

**Azərbaycan Milli Elmlər Akademiyası
Riyaziyyat və Mexanika İnstitutu**

Riyaziyyat və Mexanikanın Müasir Problemləri
Azərbaycan Milli Elmlər Akademiyası
Riyaziyyat və Mexanika İnstitutunun
60-illik yubileyinə həsr olunmuş beynəlxalq konfransın

PROQRAMI

**Modern Problems of Mathematics and Mechanics
PROGRAM**

of International conference devoted to the
the 60th anniversary of the
Institute of Mathematics and Mechanics of the
Azerbaijan National Academy of Sciences

Современные Проблемы Математики и Механики

ПРОГРАММА

международной конференции, посвященной
60-летию Института Математики и Механики
Национальной Академии Наук Азербайджана

23-25 oktyabr 2019

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Vise-Chairmen: Vagif S. Guliyev

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Mehdi Mammadov, Eldar Abbasov, Mehriban Omarova, Sabina Sadigova, Sabina Salmanova, Parvana Najafova, Famil Seyfullayev, Emin Bagirov, Zaman Safarov, Tahira Musayeva, Esmira Aliyeva, Gumru Sadigova, Shamsiyya Muradova, Arzu Pachalova, Perviz Museyibli, Aygun Orujova, Nemat Shikhverdiyev, Khumar Maharramova, Gunel Isayeva, Aida Guliyeva, Javanshir Azizov

ZAL 1

10:00-11:30

Konfransın proqramı

23 oktyabr, 2019

Konfransın açılışı:

1. **"Azərbaycan Milli Elmlər Akademiyasının Riyaziyyat və Mexanika İnstitutu 60 ildə"**- Azərbaycan Milli Elmlər Akademiyasının Riyaziyyat və Mexanika İnstitutunun direktoru, AMEA-nın müxbir üzvü, professor - **Misir Mərdanov**
2. Çıxışlar.

HALL 1

10:00-11:30

Program of the conference

23 October, 2019

Opening ceremony of conference:

1. **"Institute of Mathematics and Mechanics of the National Academy of Sciences of Azerbaijan in 60 years"**- Corresponding member of NAS of Azerbaijan, Director of the Institute of Mathematics and Mechanics- **Misir Mardanov**.
2. Addresses.

Coffe Break - 11:30-12:00

PLENARY SESSION
23 October, 12.00-14.00

HALL 1

Chairman: Academician Yusuf Mammadov

1. *Academician Yury Yershov*, "Algebra and Logic; old and new connections"
2. *Prof. Boris Mordukhovich*, "Optimal control of differential inclusions"
3. *Prof. Andrey Fursikov*, "On nonlocal stabilization problem for one hydrodynamic type system"

PLENARY SESSION
24 October, 10:00-11:20

HALL 1

Chairman: Corr. - member of ANAS, prof. Misir Mardanov

1. *Prof. Victor Burenkov*, "Sharp spectral stability estimates for higher order elliptic operators"
2. *Prof. Yalchin Efendiev*, "Multiscale models and model learning for flows in porous media"

Coffe Break - 11:20-11:40

PLENARY SESSION
24 October, 11:40-13:00

HALL 1

Chairman: Corr. - member of ANAS, prof. Vagif Guliyev

3. *Prof. Lyoubomira Softova*, "Gradient estimates for nonlinear elliptic equations in Morrey type spaces"
4. *Prof. Moubariz Garaev*, "Multiplicative congruences and points on exponential curves modulo a prime"

PLENARY SESSION
25 October, 10:00-11:20

HALL 1

Chairman: Corr. - member of ANAS, prof. Bilal Bilalov

1. *Prof. Yusif Mammadov*, "The eigenvalue problem in the case of complex-valued roots of the characteristic equation"
2. *Prof. Varga Kalantarov*, "Continuous dependence and decay estimates for Euler-Bernoulli type Equations"

