

**ПРОГРАММА**  
**международной конференции**  
**«Устойчивость, управление,**  
**дифференциальные игры»,**  
посвященной 95-летию со дня рождения  
академика Н.Н. Красовского

Екатеринбург, Россия  
16–20 сентября 2019 г.

**PROGRAM**  
**of the International Conference**  
**“Stability, Control, Differential Games”**  
**(SCDG2019)**  
devoted to the 95th anniversary of  
Academician N.N. Krasovskii

Yekaterinburg, Russia  
September 16–20, 2019

*ПРИ ФИНАНСОВОЙ ПОДДЕРЖКЕ  
МИНИСТЕРСТВА НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ РОССИЙСКОЙ ФЕДЕРАЦИИ  
И РОССИЙСКОГО ФОНДА ФУНДАМЕНТАЛЬНЫХ ИССЛЕДОВАНИЙ*

Екатеринбург  
2019

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## РЕГИСТРАЦИЯ УЧАСТНИКОВ КОНФЕРЕНЦИИ — CONFERENCE PARTICIPANT REGISTRATION

**ВОСКРЕСЕНИЕ** 15 сентября 16:00–19:00

**ПОНЕДЕЛЬНИК** 16 сентября 08:00–09:00

**Место регистрации:** Фойе гостиницы «Октябрьская»  
г. Екатеринбург, ул. С. Ковалевской, 17

**SUNDAY** September 15 4:00 PM–7:00 PM

**MONDAY** September 16 8:00 AM–9:00 AM

**Location:** Hotel “Oktyabrskaya”. Reception Hall  
17 S. Kovalevskaya str., Yekaterinburg

## РЕГЛАМЕНТ КОНФЕРЕНЦИИ — CONFERENCE PROGRAM OVERVIEW

	Пн/Mon 16.09	Вт/Tue 17.09	Ср/Wed 18.09	Чт/Thu 19.09	Пт/Fri 20.09
9:00	<b>Открытие</b> <b>Opening</b>	Пленарные доклады — Plenary talks			
9:10					
9:10					
10:40					
10:40	<i>Кофе-пауза — Coffee break</i>				
11:10					
11:10	Секционные доклады — Regular talks				
13:10					
13:20	<i>Обед — Lunch</i>				
14:30					
14:30	Пленарные доклады — Plenary talks	<i>14:00</i> <i>Экскурсия</i>		Пленарные Plenary	
16:10					
16:10	<i>Кофе-пауза — Coffee break</i>			<b>Заккрытие</b> <b>Closing</b>	
16:40					
16:40	Секционные доклады — Regular talks		<i>Excursion</i>		
18:20					
18:30	<i>Фуршет</i> — <i>Welcome Reception</i>	<i>Банкет</i> — <i>Conference Dinner</i>			

## ПРОГРАММА КОНФЕРЕНЦИИ

## CONFERENCE PROGRAM

ПОНЕДЕЛЬНИК 16 СЕНТЯБРЯ 2019	MONDAY SEPTEMBER 16, 2019
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08:00–09:00 Регистрация — Registration

09:00–09:10 Открытие конференции — Conference Opening

<b>Пленарное заседание</b>	Председатель: <i>Куржанский А.Б.</i>
<b>Plenary session</b>	Chair: <i>Kurzhanski, A.B.</i>
<b>Зал А — Hall A</b>	

09:10–10:00 *Aseev, S.M.*  
Optimal Control in the Presence of Risk Factors.

10:00–10:50 *Bamieh, B.* Stability and Robustness Problems in the Theory of Transition to Turbulence.

10:50–11:10 Кофе-пауза — Coffee break 

11:10–12:50 Секционные доклады / Regular talks

MS1.1	MS2.1	MS3.1
Зал/Hall A	Зал/Hall B	VIP-зал/Hall

13:20–14:30 Обед — Lunch 

<b>Пленарное заседание</b>	Председатель: <i>Лукоянов Н.Ю.</i>
<b>Plenary session</b>	Chair: <i>Lucoyanov, N.Yu.</i>
<b>Зал А — Hall A</b>	

14:30–15:20 *Kotarov, Yu.A., Kurzhanski, A.B.* On the Problems of Minmax Type under Vector-Valued Criteria.

