

Moscow State University of Technology “STANKIN”

PROGRAM

International Conference

***THE SAMARSKII READINGS (IN MEMORY OF ACADEMICIAN
A. A. SAMARSKII) (SR-2021)
December 22 – 25, 2021***

Moscow
2021

SCHEDULE

22.12.2021	Opening, Plenary session – 12.30- 17.00
23.12.2021	Plenary session - 15.00-18.40
24.12.2021	Plenary session - 11.00 -13.40
25.12.2021	Plenary session - 11.00-13.30
23.12.2021	Section3. PROBLEMS OF ARTIFICIAL INTELLIGENCE AND C CONTROL 11.00-14.00 Section1. MATHEMATICAL MODELING METHODS AND APPLICATIONS 10.00-14.00 Section 2. MODELING OF PHYSICAL AND CHEMICAL PROCESSES 9.30- 14.45
24.12.2021	Section 5. MODELING IN TECHNICAL SYSTEMS 14.00-17.00 Section 4. ECONOMIC AND SOCIAL MODELS 14.00-18.15 Section 2. MODELING OF PHYSICAL AND CHEMICAL PROCESSES 14.00-17.00
23.12- 24.12. 2021	POSTER SESSION

- **Invitations to participate in the ZOOM conference will be sent by the Organizing Committee and the section chairs;**
- **Please send your proposals for inclusion in the conference Decision to the organizing Committee by December 30, 2021;**
- **To publish papers in a special issue of Frontier materials and technologies (Publishing House "Vector of Science"), it is necessary to send the planned title of the articles and the names and surnames of the authors to the Organizing Committee by 30.12. The deadline for submitting the texts of articles will be announced after agreement with the editorial board in mid-January 2022. The issue is included in the SCOPUS database and will be published in the fall of 2022. Subject: materials, methods of mathematical modeling. The publication language is English.**
- *(Для публикации трудов в специальном выпуске of Frontier materials and technologies (Издательство «Вектор науки») необходимо прислать планируемое название статей и фамилии и имена авторов до 30.12 в Организационный Комитет. Сроки предоставления текстов статей будут сообщены после согласования с редакцией в середине января 2022 г. Выпуск входит в базу SCOPUS и будет опубликован осенью 2022 г. Тематика: материалы, методы математического моделирования. Язык публикации - английский);*

- An agreement has been reached in principle to publish articles in one of the journals: (more methodological) APPNUM and (more modeling-oriented) MATCOM. The journals are included in the WoS database (Q1). Usually all the participants have to become IMACS members (30 euro regular, 15 student fees). Information about the journals and about the Mathematical Society can be found on the website: www.imacs-online.eu. The deadlines for submitting articles and other necessary information will be provided additionally.

(Достигнута принципиальная договорённость о публикации статей в одном из журналов: (более методологический) APNUM и (более ориентированный на моделирование) MATCOM. Журналы входят в базу WoS (Q1). Обычно все участники должны стать членами IMACS (взнос 30 евро и 15 евро для студентов). Информация о журналах и о математическом обществе находится на сайте: www.imacs-online.eu. Сроки предоставления статей и другая необходимая информация будет сообщена дополнительно.)

Registration will take place on 22.12.2021 in the hall at the entrance to MSTU "STANKIN" and on other days of the conference at the Department of Applied Mathematics (rooms 357a, 357b). During the conference and after its completion, you can get stationery and certificates of participants. A collection of conference materials will be published after the conference (approximately in February). Participants will be able to receive it at the department or by e-mail in pdf.

- The meeting on 22.12.2021 and the session of section 5 will be held in a mixed mode. The rest of the meetings will be held ONLINE, as the vast majority of participants have written a wish about this mode in their registration forms.

Note. There may be minor changes to the conference program

Address: 1 and 3a, Vadkovskii lane, MSUT "STANKIN", "Mendeleevskaya" Metro Station, two stops by any bus to "Vadkovskii pereulok" (towards Savelovskaya Metro Station)

Contact: Organizing Committee +7(499) 972-95-20, +7(499)972-94-59

Room 404 or 357a, Department of Applied Mathematics,
Vadkovskii lane, 3a
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PLENARY INTERNET-SESSION

Wednesday, 22.12.2021

Lecture Hall 0311

12.30. Opening

12.45. B.N. Chetverushkin (Russia). THE TALK WILL BE ANNOUNCED.

13.25. L.I. Lapushkina (Russia). ALEKSANDER ANDREEVICH SAMARSKII. MEMORIES.

13.45. M.V. Yakobovskii (Russia). THE TALK WILL BE ANNOUNCED.

14.15. A.S. Sigov (Russia). THE TALK WILL BE ANNOUNCED.

14.45. BREAK

15.00. P.V. Moskalev (Voronezh, Russia). ON WEIGHT DISTRIBUTIONS IN LATTICE PERCOLATION MODELS

15.40. Rznichenko G.Yu. (Moscow, Russia). MOLECULAR MODELS OF INTERACTION OF MACROMOLECULES IN BIOLOGICAL NANOSTRUCTURES

16.20 Yiqi Zhang¹ and Milivoj R. Belić (Qatar). WEIRD LIGHT PROPAGATION IN STRANGE AND NOT-SO-STRANGE SYSTEMS: FROM ACCELERATING AIRY TO FRACTIONAL SCHRÖDINGER