Coffe Break - 11:20-11:40

HALL 1

INVITED SESSION

25 October, 11.40-13.00

Chairman: Corr. - member of ANAS, prof. Geylani Panahov

1. *Corr. - member of ANAS, prof. Surkay Akbarov, M.I. Ismailov*, "On the "gyroscopic effect" under dynamics of an oscillating moving load acting on the elastic plate laying on the compressible viscous fluid with finite depth"
2. *Prof. Heybetkulu Mustafayev*, "Quantitative generalization of the Hartman-Sarason theorem"
3. *Prof. Elimhan Mahmudov*, "The theory of duality to problems with higher order differential inclusions"
4. *Prof. Asghar Rahimi, Z. Samadzadeh*, "Woven Fusion Frames and it's applications"
5. *Prof. Octavio Paulo Vera Villagran*, "Stability for an Klein-Gordon equation type with a boundary dissipation of fractional derivative type"

Wednesday, October 23th, 2019
Section -Functional Analysis and Applied Mathematics
15:00-18:00 **HALL 1**
Chairmen: prof. H.I. Aslanov, prof. S.S. Mirzoev

1. Z.S. Aliyev, F.M. Namazov, Basis properties of a boundary value problem with boundary conditions depending on the eigenparameter
2. A.R. Aliev, M.Dzh. Manafov, First-order regularized trace of the Sturm–Liouville operator with point of δ' -interaction
3. Y. Gasimov, L. Agamalieva, A. Aliyeva, On the existence results for the domain functionals of the eigenvalues of the Pauli operator
4. H.I. Aslanov, M.M. Mamedov, On existence of the solution of partial operator differential equations in Hilbert spaces
5. L.G. Khalilova, Dynamics of variable section elastic bar initial boundary value problem
6. V.M. Kurbanov, G.R. Gadjieva, Estimations for root vectors of the functions of Dirac type operator
7. Kh.M. Gamzaev, The inverse problem of non-stationary flow liquids in a pipe with a permeable wall
8. L.I. Mammadova, I.M. Nabiev, On the spectral properties of the Sturm-Liouville operator with a boundary condition quadratically dependent on the spectral parameter
9. E.Kh. Eyvazov, Finding the first eigenvalue of the Landau operator
10. R.F. Hatamova, The estimate of norm the operators of intermediate derivatives with connection of operator-differential equations in partial derivatives of second order on all space R^n

Wednesday, October 23th, 2019
Section - Mathematical Analysis, Function Spaces

15:00-18:00

HALL 2

Chairmen: prof. S.K. Abdullayev, prof. A.M. Najafov

1. S.K. Abdullayev, A.A. Akbarov, Some estimates for the generalized operators of Laplace-Bessel harmonic analysis
2. A.M. Najafov, On embedding theorems in small small Sobolev-Morrey spaces
3. Ali Farajzadeh, On fixed point uniqueness conditions for generalized (ψ, φ) -weak contractions
4. R.A. Bandaliyev, On precompactness of sets in Morrey spaces
5. M.G. Hajibayov, Boundedness in variable exponent spaces of generalized potential operators given on nonhomogeneous spaces
6. A.T. Orujova, Estimations of the norm of functions spaces type $S^l_{p, \varphi, \beta} W(G)$ reduced by polynomials
7. Y.Y. Mammadov, F. Muslimova, Characterization of fractional maximal commutators on Orlicz spaces in the Dunkl setting
8. Sh.A. Muradova, Investigation of anisotropic fractional maximal operator in anisotropic Morrey-type spaces
9. F.A. Abdullayev, On the boundedness of an n -fold singular integral operator in generalized Hölder spaces
10. S.A. Hasanli, On the boundedness of commutators Dunkl-type fractional integral operator in the Dunkl-type modified Morrey spaces

Wednesday, October 23th, 2019
Section -Harmonic Analysis, Approximation

15:00-18:00

HALL 3

*Chairmen: Corr. - member of ANAS, prof. B.T. Bilalov,
prof. A.R. Aliyev*

1. B.T. Bilalov, A.A. Huseynli, On the basisness of the exponential system in weighted Hardy spaces

2. B.T. Bilalov, F.A. Alizade, On a particular solution of homogeneous Riemann boundary value problems in Hardy-Orlicz classes
3. A.Sh. Shukurov, T.Z. Garayev, On frame properties of iterates of a multiplication operator
4. S.R. Sadigova, A.E. Guliyeva, On the solvability of the nonhomogeneous Riemann problem in the weighted Smirnov classes
5. M.I. Ismailov, V.Q. Alili, On basicity of the system of exponents in grand-Lebesgue spaces
6. M. I. Ismailov, M.O. Askerova, Solvability of Riemann problem in grand-Hardy classes
7. V.F. Salmanov, V.S. Mirzoyev, On basicity of perturbed exponential system in grand-Sobolev spaces
8. F.A. Alizade, M.F. Rasulov, Hardy-Orlicz classes and bases in them