15:20–16:10 *Veliov, V.* Model Predictive Control and Regularity of Mappings.

16:10–16:40 Кофе-пауза — Coffee break 

16:40–18:20 Секционные доклады — Regular talks

MS1.2	MS2.2	MS3.2
Зал/Hall A	Зал/Hall B	VIP-зал/Hall

**18:30** Фуршет — Welcome Reception

Понедельник. 16 сентября

Monday. September 16

СЕКЦИОННЫЕ ДОКЛАДЫ

REGULAR TALKS

**Устойчивость и стабилизация**      **Stability and stabilization**

Секция MS1.1. (Зал А)

Session MS1.1. (Hall A)

Председатель: Долгий Ю.Ф.

Chair: Dolgii, Yu.F.

11:10–11:30      *Barabanov, E.A., Bykov, V.V.*

Description of a Linear Perron Effect Under Parametric Perturbations Vanishing at Infinity.

11:30–11:50      *Levakov A.A., Vaskovski, M.M., Zadvornyy, Y.B.*

Research of Stability of Stochastic Differential Inclusions by the Lyapunov Functions Method.

11:50–12:10      *Velmisov, P.A., Ankilov, A.V.* Investigation of Stability of Elastic Element of Vibration Device.12:10–12:30      *Grebenshikov, B.G., Lozhnikov, A.B.* Methods of Stabilization of One System with a Constant Delay.12:30–12:50      *Dolgii, Yu.F.* Optimal Pulse Stabilization of Linear Autonomous Systems with Delay.

Секция MS1.2. (Зал А)

Session MS1.2. (Hall A)

Председатель: Зайцев В.А.

Chair: Zaitsev, V.A.

16:40–17:00      *Zaitsev, V.A., Kim, I.G.*

On Eigenvalue Assignment and Stabilization of Block-Matrix Systems by Static Output Feedback.

17:00–17:20      *Il'ina, A.N., Krasinskiy, A.Ya.*

About One Method of Stabilization of Steady Motions for Systems with Redundant Coordinates.


17:20–17:40      *Krasinskiy, A.Ya.* On Stability under the Permanently Acting Perturbations in Some Critical Cases.17:40–18:00      *Banshchikova, I.N., Popova, S.N.*

On Conditions for Proportional Local Controllability of Lyapunov Exponents of Discrete-Time Linear Systems.

<b>Оптимальное управление и дифференциальные игры</b>	<b>Optimal control theory and differential games</b>
Секция MS2.1. (Зал В)	Session MS2.1. (Hall B)
Председатель: <i>Palokangas, T.</i>	Chair: <i>Palokangas, T.</i>
11:10–11:30	<i>Lehmijoki, U., Palokangas T.K.</i> Optimal Control of a Market Economy with Endogenous Fertility and Deadly Emissions.
11:30–11:50	<i>Palokangas T.K.</i> Optimal Taxation with Endogenous Population Growth and the Risk of Environmental Disaster.
11:50–12:10	<i>Averbukh, Yu.V.</i> Stochastic Approximate Equilibria of Nonzero-Sum Differential Games.
12:10–12:30	<i>Andreeva, I.Yu, Seseikin, A.N.</i> Singular Linear-Quadratic Problem for a Quasilinear System.
12:30–12:50	<i>Alsevich, V.V.</i> Optimization of Continuous Systems in the Class of Discrete Controls.
Секция MS2.2. (Зал В)	Session MS2.2. (Hall B)
Председатель: <i>Реттиева А.Н.</i>	Chair: <i>Rettieva, A.N.</i>
16:40–17:00	<i>Blagodatskikh, A.I.</i> About Simultaneous Multiple Capture of a Group of Evaders.
17:00–17:20	<i>Gomoyunov, M.I.</i> On a Hamilton–Jacobi Equation for Differential Games in Systems with Fractional Caputo Derivatives.
17:20–17:40	<i>Rettieva, A.N.</i> Dynamic Multicriteria Games with Different Planning Horizons.
17:40–18:00	<i>Samatov, B.T., Soyibbayev, U.B.</i> The Intercept Problem for Nonlinear Differential Games.
18:00–18:20	<i>Khlopin, D.V.</i> On Preciseness of Necessary Boundary Condition of Optimality in Infinite-Horizon Control Problem.

