

**Monday, July 31 (arrival day)**

12.00 – 19.00	<i>Registration</i>
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**Tuesday, August 1**

08.00 – 09.00	<i>Breakfast</i>
08.30 – 09.00	<i>Registration</i>
09.00 – 09.20	<i>Opening</i>
	Plenary Lectures: <b>Chairman O. Khamisov</b>
09.20 – 10.20	<b>O. Burdakov</b> <i>“A reduction of cardinality to complementarity in sparse optimization”</i>
10.20 – 11.20	<b>V. Strusevich</b> <i>“Nonlinear Programming Models of Power-Aware Scheduling and Cloud Computing”</i>
11.20 – 11.40	<i>Break</i>
	Tutorial Lecture: <b>Chairman V. Mazalov</b>
11.40 – 12.20 12.25 – 13.05	<b>E. Nurminski</b> <i>“Sharp Penalty Mapping Approach to Approximate Solution of Variational Inequalities and Discrete-time Lyapunov Theory for Optimization Processes”</i>
13.05 – 15.00	<i>Lunch</i>
	Tutorial Lectures: <b>Chairman A. Kononov</b>
15.00 – 15.40 15.45 – 16.25	<b>M. Khachay</b> <i>“Approximation algorithms for some generalizations of TSP”</i>
16.35 – 17.15 17.20 – 18.00	<b>Yu. Kochetov</b> <i>“Mathematical heuristics for combinatorial optimization problems”</i>
19.00 – 20.00	<i>Supper</i>

**Wednesday, August 2**

08.00 – 09.00	<i>Breakfast</i>
	Plenary Lectures: <b>Chairman Yu. Kochetov</b>
09.00 – 10.00	<b>S. Dempe</b> <i>“Solution of bilevel optimization problems using the KKT approach”</i>
10.00 – 11.00	<b>R. Niedermeier</b> <i>“Multivariate Algorithmics: On Interactions with Heuristics”</i>
11.00 – 11.20	<i>Break</i>
	Tutorial Lecture: <b>Chairman A. Gasnikov</b>
11.20 – 12.00 12.05 – 12.45	<b>V. Mazalov</b> <i>“Networking Games”</i>
13.00 – 14.30	<i>Lunch</i>
	Section Talks

	<b>Section Discrete and Continuous Optimization</b>
	<b>Chairman I. Vasilyev</b>
14.30 – 15.00	<b>A. Strekalovsky</b> <i>“Optimality Conditions for General D.C. Constrained Problem”</i>
15.00 – 15.20	<b>Yen-Shing Tsai, Bertrand Miao-Tsong Lin and Chih-Chun Lo</b> <i>“Bin Covering of Subsets”</i>
15.20 – 15.40	<b>S. Szabo and B. Zavalnij</b> <i>“Evaluating heuristics via search tree size estimation”</i>
15.40 – 16.00	<b>R. van Bevern</b> <i>“A parameterized approximation algorithm for the mixed capacitated arc routing problem: Theory and experiments”</i>
16.00 – 16.10	<i>Break</i>

	<b>Chairman K. Kobylkin</b>
16.10 – 16.30	<b>M. Khachay and K. Neznakhina</b> “Efficient optimal algorithm for the <i>Quasipyramidal GTSP</i> ”
16.30 – 16.50	<b>V. Skarin</b> “On the regularization for improper problems of convex programming”
16.50 – 17.10	<b>A. Kel'manov, S. Khamidullin and V. Khandeev</b> “A Randomized Algorithm for Two-Cluster Partition of a Sequence”
17.10 – 17.30	<b>A. Kononov, M. Kovalyov and Bertrand M.T. Lin</b> “Minimizing machine assignment costs over $\Delta$ -approximate solutions of $P  C_{max}$ ”
17.30 – 17.40	<i>Break</i>
	<b>Chairman V. Skarin</b>
17.40 – 18.00	<b>Yu. Mezentsev</b> “Binary Cuts Algorithm for Mixed Integer Programming Problems”
18.00 – 18.20	<b>P. Borisovsky, A. Ereemeev, S. Hrushev, V. Teplyakov and M. Vorozhtsov</b> “Approximate Solution of Length-Bounded Maximum Multicommodity Flow with Unit Edge-Lengths”
18.20 – 18.40	<b>K. Kobylkin</b> “Approximation algorithms for intersecting straight line segments with equal disks”
18.40 – 19.00	<b>I. Davydov and I. Legkih</b> “A matheuristic for the $(r p)$ -centroid problem under $L1$ metric”