Wednesday, October 23th, 2019
Section -PDE and Mathematical Physics
15:00-18:00
Chairmen: prof. A.B. Aliev, prof. B.A. Aliev

HALL 4

1. Y. Yakubov, Second order elliptic differential-operator problems with the spectral parameter and the operator in boundary conditions
2. A.B. Aliev, G.Kh. Shafiyeva, Mixed problem for the strongly damped nonlinear wave equation with dynamic boundary conditions
3. A.B. Aliev, Y.M. Farhadova, Existence of strong solutions for the coupled suspension bridge equations
4. M. Bayramoğlu, A.M. Bayramov, K. Koklu, On asymptotic behaviour of the negative part of the differential operator with operator coefficients
5. B.A. Aliev, V.Z. Kerimov, Solvability of a boundary value problem for second order elliptic differential operator equations with a quadratic complex parameter

6. T. Gadjiev, M. Kerimova, G. Gasanova, The qualitative property of solutions linear and non-linear elliptic-parabolic equations
7. E.A. Gasymov, Application of finite integral transformation to the solution of mixed problems for parabolic equations with reverse flow of time
8. Sh.Sh. Rajabov, Continuous dependence of the solution to the first generalized Dirichlet problem on the right-hand side of the Schrödinger magnetic equation
9. S.G. Samedova, A mixed problem for a partial quasilinear equation
10. N.A. Aliyev, R.G. Ahmedov, A boundary value problem for a first order ordinary differential equation with continuously changing order of derivative
11. N.A. Aliyev, Y.Y. Mustafayeva, New fundamental solution of two-dimensional Laplace equation

Wednesday, October 23th, 2019
Section -Optimal Control Problems
15:00-18:00

HALL 5

*Chairmen: Corr. - member of ANAS, prof. K.R. Aida-zade,
 prof. Y.A. Sharifov*

1. M.J. Mardanov, Y.A. Sharifov, R.A. Sardarova, Existence and uniqueness results for nonlinear impulsive differential with three-point and integral boundary conditions
2. K.R. Aida-zade, V.A. Hashimov, One feedback problem extinguishing of oscillations of a membrane with pointed pulse influences
3. K.R. Aida-zade, A.B. Rahimov, On inverse source problems for a parabolic equation with nonlocal conditions
4. S.A. Zamanova, Y.A. Sharifov, Existence of a saddle-point in differential game with nonlocal conditions
5. M.A. Isayeva, The second variation in a variational problem with delayed arguments

6. V.M. Abdullayev, A. Darwish, A.M. Abdullayev, On application of method of lines in controlling loaded systems
7. V.A. Karimov, S.R. Karimova, On one problem of multicriteria optimization based on a stochastic network model
8. S.Z. Guliyev, Optimization of zonal feedback parameters when controlling the rod heating process
9. R.S. Mamedov, S.R. Mamedova, The problem of optimal stabilization of the heat distribution process in rare media
10. S.Yu. Gasimov, R.S.Mamedov, Lowest-energy control of the parabolic system under point impacts
11. R. Tagiyev, On variational statement of inverse problem on determining lower coefficient of a parabolic equation

Wednesday, October 23th, 2019

Section -Inverse problem

15:00-18:00

HALL 6

Chairmen: prof. N.Sh. Iskenderov, prof. A.Ya. Akhundov

1. F.A. Aliev, V.B. Larin, N.I. Velieva, K.G. Kasimova, LMI method for solving BHH Equations in the normal case
2. N.Sh. Iskenderov, U.S. Alizade, Linear inverse problem for a third order hyperbolic equation with an integral condition
3. R.Kh. Amirov, A. Ergun, Inverse problems for the quadratic pencil of the discontinuous Sturm-Liouville equation
4. A.Ya. Akhundov, A.Sh. Habibova, The inverse problem for parabolic equation in a domain with moving boundary
5. Y.T. Mehraliyev, E.I. Azizbayov, Nonlinear inverse boundary-value problem for the longitudinal wave propagation equation
6. K.A. Alimardanova, A.N. Safarova, The scattering problem for the system of six ordinary differential equations on semi-axi
7. G.N. Isgandarova, A.F. Huseynova, Inverse problem for pseudo hyperbolic equation of the fourth order with an integral condition
8. A.Kh. Khanmamedov, M.H. Mahmudova, N.F. Cafarova, Transformation Operators for the Sturm–Liouville Operators with Growing Potentials

