

**Third Russian Finnish Symposium on Discrete Mathematics (RuFiDiM-2014)**  
15-18 September 2014, Petrozavodsk, Russia

**Program**

<b>September 14: Arrival day.</b>	
<b>September 15: Working day.</b>	
8.30-9.00	Registration
9.00	Opening remark
9.15-10.05	<i>Invited lecture</i> <b>Alexander Zvonkin</b> (University of Bordeaux, France) On polynomials of Birch-Chowla-Hall-Schinzel-Davenport-Stothers-Zannier-Beukers-Stewart and weighted plane trees
10.05-10.40	<i>Contributed talk</i> <b>Sebastien Ferenczi, Luca Q. Zamboni</b> Clustering words and interval exchanges
10.40-11.15	<i>Contributed talk</i> <b>Vladimir Edemskiy</b> About the linear complexity of sequences over the finite field of four elements
11.15-11.30	<i>Coffee break</i>
11.30-12.05	<i>Contributed talk</i> <b>Joseph Romanovsky, Dmitry Eibozhenko</b> Dynamic Programming Usage in Steiner Problem in Graphs
12.05-12.30	<i>Short Communication</i> <b>Danila Cherkashin</b> On property B of hypergraphs
12.30-14.00	<i>Lunch</i>
14.00-14.35	<i>Contributed talk</i> <b>Ville Junnila, Tero Laihonon</b> Minimum Number of Input Clues in an Associative Memory
14.35-15.10	<i>Contributed talk</i> <b>Dimitry Ananichev, Vladimir Gusev</b> Approximation of reset thresholds with greedy algorithms

15.10-15.35	<i>Short Communication</i> <b>Marina Maslennikova, Emanuele Rodaro</b> Principal (Left) Ideal Languages, Constants and Synchronizing Automata
15.35-16.00	<i>Coffee break</i>
16.00-16.35	<i>Contributed talk</i> <b>Irina Cheplyukova</b> Limit theorems for the number of multiple edges in the configuration graph
16.35-17.10	<i>Contributed talk</i> <b>Dmitry Itsykson, Mikhail Slabodkin, Dmitry Sokolov</b> Resolution complexity of perfect matching principles for sparse graphs
17.10-17.45	<i>Contributed talk</i> <b>Svetlana Selezneva</b> On the Multiplicative Complexity of Some Boolean Functions
17.45-18.10	<i>Short Communication</i> <b>Denis Dublennykh</b> Descriptive complexity of additive shift of regular language
19.00	<i>Welcome party</i>
<b>September 16: Working day.</b>	
9.00-9.50	<i>Invited lecture</i> <b>Raigorodskii Andrei</b> (Moscow State University, Russia) Combinatorial geometry and coding theory
9.50-10.25	<i>Contributed talk</i> <b>Ilya Ponomarenko</b> Coset closure of a circulant S-ring and schurity problem
10.25-10.50	<i>Short Communication</i> <b>Marina Maslennikova</b> Complexity of checking whether two automata are synchronized by the same language
10.50-11.10	<i>Coffee break</i>
11.10-11.45	<i>Contributed talk</i> <b>Vesa Halava, Tero Harju, Reino Niskanen, Igor Potapov</b> Undecidability for integer weighted Buchi automata and Robot Games with states
11.45-12.20	<i>Contributed talk</i> <b>Andrei Kolchin, Valentin Kolchin, Natalia Enatskaya</b> Allocations of particles to cells and partitions of a number

12.20-12.45	<p><i>Short Communication</i></p> <p><b>Pavel Tarasov</b>  Several Necessary Conditions For Uniformity of Finite Systems of Many-valued Logic</p>
12.45-14.00	<p><i>Lunch</i></p>
14.00-14.35	<p><i>Contributed talk</i></p> <p><b>Takashi Matsuhisa</b>  Subgroup Nash Equilibrium and Communication for S5n-Knowledge</p>
14.35-15.10	<p><i>Contributed talk</i></p> <p><b>Vladimir Mazalov, Ludmila Truhina</b>  Generating functions and cooperation in communication networks</p>
15.10-15.35	<p><i>Short Communication</i></p> <p><b>Alexandr Valyuzhenich</b>  On connection between permutation complexity and factor complexity of infinite words</p>
15.35-16.00	<p><i>Short Communication</i></p> <p><b>Gleb Nenashev</b>  On Heawood-type problems for maps with tangencies</p>
16.00-16.20	<p><i>Coffee break</i></p>
16.20-16.55	<p><i>Contributed talk</i></p> <p><b>Marina Leri, Yuri Pavlov</b>  Forest fire models on configuration random graphs</p>
16.55-17.30	<p><i>Contributed talk</i></p> <p><b>Dmitri Karpov</b>  On vertices of degree <math>k</math> in minimal <math>k</math>-connected graphs</p>
17.30-18.05	<p><i>Contributed talk</i></p> <p><b>Anna Ivashko, Elena Konovalchikova</b>  Discrete time two-sided mate choice problem with age preferences</p>
18.05-18.30	<p><i>Short Communication</i></p> <p><b>Elena Feklistova, Yuri Pavlov</b>  On the behaviour of an edge number in a power-law random graph near a critical point</p>
<p><b>September 17: Working day. Excursions.</b></p>	
9.00-9.50	<p><i>Invited lecture</i></p> <p><b>Jarkko Kari</b> (University of Turku, Finland)  Piecewise affine functions, Sturmian sequences and aperiodic tilings</p>

9.50-10.25	<i>Contributed talk</i> <b>Aleksi Saarela</b> Equivalence Relations Defined by Numbers of Occurrences of Factors
10.25-11.00	<i>Contributed talk</i> <b>Alexei Pastor</b> About vertices of degree 6 of C3-critical minimal 6-connected graph
<i>Excursion to Kizhi island</i>	
19.00	<i>Conference dinner</i>
<b>September 18: Working day. Departure day.</b>	
9.00-9.50	<i>Invited lecture</i> <b>Julien Cassaigne</b> (Institut de mathématiques de Marseille, Marseille, France) Decomposition of a language of factors into sets of bounded complexity
9.50-10.25	<i>Contributed talk</i> <b>Andrei Kolchin</b> On application of the probabilistic method to analysing the partitions of an integer
10.25-11.00	<i>Contributed talk</i> <b>Elena Khvorostyanskaya</b> On the number of trees of a given size in a conditional Poisson Galton-Watson forest
11.00-11.25	<i>Short Communication</i> <b>Andrew Drac</b> Paged representation of stacks in single-level memory
11.25-11.45	<i>Coffee break</i>
11.45-12.20	<i>Contributed talk</i> <b>Mikhail Rubinchik, Arseny M. Shur</b> On the Number of Distinct Subpalindromes in Words
12.20-12.55	<i>Contributed talk</i> <b>Anna Rettieva</b> Asymmetry in Discrete-Time Bioresource Management Problem
12.55-13.30	<i>Contributed talk</i> <b>Dmitry Korzun</b>

13.30-13.55	<p>On Relation of Linear Diophantine Equation Systems with Commutative Grammars</p> <p><i>Short Communication</i></p> <p><b>Eugene Barkovsky</b></p> <p>Some models of representation of two parallel FIFO-queues and their optimal control</p>
<i>Departure</i>	