	<b>Section Equilibrium and Bilevel Optimization and Models</b>
	<b>Chairman A. Plyasunov</b>
14.30 – 15.00	<b>V. Vasil'ev</b> “Core allocations in a mixed economy of Arrow-Debreu type”
15.00 – 15.20	<b>Ning-Yao Pai, Yung-Ming Li and Chi-Chun Lo</b> “Quality and Entry Deterrence on Two-sided Market Platform”
15.20 – 15.40	<b>R. Enkhbat and G. Battur</b> “Game Theory Approach to Malfatti's Problem”
15.40 – 16.00	<b>A. Rettieva</b> “Cooperation in Dynamic Multicriteria Games”
16.00 – 16.10	<i>Break</i>
	<b>Chairman I. Bykadorov</b>
16.10 – 16.30	<b>A. Orlov</b> “On a numerical finding of Nash equilibria in random generated hexamatrix games”
16.30 – 16.50	<b>A. Panin and A. Plyasunov</b> “Three-level models of competitive pricing”
16.50 – 17.10	<b>I. Ziegler</b> “Analysis and Solving the Problems of Production Groups Formation”
17.10 – 17.30	<b>N. Aizenberg, I. Bykadorov and S. Kokovin</b> “Welfare impact of bilateral tariffs under monopolistic competition”
17.30 – 17.40	<i>Break</i>
	<b>Chairman T. Gruzdeva</b>
17.40 – 18.00	<b>I. Bykadorov</b> “Monopolistic Competition Model with Different Consumer Utility Levels”
18.00 – 18.20	<b>I. Bykadorov, A. Ellero, S. Funari, S. Kokovin and P. Molchanov</b> “Harmful Pro-Competitive Effects of Trade under Classical Monopolistic Competition”
18.20 – 18.40	<b>A. Melnikov and V. Beresnev</b> “Exact method for the competitive facility location problem with quantile criterion”

	<b>Section Optimal Control and Applications</b>
	<b>Chairman A. Antipin</b>
14.30 – 14.50	<b>V. Dykhta</b> <i>“Feedback Minimum Principle for Optimal Control Problems with Terminal Constraints”</i>
14.50 – 15.10	<b>V. Dykhta, O. Samsonyuk and S. Sorokin</b> <i>“Relaxational Methods with Feedback Controls for Discrete and Impulsive Optimal Control Problems”</i>
15.10 – 15.30	<b>P. Shcherbakov</b> <i>“Estimates of Transients in Discrete Time Linear Systems”</i>
15.30 – 15.50	<b>V. Srochko and V. Antonik</b> <i>“Sufficient optimality conditions for extremal controls in optimal control problems”</i>
15.50 – 16.10	<b>V. Azanov and Yu. Kan</b> <i>“Optimal control for discrete-time stochastic systems w.r.t. the probabilistic performance index”</i>
16.10 – 16.25	<i>Break</i>
	<b>Chairman V. Dykhta</b>
16.25 – 16.45	<b>E. Khoroshilova</b> <i>“Minimizing a sensitivity function as boundary-value problem of terminal control”</i>
16.45 – 17.05	<b>E. Gryazina</b> <i>“Recent advances in power systems stability analysis”</i>
17.05 – 17.25	<b>E. Gryazina</b> <i>“Semidefinite relaxations for the optimal power flow: robust or fragile?”</i>
17.25 – 17.45	<b>Oleg O. Khamisov</b> <i>“Estimation of Frequency Deviations in Power Network with Primary Frequency Control”</i>
17.45 – 18.00	<i>Break</i>
	<b>Chairman V. Srochko</b>
18.00 – 18.20	<b>A. Gasnikov, S. Kabanikhin, Ahmed Nafea Mohammed and M. Shishlenin</b> <i>“Convex optimization in Hilbert space with applications to ill-posed problems”</i>
18.20 – 18.40	<b>B. Polyak and A. Tremba</b> <i>“Norm variability in Newton method for underdetermined systems of equations”</i>
18.40 – 19.00	<b>A. Strekalovsky and M. Yanulevich</b> <i>“On optimization approach to solving nonlinear equation systems”</i>
19.00 – 20.00	<i>Supper</i>