9. E.H. Yusifova, Inverse boundary value problem for one third-order partial differential equation
10. F.G. Feyziyev, M.R. Mekthiyeva, The conditions of orthogonality of the input sequences of binary three - parameters multy dimensional nonlinear modular dynamic systems
11. A.A. Akhundov, E.M. Akhundova, Expansion of the applied capabilities of the theory differential equations with a new concept of universal trajectory
12. A. Hasanova, On the existence of a generalized solution of the inverse problem for equation of parabolic type

Wednesday, October 23th, 2019

Section -Mechanics

15:00-18:00

HALL 7

*Chairmen: Corr. - member of ANAS, prof. G.M. Panahov,
prof. C.H. Agalarov*

1. G.M. Panahov, E.M. Abbasov, Evaluation of the technological efficiency of in-situ generated CO₂ gas-liquid slug
2. G.M. Panahov, P.T. Museibli, Ibrahim J.Mammadov, On the electrostatic field in expansion dynamics of gas bubbles
3. G.M. Panahov, E.M. Abbasov, Afet O. Yuzbashiyeva, Vusale J. Balakchi, Clay swelling characteristics in electrolyte solutions
4. J.H. Agalarov, G.A. Mamedova, M.A. Rustamova, Bischarge wave in flat net
5. E.M.Abbasov, N.A.Agaeva, Simulation of fluid flow in conjugate reservoir-well-pipeline system
6. S. Suleimanova, Energy of an AC electric field in a semi-infinite electron plasma with mirror boundary conditions
7. Sh.A.Kerimova, Integral modeling of gas well operation taking into account reservoir deformability
8. R.M.Tagiyev, The solution algorithm for finding the coefficient of hydraulic resistance in the process of gas lift
9. G.R. Mirzayeva, A.H. Movsumova, Oscillations of anisotropic rectangular plate lying on non-homogeneous viscous elastic base
10. Ch.S. Huseynzade, On the study of the stress-strain state of thin-walled shell structures under radiation exposure

11. A.I. Khudiyeva, Disturbances on the surface of stratified flow of two incompressible viscous liquids in narrow channel

Wednesday, October 23th, 2019

Section -Algebra and Geometry

15:00-18:00

HALL 8

Chairmen: prof. A. Salimov, dos. A.A. Babaev

1. A. Salimov, T. Sultanova, On holomorphic pseudo-Riemannian manifolds
2. A.A. Babaev, V.F. Majlumbayova, On the ideas of mathematical logic in the works of Nasireddin Tusi
3. I.Sh. Jabbarov, N.Sh. Aslanova, On a quadratic form agreed with the norm in one algebraic extension
4. N.Y. Aliyev, On Mappings of p-dimensional surfaces in Euclidean spaces E^n
5. H. Fattayev, An almost para-complex structures on the linear coframe bundle
6. A.I. Shahbazov, V.M. Mammadova, Z.A. Panahova, Maximal ideals and compact weighted endomorphisms of functional algebras
7. E.M. Mamedov, H.K. Kazimov, About the influence of quantifier in the modal propositions
8. S. Meshaik, Minimal subalgebras generated by unary 2-functions in algebra

Thursday, October 24th, 2019

Section -Functional Analysis and Applied Mathematics

14:00-18:00

HALL 1

Chairmen: prof. S.A.Aliev, prof. H.M. Huseynov

1. S.A. Aliev, I.A.Ibadova, Branching process with special generating function
2. K.F. Abdullayeva, Asymptotic formulas for eigenvalues and eigenfunctions of a fourth-order eigenvalue problem with a spectral parameter in the boundary condition

3. G.M. Eyvazlı, One unique solvability of a boundary value problem for a fourth order operator-differential equation on finite segment in Hilbert space
4. H.A. Nagiev, Visualization of control of isobutene dehydrogenation process based on phase trajectories method
5. E.A. Ibayev, V.M. Mammadov, Investigation of the distribution of the time of the semimarkov random walk process with negative drift and positive jumps within a band
6. R.I. Shahbazov, Convergence of spectral expansion in eigenfunctions of odd order differential operator

