxford) The geography of multitape automata	Antonovo, room 1201
09.50-10.20	Svetlana N. Selezneva, Marina V. Melnik Colorings of pseudo-regular graphs	Antonovo, room 1201
10.20-10.50	Ville Junnila, Tero Laihonen, Tuomo Lehtilä New results on codes for location in graphs	Antonovo, room 1201
10.50-11.20	Dmitri Karpov On the Graph Reconstruction Conjecture	1201
11.20-11.50	<i>Coffee break</i>	
11.50-12.20	Anni Hakanen , Ville Junnila, Tero Laihonen, Maria Luz Puertas On solid-resolving sets in graphs	Antonovo, room 1201
12.20-12.50	Alexandr Valyuzhenich Lower bound for the size of a 1-perfect bitrade of the Hamming graph	Antonovo, room 1201

12.50-13.20	Aleksei Latyshev , K. Kokhas For which graphs the sages can guess a color of at least one hat	Antonovo, room 1201
13.20-14.30	Lunch	Antonovo, university canteen
14.30-15.20	<i>Invited lecture</i> Lukas Fleischer (Universität Stuttgart) Decision Problems for Finite Semigroups	Antonovo, room 1201
15.20-15.50	Jarkko Kari , Etienne Moutot Low complexity elements of algebraic subshifts	Antonovo, room 1201
15.50-16.20	Fabian Frei , Juraj Hromkovic, Juhani Karhumäki Roots and Powers in Regular Languages	Antonovo, room 1201
16.20-16.50	<i>Coffee break</i>	
16.50-17.20	Tatiana Jajcayova Representations of permutation groups and semigroups on combinatorial structures	Antonovo, room 1201
17.20-17.50	Markus Whiteland On Equations over Monoids Defined by Generalizations of Abelian Equivalence.	Antonovo, room 1201
22 May		
9.00-9.50	<i>Invited lecture</i> Michael Rao (Chargé de recherche CNRS au LIP, ENS Lyon) Avoiding two consecutive blocks of same size and same sum over $\mathbb{Z}^2$	Antonovo, room 1201
9.50-10.20	Pierre Guillon , Emmanuel Jeandel, Jarkko Kari, Pascal Vanier Undecidable word problem in subshift automorphism groups	Antonovo, room 1201
10.20-10.50	Teemu Pirttimäki Kolmogorov quotients	Antonovo, room 1201
10.50-11.20	<i>Coffee break</i>	
11.20-11.50	Giuseppe Pirillo From Fibonacci word to Fibonacci numbers	Antonovo, room 1201
11.50-12.20	Vladimir Edemskiy Note about the linear complexity of new generalized cyclotomic binary sequences of period p^n	Antonovo, room 1201
	<i>Departure</i>	