### Thursday, August 3

08.00 – 09.00	<i>Breakfast</i>
	Plenary Lectures: <b>Chairman E. Nurminski</b>
09.00 – 10.00	<b>A. Nazin</b> <i>“Algorithms of Inertial Mirror Descent in Convex Optimization Problems”</i>
10.00 – 11.00	<b>A. Vasin</b> <i>“Energy markets: optimization of transport infrastructure”</i>
11.00 – 11.20	<i>Break</i>
	Tutorial Lecture: <b>Chairman M. Khachay</b>
11.20 – 12.00	<b>A. Gasnikov and A. Nedic</b>
12.05 – 12.45	<i>“Decentralized distributed optimization”</i>
13.00 – 14.30	<i>Lunch</i>
	Plenary Lectures: <b>Chairman A. Strekalovsky</b>
14.30 – 15.30	<b>A. Antipin</b> <i>“Saddle-point methods for solving terminal control problems with phase constraints”</i>
15.30 – 16.30	<b>A. Kibzun</b> <i>“Measurability of Optimal Strategies in the Stochastic Optimal Control Problem with Discrete Time”</i>
20.00 – 23.00	<i>School-Seminar Dinner</i>

**Friday, August 4**

08.00 – 09.00	<i>Breakfast</i>
	Tutorial Lecture: <b>Chairman A. Ereemeev</b>
09.00 – 09.40 09.45 – 10.25	<b>S. Shary</b> <i>“Interval Methods for Data Fitting under Inaccuracy and Uncertainty”</i>
10.25 – 11.00	<b>Russian Operations Research Society Session</b>
13.00 – 14.30	<i>Lunch</i>
	Section Talks

	<b>Section Continuous Optimization</b>
	<b>Chairman A. Orlov</b>
14.30 – 14.50	<b>V. Matveenko</b> <i>“Generalized Convexity with Operations Max and Min and its Applications in Economics”</i>
14.50 – 15.10	<b>S. Shary</b> <i>“Interval regularization for systems of linear algebraic equations”</i>
15.10 – 15.30	<b>S. Zhilin</b> <i>“Data Fitting under Interval Error: Centroids of Feasible Parameter Set”</i>
15.30 – 15.50	<b>S. Ivanov and O. Selivanova</b> <i>“Bilevel stochastic linear programming problem with quantile criterion and continuous random parameters”</i>
15.50 – 16.10	<b>S. Vasileva and Yu. Kan</b> <i>“Application of the linearization method for solving quantile optimization problems”</i>
16.10 – 16.25	<i>Break</i>
	<b>Chairman V. Matveenko</b>
16.25 – 16.45	<b>E. Nurminski</b> <i>“Computational projection project”</i>
16.45 – 17.05	<b>E. Vorontsova</b> <i>“Constrained Separating Plane Algorithm with Additional Clipping”</i>
17.05 – 17.25	<b>T. Gruzdeva, A. Ushakov and I. Vasilyev</b> <i>“DC Programming Biobjective Approach for Solving an Applied Rougher Flotation Optimization Problem”</i>
17.25 – 17.45	<b>R. Enkhbat and M. Barkova</b> <i>“D.c. programming approach to Malfatti’s problem”</i>
17.45 – 18.00	<i>Break</i>
	<b>Chairman S. Zhilin</b>
18.00 – 18.20	<b>I. Bykadorov</b> <i>“Generalized Concavity and Global Optimization”</i>
18.20 – 18.40	<b>A. Gornov</b> <i>“Computational technologies for studying set-valued optimization problems”</i>
18.40 – 19.00	<b>P. Dvurechensky, A. Gasnikov and D. Kamzolov</b> <i>“Universal Intermediate Gradient Method with Inexact Oracle”</i>