Thursday, October 24th, 2019

Section - Mathematical Analysis, Function Spaces

14:00-18:00

HALL 2

Chairmen: prof. Z.S. Aliyev, prof. of ANAS R.A. Bandaliyev

1. M. Karakhan, On the generalization of some classical formulas for sums of number series
2. V.S. Guliyev, Riesz potential and its commutators in variable exponent vanishing generalized weighted Morrey spaces
3. R.V. Makarov, R.G. Nasibullin, Hardy type inequalities with additional nonnegative terms
4. M.S. Dzhabrailov, S.Z. Khaligova, Some embedding theorems on Banach valued Besov spaces
5. R. Mustafayev, N. Bilgiçli, Boundedness of weighted iterated Hardy-type operators involving suprema from weighted Lebesgue spaces into weighted Cesaro function spaces
6. O.G. Azizov, On smoothness of the derivative of a simple layer potential with a unique density for a continuous differential form in domain of rhombs
7. A.E. Abdullayeva, On convergence of Bernstein-Chlodowsky-Kantorovich operators sequence in variable Lebesgue spaces
8. A. Mammadova, On approximation theorem in weighted Lebesgue spaces
9. K. Safarova, R.A. Bandaliyev, On boundedness of the adjoint multidimensional Hausdorff operator in weighted Lebesgue spaces
10. F. Aliyev, Some properties of the Riesz potential

Thursday, October 24th, 2019
Section -Harmonic Analysis, Approximation

14:00-18:00

HALL 3

Chairmen: Prof. of ANAS, V.E. Ismailov, prof. of ANAS R.A. Aliev

1. A.Kh. Asgarova, A. M-B. Babayev, I.K. Maharov, On the approximation by radial functions with fixed centers
2. R.A. Aliev, Ch.A. Gadjieva, On approximation of the Hilbert transform
3. A.M. Musayev, Asymptotic value of approximation of generalized differentiable functions by m-singular integrals
4. T.B. Gasymov, T.F. Qasimov, Basis property of the system of eigenfunctions corresponding to a problem with a spectral parameter in the boundary condition
5. T.B. Gasymov, B.T. Gahramanly, On basicity of eigenfunctions of one discontinuous spectral problem in weighted Lebesgue spaces
6. A.A. Asgarova, Holder continuity in ridge function representation
7. M. Djahangiri, An Approximation Method for Finding Total Dominating Set
8. M.I. Ismailov, S.I. Jafarova, Vector-valued generalization of continuous frames

Thursday, October 24th, 2019
Section -PDE and Mathematical Physics

14:00-18:00

HALL 4

Chairmen: prof. A. Shamilov, dos. A. Guliyev

1. M.S. Filipkovska, Existence, uniqueness and boundedness of global solutions of non-stationary degenerate differential equations
2. A. Shamilov, N. Ince, On new method to obtain probability density function of solution of stochastic differential equations
3. I. Usta, Parameter estimation for geometric process with power Ishita distribution
4. H. Musayev, T.G. Najafaliyev, Coercive estimate for abstract elliptic equations with parameters

5. M.M. Sabzaliev, I.M. Sabzalieva, Asymptotics of the solution of a boundary value problem in an infinite strip for an arbitrary type singularly perturbed quasilinear non-classic type differential equation
6. A.V. Tsyganov, Yu.V. Tsyganova, Parameter identification of convection-diffusion transport models in the presence of noisy measurements
7. S.M. Mammadli, A decay condition for small coefficients of elliptic equations for uniqueness in cone condition unbounded domains
8. F.I. Mamedov, V.A. Mammadova, Y.Shukurov, A Phragmen–Lindelöf type theorem for the elliptic equations with small coefficients in unbounded domains
9. N.A. Aliyev, A.Kh. Abbasova, N.Q. Mammadova, Necessary conditions connected with Helmholtz equation on semi-linear
10. S.T. Huseynov, R.M. Tagiyev, Holder continuity of solutions of the Laplace equation, of the uniformly degenerate on a part of the domain with respect to a small parameter
11. A. Shafiyeva, Restoration of source function in system of parabolic equations
12. H.Sh. Rzayeva, Bifurcation of solutions from infinity of linearizable one dimensional Dirac problems
13. I.V. Aliyev, Two-fold completeness of a system of root functions of the problem of the irregular boundary value problems of ordinary differential equations