Оценивание состояний	State estimates
Секция MS3.1. (VIP-зал)	Session MS3.1. (VIP Hall)
Председатель: <i>Гусев, М.И.</i>	Chair: <i>Gusev, M.I.</i>
11:10–11:30	<i>Yufereva, O.O., Tanwani, A.</i> Suboptimal Nonlinear Filters with Poisson-Sampled Measurements.
11:30–11:50	<i>Ananyev, B.I.</i> One Problem of Statistically Uncertain Estimation.
11:50–12:10	<i>Bedin, D.A.</i> Lower Bound of Accuracy of Unbiased Estimates of the End of Trajectory for Motion with Switching.
12:10–12:30	<i>Gusev, M.I.</i> On the Asymptotics of Reachable Sets of Nonlinear Systems with Integral Constraints on Small Time Intervals.
12:30–12:50	<i>Bedin D.A., Ivanov, A.G.</i> Using a Genetic Approach to Find the Optimal Parameters of the Aircraft Tracking.
Секция MS3.2. (VIP-зал)	Session MS2.2. (VIP Hall)
Председатель: <i>Филлипова, Т.Ф.</i>	Chair: <i>Filippova, T.F.</i>
16:40–17:00	<i>Dunaevskaya, K.V., Kostousov, V.B.</i> A New Method for Estimating Coordinate Correction Errors Using a Microrelief Field.
17:00–17:20	<i>Kostousova, E.K.</i> On External and Internal Estimation of Reachable Sets of Discrete-Time Systems with Integral Constraints and Uncertain Matrices.
17:20–17:40	<i>Lebedev, P.D., Uspenskii, A.A., Ushakov, V.N.</i> An Iterative Procedure for Constructing of Optimal Packings in Non-Convex Flat Shapes.
17:40–18:00	<i>Timofeeva, G.A.</i> Problem of Restoring of Passenger Preferences Function in the Distribution of Passenger Traffic.
18:00–18:20	<i>Filippova, T.F., Matviychuk, O.G.</i> Control Problems for Set-Valued Motions of Systems with Uncertainty and Nonlinearity.



ВТОРНИК 17 СЕНТЯБРЯ 2019		TUESDAY SEPTEMBER 17, 2019	
<b>Пленарное заседание</b>		Председатель: <i>Ушаков В.Н.</i>	
<b>Plenary session</b>		Chair: <i>Ushakov, V.N.</i>	
<b>Зал А — Hall A</b>			
09:00–09:50	<i>Kuznetsov, N.V.</i> Theory of Hidden Oscillations and Stability of Control Systems.		
09:50–10:40	<i>Tolstonogov, A.A.</i> BV Solutions of a Convex Sweeping Process of a Differential Inclusion with Perturbations.		
10:40–11:10	Кофе-пауза — Coffee break 		
11:10–13:10	Секционные доклады — Regular talks		
	TS2.1 Зал/Hall A	TS4.1 Зал/Hall B	TS5.1 VIP-зал/Hall
13:20–14:30	Обед — Lunch 		
<b>Пленарное заседание</b>		Председатель: <i>Ченцов А.Г.</i>	
<b>Plenary session</b>		Chair: <i>Chentsov, A.G.</i>	
<b>Зал А — Hall A</b>			
14:30–15:20	<i>Zelikin, M.I., Lokutsievskiy, L.V.</i> Analytical Solution of Newton's Aerodynamic Problem without the Assumption of Rotational Symmetry.		
15:20–16:10	<i>Shananin, A.A.</i> Mathematical Modeling of Investments in the Imperfect Capital Market.		
16:10–16:40	Кофе-пауза — Coffee break 		
16:40–18:00	Секционные доклады — Regular talks		
	TS2.2 Зал/Hall A	TS1.2 Зал/Hall B	

