

X International Petrozavodsk conference “Probabilistic methods in discrete mathematics”

Petrozavodsk, May 22 – 26, 2019

List of accepted presentations

1. **Aksenova Elena A., Sokolov Andrey V. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
On optimal control of a parallel priority queue
2. **Alekseev Aleksey K. (Moscow Institute of Physics and Technology, Dolgoprudny)**
Aposterior estimate of the discretization error on the solution ensemble and the effect of concentration measure
3. **Alexeev Nikita V. (ITMO University, St. Petersburg)**
Number of trees in a random graph and Fuss-Catalan numbers
4. **Berezin Timur V. (St. Petersburg State University, Saint-Petersburg)**
Embeddings of graphs with rotations in orientable surfaces
5. **Borodina Alexandra V. (IAMR Karelian Research Centre RAS, Petrozavodsk), Avrachenkov Konstantin E. (INRIA Sophia Antipolis, France), Necheporenko Nikita A. (Petrozavodsk State University, Petrozavodsk)**
Splitting method for simulation in large graphs
6. **Cheplyukova Irina A. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
On maximum vertex degree in the configuration model
7. **Cherkashin Danila D. (Moscow Institute of Physics and Technology, Dolgoprudny)**
Inducibility of paths in hypergraph colorings
8. **Chernov Ilya A., Ivashko Evgeny E. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
Optimal search with recognition error probability
9. **Chuprunov Aleksey N., Chickrin D.E., Kokunin P.A. (Kazan Federal University, Kazan)**
Limit theorems in non-homogenous generalized allocation scheme
10. **Davydov Yuri A., Rotar V. (St. Petersburg State University, Saint-Petersburg)**
Remarks on asymptotical independence
11. **Demidovich Yury A. (Moscow Institute of Physics and Technology, Dolgoprudny)**
Property B_k -problem for uniform simple hypergraphs
12. **Efimov Dmitry B. (Komi Science Centre, Ural Branch RAS, Syktyvkar)**
Probabilistic method for estimating hafnian by the example of one class of Toeplitz matrices
13. **Gusev Vasily V. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
Two-step pricing game on a graph
14. **Ivanov Alexander V. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
On approximation of probability measures by measures with finite support
15. **Ivashko Anna A. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
Best-Choice game with incomplete information and two stops
16. **Kabatyansky Grigory A., Egorova E.E. (Skoltech, Moscow)**
Colored cover-free set systems and their generalization

17. **Katona Gyula O.H. (Rényi Alfréd Institute of Mathematics Hungarian Academy of Sciences, Budapest)**
The domination number of the graph defined by two levels of the n -cube
18. **Kharin Yuri S. (Belarusian State University, Minsk)**
Probabilistic-statistical analysis of discrete time series: models and methods
19. **Khvorostyanskaya Elena V. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
On second degrees of configuration graph vertices
20. **Kolnogorov Alexander V. (Novgorod State University, Veliky Novgorod)**
Universal strategies in one-armed bandit problem and optimization of big data processing
21. **Kolchin Andrei V. (MADI State Technical University, Moscow)**
Some aspects of the development of a generalized allocation scheme
22. **Kruglik Stanislav A. (Skoltech, Moscow)**
On secret sharing schemes in distributed storage systems
23. **Kruglov Vasiliy I., Mikhailov Vladimir G. (Steklov Mathematical Institute RAS, Moscow)**
Inequalities for the rank of a random binary matrix with independent rows of given weights
24. **Leri Marina M. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
Some structure characteristics of power-law configuration graphs
25. **Mazalov Vladimir V. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
Game-theoretic analysis of communication networks
26. **Moiseeva Svetlana P., Bobkova O.S., Nazarov A.A. (Tomsk State University, Tomsk)**
Study of the MMPP flow in conditions of extremely frequent and extremely rare state changes
27. **Morozova Taisia E. (Petrozavodsk State University, Petrozavodsk), Morozov Evsey V. (IAMR Karelian Research Centre RAS, Petrozavodsk), Ioannis Dimitriou (University of Patras, Greece)**
A multiclass retrial system with coupled orbits and mixed service interruptions
28. **Moskin Nikolay D., Rogov Aleksandr A. (Petrozavodsk State University, Petrozavodsk)**
Attributes of distribution of vertex degrees of graph-theoretic models of texts
29. **Nekrasova Ruslana S. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
Multi-class model with general retrials: stability analysis by simulation
30. **Nikitina Natalia N. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
A potential in the congestion game for virtual drug screening based on Desktop Grid
31. **Nikitina Natalia N., Mazalov Vladimir V., Pechnikov Andrey A. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
On communities in communication graphs
32. **Pavlov Yuri L. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
On clustering coefficient of configuration graphs
33. **Polyanskii Alexandr A., Nilov F.K. (Moscow Institute of Physics and Technology, Dolgoprudny)**
Sylvester-Gallai-type theorems for vectors
34. **Popova Svetlana N. (Moscow Institute of Physics and Technology, Dolgoprudny)**
Spectra for bounded quantifier depth first-order formulae for random hypergraphs