Thursday, October 24th, 2019
Section -Optimal Control Problems

14:00-18:00

HALL 5

Chairmen: prof. T.K. Melikov, prof. H.F. Guliyev

1. M.A. Yagubov, R.B. Zamanova, On the solution of an optimal control problem for a third order equation

2. H.F. Guliyev, G.G. Ismailova, On the determination of the lowest coefficient of one weakly nonlinear wave equation in a mixed problem
3. H.F. Guliyev, Kh.T. Tagiyev, R.O. Hacıyeva, An optimal control problem by the coefficients of the wave equation with non local condition
4. H.F. Guliyev, Kh.I. Seyfullayeva, Optimal control problem for the weak nonlinear equation of thin plate with control at the coefficient of lowest term
5. M.A. Sadygov, On the subdifferential of the second order and the optimality condition
6. T.K. Melikov, E.Sh. Mamedov, S.T. Malik, Second order necessary conditions for strong and weak extrema in the calculus of variations
7. K.B. Mansimov, R.O. Mastaliyev, An analog of the method dividing the Lagrange multiplier to terms in Goursat-Darboux stochastic systems
8. Y.R. Ashrafova, Solution to the large systems of differential equations of block structure and its application
9. S.I. Yusifov, A.B. Hasanov, Optimization of operation of system of data mining technologies on the basis of the integrated modern module of the gas lift processes
10. I.G. Mamedov, H.R. Nagizade, Arithmetical Middle Boundary Problem in the Non-Classical Treatment for one Generalized Allier Equation with Non-Smooth Coefficients
11. I.G. Mamedov, A.J. Abdullayeva, Fundamental solution of geometric middle boundary problem for one integro-differential equation of 3d Bianchi

Thursday, October 24th, 2019

Section -Method of Teaching and History of Mathematics

14:00-18:00

HALL 6

Chairmen: prof. R.M. Aslanov, prof. M.A. Rodionov

1. R.M. Aslanov, V.V. Sushkov, About implementation of complex analysis informative and methodical lines in the problem book of the complex variable theory

2. I.K. Kondaurova, A.A. Korostelev, Master's Program «Professional Oriented Mathematics Education»
3. M.A. Rodionov, Intuition as a motivator of mathematical creativity (historical and methodological analysis)
4. I. Rustamov, Characteristics and functions of mathematical education
5. N.I. Lobanova, Organization of work with gifted children in the system of additional education
6. D.V. Galushkina, N.V. Sidorova, Development the educational course "orthogonal transformation methods"
7. G.G. Gasimov, N.V. Mammadov, Decomposition of one linear programming problem with complex structures
8. M.N. Haydarova, V.D. Rustamov, First lady of comet– Caroline Lucrezia Gershell

Thursday, October 24th, 2019

Section -Mechanics

14:00-18:00

HALL 7

Chairmen: prof. G.G. Aliyev, prof. L.Kh. Talybly

1. M.F. Mekhtiyev, L.F. Fatullayeva, N.I. Fomina, A variational approach to solving the problem of the stability of a gentle arch
2. S.D. Akbarov, E.T. Bagirov, "Forced vibration of the" hollow cylinder + surrounding elastic medium" system with inhomogeneous initial stresses"
3. L.Kh. Talybly, The method of solution of general quasistatic problem of the linear viscoelasticity theory and its application
4. H.A. Mammadova, Corrosive failure of thick-walled pipe under the action of torque
5. M.A. Mamedova, The solution of problem of determination of stress-strain state of a circular viscoelastic beam with semi-circular longitudinal neck at torsion
6. N.M. Nagiyeva, On lateral vibrations of exponentially inhomogeneous anisotropic rectangular plate lying on viscoelastic foundation

7. G.G. Aliyev, Base of nanohydrodynamics of viscous fluid with regard to quantum-mechanical effects
8. K.Sh. Mammadov, S.Y. Huseynov, I.I. Bakhshaliyeva, Optimal placement of offshore oil-gas platforms with data in the form of intervals
9. Y.I. Rustamov, Sh.S. Askerova, Assessment of soil fertility based on the theory of reliability