Вторник. 17 сентября		Tuesday. September 17	
СЕКЦИОННЫЕ ДОКЛАДЫ		REGULAR TALKS	
<b>Оптимальное управление и дифференциальные игры</b>		<b>Optimal control theory and differential games</b>	
Секция TS2.1. ( <b>Зал А</b> )		Session TS2.1. ( <b>Hall A</b> )	
Председатель: <i>Данилин А.Р.</i>		Chair: <i>Danilin, A.R.</i>	
11:10–11:30	<i>Danilin, A.R., Kovrizhnykh, O.O.</i> On the Time-Optimal Control Problems for Linear Systems with Fast and Slow Variables and Smooth Constraints on the Control.		
11:30–11:50	<i>Ushakov, V.N., Ershov, A.A.</i> Construction of Reachable Sets of Nonlinear Control Systems with a Second Order of Accuracy with Respect to the Time Step.		
11:50–12:10	<i>Izmest'ev, I.V.</i> On an Impulse Differential Game with Mixed Payoff.		
12:10–12:30	<i>Iskanadjiev, I.M.</i> Connection Between the Basic Operators in Nonlinear Differential Games with Fixed Time.		
12:30–12:50	<i>Kamneva, L.V.</i> Computation of Solvability Set for Linear Differential Games with Fixed Terminal Time.		
Секция TS2.2. ( <b>Зал А</b> )		Session TS2.2. ( <b>Hall A</b> )	
Председатель: <i>Клейменов А.Ф.</i>		Chair: <i>Kleimenov, A.F.</i>	
16:40–17:00	<i>Kleimenov, A.F.</i> Hybrid Two-Step Problem of Dynamic Control with Three Participants.		
17:00–17:20	<i>Krasovskii, N.A., Tarasyev, A.M.</i> The Analysis of Equilibrium Solutions in Three-Dimensional Dynamic Auction Game.		
17:20–17:40	<i>Munts, N.V., Kumkov, S.S.</i> Polylinear Approximations in Grid Methods for Constructing Generalized Solution of Hamilton–Jacobi Equation.		
17:40–18:00	<i>Kalinin, A.I., Lavrinovich, L.I.</i> The Small Parameter Method in a Linear-Quadratic Optimal Control Problem with Linear Terminal Constraints.		

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<b>Дифференциальные уравнения</b>	<b>Differential equations</b>
Секция TS4.1. ( <b>Зал В</b> )	Session TS4.1. ( <b>Hall B</b> )
Председатель: <i>Азамов А.А.</i>	Chair: <i>Azamov, A.A.</i>
11:10–11:30	<i>Azamov, A.A., Ruzimuradova, D.H.</i> On Unbounded Limit Sets of Dynamical Systems.
11:30–11:50	<i>Akhmedov, O.S., Tilavov, A.M., Dustnazarov, S.B.</i> Existence of a Closed Trajectory in Four-Dimensional Modified Brusselator Model.
11:50–12:10	<i>Ershova, A.A.</i> Algorithm for Studying the Mathematical Model of Thermal Conductivity in a Multilayer Enclosing Structure.
12:10–12:30	<i>Benarab, S., Zhukovskiy, E.S., Merchela, W.</i> Some Generalizations of Covering Mappings Perturbation Theorems.
12:30–12:50	<i>Orlov, S.S., Samsonyuk, O.N.</i> A Sweeping Process with a Discontinuous Moving Set.
12:50–13:10	<i>Petrenko, P.S.</i> To the Question of Controllability of One Singular Hybrid System.

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**Обратные задачи динамики****Inverse problems of dynamics**

Секция TS5.1. (VIP-зал)

Session TS5.1. (VIP Hall)

Председатель: *Максимов, В.И.*Chair: *Maksimov, V.I.*

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| <b>11:10–11:50</b> | <i>Subbotina, N.N.</i><br>Calculus of Variations in Solutions of Dynamic Reconstruction Problems.  |
| <b>11:50–12:10</b> | <i>Rozenberg, V.L.</i><br>A Dynamical Input Reconstruction Problem in a System of Special Type under the Lack of Information.                  |
| <b>12:10–12:30</b> | <i>Solodusha, S.V.</i> Identification of Input Signals for One Class of Dynamic Systems Using Volterra Polynomial Equations of the First Kind. |
| <b>12:30–12:50</b> | <i>Krupennikov, E.A.</i> On Solving Dynamic Reconstruction Problems for Systems with Large Number of Controls.                                 |
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**Устойчивость и стабилизация****Stability and stabilization**