35. **Raigorodskii Andrei M. (Moscow Institute of Physics and Technology, Dolgoprudny)**
Colorings of random subgraphs
36. **Rettieva Anna N. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
Dynamic multicriteria games with random horizons
37. **Rumyantsev Alexander S. (IAMR Karelian Research Centre RAS, Petrozavodsk), Garimella Rama Murthy (Mahindra Ecole Centrale, Hyderabad, India)**
Steady-state analysis of cognitive radio model by state space expansion
38. **Sali Attila (Rényi Alfréd Institute of Mathematics Hungarian Academy of Sciences, Budapest), Boyvalenkov Peter (Institute of Mathematics and Informatics Bulgarian Academy of Sciences, Sofia)**
New bounds on Armstrong codes
39. **Savelov Maksim P. (Moscow State University + Moscow Institute of Physics and Technology, Moscow + Dolgoprudny)**
The law of large numbers for the number of non-appeared non-intersecting chains in Bernoulli scheme
40. **Savelyev Lev Ya. (Novosibirsk State University, Novosibirsk)**
Structural and stochastic properties of special graphs
41. **Semchankau Aliaksei S. (Moscow State University, Moscow)**
Multiplicative graphs and their application to the equation $n - \varphi(n) = c$
42. **Semenov Alexander S. (Moscow State University, Moscow), Shabanov Dmitry A. (Moscow Institute of Physics and Technology, Dolgoprudny)**
On the weak chromatic number of random hypergraphs
43. **Serov Aleksandr A., Zubkov Andrey M. (Steklov Mathematical Institute RAS, Moscow)**
The power of a subset image in composition of random mappings of a finite set
44. **Simonovits Miklós (Rényi Alfréd Institute of Mathematics Hungarian Academy of Sciences, Budapest)**
Stability methods in extremal graph theory
45. **Shabanov Dmitry A. (Moscow Institute of Physics and Technology, Dolgoprudny)**
Probability thresholds for coloring properties of random graphs and hypergraphs
46. **Skopenkov Arkadiy B. (Moscow Institute of Physics and Technology + Moscow State University, Dolgoprudny + Moscow)**
Invariants of graph drawings in the plane
47. **Sokolov Andrey V. (IAMR Karelian Research Centre RAS, Petrozavodsk), Lazutina Anna A. (Moscow State University, Moscow)**
On optimal control of dequeues in two-level memory
48. **Stafeev Sergey V. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
Parametric identifiability of structural equation models with latent variables
49. **Tikhomirov Alexandre N. (Komi Science Centre of Ural Branch RAS, Syktyvkar)**
Local limit theorems for sample covariance matrices
50. **Vlasova Ksenia A., Kornikov Vladimir V. (St. Petersburg State University, Saint-Petersburg)**
The study of the Neyman type A, B and C distribution modality zones
51. **Voitishek Anton V., Bulgakova Tatiana E. (ICM&MG of Siberian Branch RAS + Novosibirsk State University, Novosibirsk)**
On the use of beta and gamma distributions in numerical randomized models

52. **Yashunsky Alexey D. (Keldysh Institute of Applied Mathematics RAS, Moscow)**
On necessary conditions for the algebraic approximation of random variables on finite sets
53. **Zaporozhets Dmitry N., Kabluchko Zakhar (St Petersburg Department of Steklov Mathematical Institute RAS, Saint-Petersburg)**
Angles of random polyhedra
54. **Zhukova Ksenia A. (IAMR Karelian Research Centre RAS, Petrozavodsk)**
Large deviations in single-server retrial queues
55. **Zubkov Andrei M. (Steklov Mathematical Institute RAS, Moscow)**
Limit theorems connected with algorithms of random elements of groups construction