	<b>Section Discrete Optimization</b>
	<b>Chairman V. Il’ev</b>
14.30 – 14.50	<b>M. Golovachev and A. Pyatkin</b> <i>“On <math>(1, l)</math>-coloring of incidentors of some classes of graphs”</i>
14.50 – 15.10	<b>G. Zabudsky and N. Veremchuk</b> <i>“Weber Problem on Line with Forbidden Gaps”</i>
15.10 – 15.30	<b>D. Parfenov and I. Bolodueina</b> <i>“Comprehensive approach to optimization of network resources in a virtual data center”</i>

15.30 – 15.50	<b>V. Bondarenko and A. Nikolaev</b> <i>“On the skeleton of the pyramidal tours polytope”</i>
15.50 – 16.10	<b>Yu. Chernyshev, A. Sergeev and A. Ryazanov</b> <i>“Application of Bioinspired Optimization Artificial Intelligence Technology for Solution Task of Cryptanalysis of Encryption Systems”</i>
16.10 – 16.25	<i>Break</i>
	<b>Chairman A. Pyatkin</b>
16.25 – 16.45	<b>V. Il’ev and S. Il’eva</b> <i>“On minimizing supermodular set functions on matroids”</i>
16.45 – 17.05	<b>N. Grigoreva</b> <i>“Approximation Algorithms for Scheduling Problem with Release Times and Delivery Times”</i>
17.05 – 17.25	<b>E. Gimadi, I. Rykov and O. Tsidulko</b> <i>“An Approximation Algorithm for the Euclidean Maximum Connected k-Factor”</i>
17.25 – 17.45	<b>A. Ereemeev and Yu. Kovalenko</b> <i>“Genetic Algorithm with Optimal Recombination for Makespan Minimization on Single Machine”</i>
17.45 – 18.00	<i>Break</i>
	<b>Chairman G. Zabudsky</b>
18.00 – 18.20	<b>L. Zaozerskaya</b> <i>“On Solving Academic Load Distribution Problem”</i>
18.20 – 18.40	<b>P. Kononova and P. Dolgov</b> <i>“Local search for multicriteria single machine scheduling with setups”</i>
18.40 – 19.00	<b>T. Levanova and A. Gnusarev</b> <i>“Variable Neighborhood Search Algorithms for Competitive p-Median Facility Location Problem”</i>
19.00 – 19.20	<b>A. Kel’manov, A. Motkova and V. Shenmaier</b> <i>“An Approximation Scheme for a Weighted 2-Clustering Problem”</i>