Секция TS1.2. (Зал В)

Session TS1.2. (Hall B)

Председатель: *Точилин, П.А.*Chair: *Tochilin, P.A.*

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| <b>16:40–17:00</b> | <i>Tochilin, P.A., Atanesyan, A.A.</i> Stabilization Problem for Switched System Using Piecewise Affine Control. |
| <b>17:00–17:20</b> | <i>Finogenko, I.A.</i> Principle of Invariancy for Discontinuous Systems.  |
| <b>17:20–17:40</b> | <i>Khamisov, O.O.</i> Distributed Frequency Control in Power Systems with Limited Information.                   |
| <b>17:40–18:00</b> | <i>Shevchenko, R.I.</i> Approximating Systems in the Exponential Stability Problem for Retarded System.          |
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СРЕДА 18 СЕНТЯБРЯ 2019		WEDNESDAY SEPTEMBER 18, 2019		
<b>Пленарное заседание</b>		Председатель: <i>Субботина Н.Н.</i>		
<b>Plenary session</b>		Chair: <i>Subbotina, N.N.</i>		
<b>Зал А — Hall A</b>				
09:00–09:50	<i>Davydov, A.A., Skinder, Y.A.</i> On Structural Stability of Dynamic Inequalities.			
09:50–10:40	<i>Dykhita, V.A.</i> Approximate Feedback Minimum Principle for Suboptimal Processes in Non-smooth Optimal Control Problems.			
10:40–11:10	Кофе-пауза — Coffee break 			
11:10–13:10	Секционные доклады — Regular talks			
	WS2.1 Зал/Hall A	WS6.1 Зал/Hall B	WS4.1 VIP-зал/Hall	
13:20–14:30	Обед — Lunch 			
<b>Пленарное заседание</b>		Председатель: <i>Петросян Л.А.</i>		
<b>Plenary session</b>		Chair: <i>Petrosyan, L.A.</i>		
<b>Зал А — Hall A</b>				
14:30–15:20	<i>Arutyunov, A.V.</i> Second Order Necessary Optimality Conditions for Abnormal Problems and their Applications.			
15:20–16:10	<i>Lokutsievskiy, L.V.</i> Convex Trigonometry with Applications to Sub-Finsler Geometry.			
16:10–16:40	Кофе-пауза — Coffee break 			
16:40–18:20	Секционные доклады — Regular talks			
	WS2.2 Зал/Hall A	WS6.2 Зал/Hall B		
<b>18:30</b>	Банкет — Conference Dinner			

Среда. 18 сентября	Wednesday, September 18
<b>СЕКЦИОННЫЕ ДОКЛАДЫ</b>	<b>REGULAR TALKS</b>

	<b>Оптимальное управление и дифференциальные игры</b>	<b>Optimal control theory and differential games</b>
	Секция WS2.1. (Зал А) Председатель: <i>Пацко В.С.</i>	Session WS2.1. (Hall A) Chair: <i>Patsko, V.S.</i>
11:10–11:30	<i>Gromov, D.V., Bondarev, A.</i> On the Regularity of Solutions in an Optimal Control Problem with Hybrid Dynamics.	
11:30–11:50	<i>Novoselova, N.G.</i> Construction of the Viability Set in a Chemotherapy Problem for Malignant Tumor Growing According to a Generalized Logistic Law.	
11:50–12:10	<i>Parilina, E.M., Petrosyan, L.A.</i> New Approach to Define Characteristic Function in Stochastic Games.	
12:10–12:30	<i>Patsko V.S., Fedotov A.A.</i> The Pontryagin Maximum Principle and the Convexity Property of the Cross Sections by the Angular Coordinate of the Three-Dimensional Reachable Set for the Dubins Car.	
12:30–12:50	<i>Petrov, N.N., Machtakova, A.I., Narmanov, A.Ya.</i> To the Problem of Group Pursuit in Differential Games with Fractional Derivatives.	
12:50–13:10	<i>Sokolov, V.F.</i> Recurrent Polyhedral Estimation in Problem of Adaptive Optimal Robust Tracking.	
	Секция WS2.2. (Зал А) Председатель: <i>Рубинович Е.Я.</i>	Session WS2.2. (Hall A) Chair: <i>Rubinovich, E.Ya.</i>
16:40–17:00	<i>Gromova, E.V.</i> On the Form of Payoff Functional in the Optimal Control Problem with Random Starting Time.	
17:00–17:20	<i>Pogodaev, N.I., Staritsyn, M.V.</i> Maximum Principle for Optimal Impulsive Control of Continuity Equations.	
17:20–17:40	<i>Serkov, D.A.</i> On a Dynamic Retention Problem with an Indecomposable Set of Disturbances.	
17:40–18:00	<i>Rubinovich, E.Ya.</i> Alternate Pursuit of Two Targets, One of which is a False.	