Friday, October 25th, 2019

Section -Functional Analysis and Applied Mathematics

14:00-16:00

HALL 1

Chairmen: prof. M. Bayramoğlu, prof. V.M. Gurbanov

1. I.H. Mirzazade, Differential diagnosis on the basis classification of the biosystems
2. H.M. Huseynov, N.A. Magsudova, About one inverse problem for Sturm-Liouville operator
3. A.N. Jabrailova, A.Sh. Shukurov, On frames that are iterates of a multiplication operator
4. F.G. Ragimov, I.A. Ibadova, A.D. Farkhadova, Central limit theorem for a family of the first passage times of the level by a random walk described by the autoregression process of order one
5. Yu.G. Abbasova, On the rate of component wise equiconvergence for a third-order differential operator with matrix coefficients
6. N.I. Veliyeva, K.A. Kuliyeu, Parameterization of stabilizing regulators over of part of the phase coordinates in the discrete case
7. A.M. Akhmedov, H.S. Masimova, On the generalized spectral operators
8. X.A. Asadov, Global bifurcation of some nonlinear eigenvalue problems with a spectral parameter in the boundary condition
9. N.B. Kerimov, Z.S. Aliyev, On a boundary value problem for the equation of a vibrating rod with spectral parameter contained linearly in the boundary conditions
10. F.M. Namazov, Uniform convergence of Fourier series expansions in the system of root functions of a spectral problem corresponding to bending vibrations of a homogeneous rod

Friday, October 25th, 2019
Section - Mathematical Analysis, Function Spaces

14:00-16:00

HALL 2

*Chairmen: Corr. - member of ANAS, prof. V.S. Guliyev
dos. E.J. Ibrahimov*

1. E.J. Ibrahimov, G.A. Dadashova, Some weighted inequalities G -fractional integrals
2. S.G. Hasanov, Characterization of maximal operators in generalized weighted Orlicz-Morrey spaces
3. A.A. Hasanov, Rough multilinear fractional maximal operator on generalized weighted Morrey spaces
4. M.N. Omarova, Global regularity in Orlicz-Morrey spaces of solutions to parabolic equations with VMO coefficients
5. J.V. Azizov, Fractional maximal operator in generalized Morrey spaces on Heisenberg group
6. A.F. Ismayilova, Fractional maximal operator on generalized weighted Morrey spaces
7. V.A. Mekhrabov, Oscillation properties of eigenfunctions of a spectral problem with spectral parameter contained in the boundary conditions
8. L.R. Aliyeva, Solution of a boundary value problem for the Bessel-Helmholtz equation

Friday, October 25th, 2019
Section -PDE and Mathematical Physics

14:00-16:00

HALL 4

Chairmen: prof. T.S. Gadjiyev, prof. F.I. Mamedov

1. Sh.G. Bagyrova, M.C. Aliyev, The absence of global solutions to a semilinear parabolic equation with a biharmonic operator in the main part
2. Z.F. Khankishiyev, Solution of a nonlocal problem for a linear differential hyperbolic equations

3. A.S. Farajov, K.S. Abusheva, On solvability of an nonlocal boundary value problem for the parabolic -hyperbolic equation type
4. L.Sh. Abdulkerimli, Integration of a certain class of second-order quasilinear differential-operator equation
5. Sh.Yu. Salmanova, The Dirichlet problem of semilinear elliptic equations
6. A. Guliyev, The sufficient condition for the regularity of boundary point with respect to the Dirichlet problem for the parabolic equations second order
7. N.M. Aslanova, Kh.M. Aslanov, On selfadjoint extensions of symmetric operator with exit from space
8. E.M. Mamedov, On behavior of solution for nonlinear problem
9. V.Yu. Mastaliyev, On the existence of the solution of a mixed problem for a class of equations with typical degeneration
10. A.M. Jafarova, Nearest-neighbour interaction with qubit transfer in fermion spin chain based on difference equations for Racah polynomials
11. N.M. Sulyemanov, D.E. Farajli, On Wiman-Valirion-type estimations for the solutions of parabolic equations

Konfransın bağlanması
25 oktyabr 2019-cu il, 16.00-da
Zal 1



Closing of the conference
25 October, 2019 at 16.00
HALL 1