	<b>Section Optimization and Applications</b>
	<b>Chairman N. Aizenberg</b>
14.30 – 14.50	<b>I. Davydov, A. Ereemeev and A. Melnikov</b> <i>“A Matheuristic for a Unit Commitment Problem”</i>
14.50 – 15.10	<b>Yu. Zhilkina</b> <i>“Risks in the energy sector: analysis the practices of management (for example, vertically integrated companies)”</i>
15.10 – 15.30	<b>N. Shamray and N. Kochetova</b> <i>“Optimization Model for the Harbor Scrap-Metal Logistic”</i>
15.30 – 15.50	<b>S. Malakh and V. Servakh</b> <i>“Minimization of borrower’s payments in mortgage lending”</i>
15.50 – 16.10	<b>A. Markina and V. Servakh</b> <i>“Maximizing the profit of a logistics company with limited capital”</i>
16.10 – 16.25	<i>Break</i>
	<b>Chairman V. Servakh</b>
16.25 – 16.45	<b>D. Stashkov and L. Kazakovtsev</b> <i>“Genetic fuzzy clustering algorithm with greedy crossing-over procedure”</i>
16.45 – 17.05	<b>N. Aizenberg, E. Stashkevich and N. Voropai</b> <i>“Interaction of Consumers and Power Supply Company for Demand-side Management”</i>
17.05 – 17.25	<b>E. Bobrova</b> <i>“The problem of processing total time minimization for identical workpieces”</i>
17.25 – 17.45	<b>V. Shelekhova</b> <i>“Influence of Casual And Active Consumer Behavior On Energy Consumption”</i>
17.45 – 18.00	<i>Break</i>

	<b>Chairman I. Davydov</b>
18.00 – 18.20	<b>A. Glebov</b> “A 5/6-approximation algorithm for the pseudo-metric TSP-max in an incomplete graph”
18.20 – 18.40	<b>I. Chernykh and S. Sevastyanov</b> “On the abnormality in open shop scheduling”
18.40 – 19.00	<b>I. Chernykh and E. Lgotina</b> “On the optima localization for the 2-machine routing open shop with unrelated travel times”
19.00 – 20.00	<i>Supper</i>

### Saturday, August 5

08.00 – 09.00	<i>Breakfast</i>
	Section Talks

	<b>Section Discrete and Global Optimization</b>
	<b>Chairman I. Vasilyev</b>
09.00 – 09.20	<b>A. Ripatti</b> “Faster approach for exhaustive search over graphs with certain properties”
09.20 – 09.40	<b>S. Toktokhoeva</b> “A polynomial 3/5-approximation algorithm for the problem of finding three edge disjoint Hamiltonian circuits of the maximum weight in a complete digraph”
09.40 – 10.00	<b>F. Khandarov and P. Sorokovikov</b> “Numerical study of bioinspired methods for solving global optimization problems”
10.00 – 10.20	<b>A. Anikin</b> “Numerical Study of Sparse Optimization Methods for PageRank Problem”
10.00 – 10.20	<b>I. Vasilyev and A. Ushakov</b> “A parallel p-median clustering algorithm”
10.20 – 10.40	<b>A. Strekalovsky and I. Minarchenko</b> “On Local Search for General Optimization Problem with D.C. Constraints”
10.40 – 11.00	<b>T. Gruzdeva and A. Strekalovsky</b> “Global Search in Fractional Programming via D.C. Constraints Problem”

	<b>Section Optimization and Applications</b>
	<b>Chairman S. Perzhabinsky</b>
09.00 – 09.20	<b>A. Apartsyn, E. Markova, I. Sidler and V. Trufanov</b> “Optimization Problem for Age Structure of Power Plants Basic Types”
09.20 – 09.40	<b>X. Klimentova, N. Santos, J.P. Pedroso and A. Viana</b> “Modeling of fairness for the kidney exchange problems with multiple agents”
09.40 – 10.00	<b>M. Novickov</b> “On signdefiniteness of the forms higher than the second order”
10.00 – 10.20	<b>N. Novitsky and A. Lutsenko</b> “Methods of hierarchical optimization of hydraulic modes of heat supply systems”
10.20 – 10.40	<b>S. Perzhabinsky</b> “The Model of Power Shortage Estimation of Electric Power Systems with Energy Storages”

### Sunday, August 6

08.00 – 09.00	<i>Breakfast</i>
09.00 – 09.30	<i>Closing School-Seminar</i>
12.00	<i>Departure</i>