<b>Современные приложения теории управления и численные методы</b>	<b>Applications of optimal control theory and numerical methods</b>
Секция WS6.1. ( <b>Зал В</b> )	Session WS6.1. ( <b>Hall B</b> )
Председатель: <i>Барсегян В.Р.</i>	Chair: <i>Barseghyan, V.R.</i>
11:10–11:30	<i>Krasovskii A.A., Platov A.S.</i> Discrete-Time Optimal Control in the Forestry Model.
11:30–11:50	<i>Miller B.M., Miller G., Semenikhin K.</i> UAV Path Planning in Search and Rescue Operations.
11:50–12:10	<i>Ageev, A.L., Antonova, T.V.</i> Localization of Discontinuity Lines of a Function with a Noise.
12:10–12:30	<i>Barseghyan, V.R.</i> About One Problem of Optimal Control of String Oscillations with Non-Separated Multipoint Conditions at Intermediate Moments of Time.
12:30–12:50	<i>Beshtokov, M.Kh.</i> The First Boundary Value Problem for a Multidimensional Pseudo-Parabolic Equation of the Third Order in a Domain with an Arbitrary Boundary.
12:50–13:10	<i>Kuznetsov, N.V., Mokaev, T.N., Alexeeva, T.A.</i> On Lower-Bound Estimates of the Lyapunov Dimension and Topological Entropy via Pyragas Control.
Секция WS6.2. ( <b>Зал В</b> )	Session WS6.2. ( <b>Hall B</b> )
Председатель: <i>Федоров В.Е.</i>	Chair: <i>Fedorov, V.E.</i>
16:40–17:00	<i>Dyshaev, M.M., Fedorov, V.E.</i> Optimal Hedging Interval for the Bear Call Spread within the Framework of the RAPM.
17:00–17:20	<i>Kumkov, S.I., Pyatko, S.G., Ovchinnikov, M.M.</i> Non-Conflict Merging Aircraft Flows under Alarm Situations.
17:20–17:40	<i>Spiridonov, A.A., Kumkov, S.S.</i> Development of Formalization of Non-Conflict Aircraft Flows Merging Problem.
17:40–18:00	<i>Beshtokova, Z.V.</i> Economical Additive Difference Schemes for Solving a Nonlocal Boundary Value Problem for a Multidimensional Heat Equation.
18:00–18:20	<i>Gornov, A.Yu., Zarodnyuk, T.S.</i> Computational Technique for Solving Optimal Control Problems for Time-Delay Systems.

Дифференциальные уравнения	Differential equations
Секция WS4.1. (VIP-зал)	Session WS4.1. (VIP Hall)
Председатель: <i>Танана В.П.</i>	Chair: <i>Tanana, V.P.</i>
11:10–11:30	<i>Plekhanova, M.V., Baybulatova, G.D.</i> Class of Semilinear Degenerate Equations with Fractional Lower Order Derivatives.
11:30–11:50	<i>Finogenko, I.A., Seseikin, A.N.</i> Positional Impulse and Discontinuous Controls for Differential Inclusions.
11:50–12:10	<i>Tanana, V.P., Sidikova, A.I.</i> Solving the Inverse Heat Conduction Boundary Problem for Composite Materials.
12:10–12:30	<i>Abdrakhmanova, A.A., Fedorov, V.E.</i> On Solvability of a Class of Distributed Order Differential Equations.
12:30–12:50	<i>Shagalova, L.G.</i> Piecewise Linear Minimax Solution of Hamilton—Jacobi Equation with Nonhomogeneous Hamiltonian.



ЧЕТВЕРГ 19 СЕНТЯБРЯ 2019		THURSDAY SEPTEMBER 19, 2019	
<b>Пленарное заседание</b>		Председатель: <i>Вельов В.</i>	
<b>Plenary session</b>		Chair: <i>Veliou, V.</i>	
<b>Зал А — Hall A</b>			
09:00–09:50	<i>Ledyaev, Yu.S.</i>	Integral Decrease Principle and Robust Stabilization of Nonlinear Control Systems.	
09:50–10:40	<i>Grigorenko, N.L., Klimenkova, A.D., Korobeinikov, A., Khailov, E.N.</i>	Program and Positional Control Strategies for the Lotka–Volterra Competition Model.	
10:40–11:10	Кофе-пауза — Coffee break 		
11:10–12:30	Секционные доклады — Regular talks		
	ThS2.1	ThS6.1	
	<b>Зал/Hall A</b>	<b>Зал/Hall B</b>	
12:30–13:30	Обед — Lunch 		
<b>14:00</b>	<b>Экскурсия — Excursion</b>		

Четверг, 19 сентября	Thursday, September 19
СЕКЦИОННЫЕ ДОКЛАДЫ	REGULAR TALKS

<b>Оптимальное управление и дифференциальные игры</b>	<b>Optimal control theory and differential games</b>
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Секция ThS2.1. ( <b>Зал А</b> )	Session ThS2.1. ( <b>Hall A</b> )
Председатель: <i>Плаксин А.Р.</i>	Chair: <i>Plaksin, A.R.</i>

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|-------------|--|---|
| 11:10–11:30 | <i>Lukoyanov, N.Yu., Plaksin, A.R.</i> | Infinitesimal Criterion of Stability of Functionals with Respect to Neutral-Type Differential Inclusions. |
| 11:30–11:50 | <i>Rodin, A.S.</i>                     | Bifurcation Points of a Minimax Solution of a Hamilton–Jacobi–Bellman Equation.                           |
| 11:50–12:10 | <i>Plaksin, A.R.</i>                   | Subgradients of a Value Functional in Optimal Control Problems for Time-Delay Systems.                    |
| 12:10–12:30 | <i>Tarashev, A.M., Usova, A.A.</i>     | Stabilization of the Hamiltonian Systems by Means of Solution for Riccati Equation.                       |
| 12:30–12:50 | <i>Sumin, M.I.</i>                     | Regularization of Optimality Conditions in Nonlinear Optimal Control.                                     |

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<b>Современные приложения теории управления и численные методы</b>	<b>Applications of optimal control theory and numerical methods</b>
Секция ThS6.1. (Зал В)	Session ThS6.1. (Hall B)
Председатель: <i>Мельников Н.Б.</i>	Chair: <i>Mel'nikov, N.B.</i>
11:10–11:30	<i>Kandoba, I.N., Koz'min, I.V., Kostousova, E.K.</i> Numerical Investigation of the Maximum G-Force Function in a Problem of Optimal Launch of the Carrier Rocket.
11:30–11:50	<i>Kazakov, A.L., Lempert, A.A.</i> On the Packing of Spheres of Two Types in Three- Dimensional Non-Euclidean Space.
11:50–12:10	<i>Lukianova, L.N.</i> Motion Control of the Phase Vector Along Given Flat Curve for Model Competition Lotka–Volterra.
12:10–12:30	<i>Mel'nikov, N.B., Gruzdev, A.P.</i> Block Jacobi Preconditioning for Solving Dynamic General Equilibrium Models.

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ПЯТНИЦА 20 СЕНТЯБРЯ 2019		FRIDAY SEPTEMBER 20, 2019	
<b>Пленарное заседание</b>	Председатель:	<i>Шананин А.А.</i>	
<b>Plenary session</b>	Chair:	<i>Shananin, A.A.</i>	
<b>Зал А — Hall A</b>			
09:00–09:50	<i>Petrosyan, L.A., Yeung, D.W.K.</i>	Construction of Time-Consistent Solutions in Differential Network Games.	
09:50–10:40	<i>Ananievski, I.M.</i>	Finite-Time Stabilization of Some Systems with Elastic Links.	
10:40–11:10	Кофе-пауза — Coffee break		
11:10–13:10	Секционные доклады — Regular talks		
	FS2.1 Зал/Hall A	FS6.1 Зал/Hall B	
13:20–14:30	Обед — Lunch		
<b>Пленарное заседание</b>	Председатель:	<i>Тарасьев А.М.</i>	
<b>Plenary session</b>	Chair:	<i>Tarashev, A.M.</i>	
<b>Зал А — Hall A</b>			
14:30–15:20	<i>Falcone, M.</i>	A Discrete Time Dynamic Programming Approach on a Tree Structure for Finite Horizon Optimal Control Problems.	
15:20–16:10	<i>Izobov, N.A., Il'in, A.V.</i>	The Whole Description by Suslin Sets of Lyapunov Characteristic Exponents in the Perron Effect of Their Value Change.	
<b>16:10</b>	Заккрытие конференции — Conference Closing		

Пятница. 20 сентября СЕКЦИОННЫЕ ДОКЛАДЫ	Friday. September 20 REGULAR TALKS
<b>Оптимальное управление и дифференциальные игры</b>	<b>Optimal control theory and differential games</b>
Секция FS2.1. (Зал А) Председатель: <i>Успенский А.А.</i>	Session FS2.1. (Hall A) Chair: <i>Uspenskii, A.A.</i>
<b>11:10–11:50</b> <i>Chentsov, A.G.</i> Program Constructions in Abstract Game Retention Problem.	
11:50–12:10	<i>Bagno, A.L., Tarasyev, A.M.</i> Backward Procedures for Optimal Control Problems with Infinite Horizon.
12:10–12:30	<i>Ukhobotov, V.I., Izmet'ev, I.V.</i> Control Problem with Disturbance and Unknown Moment of Change of Dynamics.
12:30–12:50	<i>Lebedev, P.D., Uspenskii, A.A.</i> Markers of Pseudo-Vertices of a Boundary Set in the Dirichlet Problem for One Class of Hamilton–Jacobi Equations.
12:50–13:10	<i>Chikrii, A.A., Rutkas, A.G., Vlasenko, L.A.</i> On a Differential Game in a System Described by a Functional Differential Equation.

Современные приложения теории управления и численные методы	Applications of optimal control theory and numerical methods
Секция FS6.1. (Зал В)	Session FS6.1. (Hall B)
Председатель: <i>Шориков А.Ф.</i>	Chair: <i>Shorikov, A.F.</i>
11:10–11:30	<i>Zavalishchin, D.S.</i> An Object Movement Control in a Variable Density Medium.
11:30–11:50	<i>Kuvshinov, D.R.</i> A Geometric Approach to a Class of Optimal Control Problems.
11:50–12:10	<i>Pimenov, V.G., Lozhnikov, A.B.</i> The Galerkin Method for a Fractional Parabolic Equation with Functional Delay.
12:10–12:30	<i>Ushakov, V.N., Ukhobotov, V.I., Ushakov, A.V.</i> On Constructing Solutions in a Problem of Approaching for Stationary Control Systems.
12:30–12:50	<i>Shorikov, A.F., Kalev, V.I.</i> An Algorithm for Solving Minimax Closed-Loop Propellant Consumption Control Problem of Launch Vehicle.
12:50–13:10	<i>Beshtokov, M.Kh., Hudalov, M.Z.</i> Difference Methods for Solving Local and Nonlocal Boundary Value Problems for a Loaded Fractional Order Heat Equation.

«Устойчивость, управление, дифференциальные игры» (SCDG2019)  
Программа международной конференции, посвященной  
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