17.00 END OF THE FIRST DAY OF THE CONFERENCE

Thursday, 23.12.2021

Chairman: L.A.Uvarova

15.00. V. D. Lakhno (Pushchino, Russia). INFORMATION TECHNOLOGIES BASED ON DNA NANOBIOELECTRONICS.

15.40. P.M. Lima and T. Sequeira (Portugal). NUMERICAL APPROXIMATION OF TWO-DIMENSIONAL STOCHASTIC NEURAL FIELD EQUATIONS WITH FINITE TRANSMISSION SPEED

16.20. S. Pinelas (Portugal). BEHAVIOR AND STABILITY OF SOLUTIONS IN MIXED DIFFERENTIAL EQUATIONS.

17.00. BREAK

17.20. A.E. Arinstein (Israel). IMITATION MODELING OF COMPLEX NANO-SYSTEMS

18.00. M.E. Mazurov (Moscow, Russia). FORECASTING THE IMPACT OF VACCINATION, QUARANTINE MEASURES ON THE DYNAMICS OF THE COVID-19 PANDEMIC

18.40. END OF THE SECOND DAY OF THE CONFERENCE

Friday, 24.12.2021

Chairman: L.A.Uvarova

11.00. A.V. Shapovalov, A.E. Kulagin, S.A. Siniukov (Tomsk, Russia). SEMICLASSICAL ASYMPTOTICS IN NONLOCAL KINETIC MODELS

11.40. V.P. Maksimov (Prem, Russia). ON CONTROL PROBLEMS FOR CONTINUOUS-DISCRETE DYNAMIC MODELS.

12.20. S.D. Traytak (Moscow, Russia). BEYOND SAMARSKII'S BOOKS: SOME EXTENSIONS OF THE CLASSICAL PROBLEMS

13.00. A.I. Lobanov (Moscow, Russia). ANALYSIS OF DIFFERENCE SCHEMES IN SPACES OF INDETERMINATE COEFFICIENTS AND CONNECTION WITH LINEAR AND QUADRATIC PROGRAMMING PROBLEMS.

Saturday, 25.12.2021

Chairman: L.A.Uvarova

11.00. V.M.Komarov, A.A.Savchenko (Pushchino, Russia). FEATURES OF THE STRUCTURAL AND FUNCTIONAL ORGANIZATION OF GENOMIC DNA

11.40. A.A. Grinevich (Pushchino, Russia). MATHEMATICS IS A UNIVERSAL "MICROSCOPE" OF MODERN BIOLOGY

12.20. – 13.30. CLOSING OF THE CONFERENCE

SECTIONAL PRESENTATIONS

5. MODELING IN TECHNICAL SYSTEMS

Format: 15 minutes-talk, 5 minutes- discussion

The number of the meeting room will be announced later.

Friday, 24.12.2021, 14. 00 – 17.00

Chairman: P.M. Pivkin

Novikov V. Yu. , Fetkulov E.T. (Moscow, Russia). THE PROCESS OF FORMATION OF CAVITATION WEAR OF TURBOPUMP UNITS AND WAYS TO REDUCE IT USING SURFACE PLASTIC DEFORMATION OPERATIONS.

Kuznetsov L.Yu. (Moscow, Russia). MATHEMATICAL MODELING OF THE SYSTEM OF TECHNOLOGICAL MAINTENANCE OF THE OPERABILITY OF AUTOMATED EQUIPMENT.

D.A. Masterenko (Moscow, Russia). DIFFERENTIAL GEOMETRIC MODEL OF VOLUMETRIC ACCURACY OF MULTI-COORDINATE MACHINES

Grechishnikov V. Prikhodko A. (Moscow, Russia). DETERMINATION OF THE DEPENDENCE OF THE HEIGHT OF THE MICRO-DIMENSIONS ON THE LOCATION OF THE CUTTING TOOL WHEN TURN-MILLING PARTS IN THE SHAPE OF A BODY OF ROTATION WITH A DISK CUTTER.

Pivkin P.M. (Moscow, Russia). A NEW APPROACH TO EDGE MODELING ON THE TOROIDAL PRODUCING SURFACE OF A MILLING CUTTER

Pivkin P.M., Grechishnikov V.A., Ershov A.A., Mironov N. (Moscow, Russia).

MATHEMATICAL MODEL OF THE BACK SURFACE OF A THREE-PRONGED DRILL

Pivkin P.M., Nadykto A.B., Malakhinsky A.P., Minin I.V., Khastsaev S. (Moscow, Russia). IMPROVING THE ACCURACY OF PROCESSING SMALL-SIZED CUTTING PLATES DURING ELECTROEROSION WIRE CUTTING

Grechishnikov V.A., Isaev A.V. (Moscow, Russia). MODELING OF A SHAPED MILLING CUTTER WITH A CONSTANT PITCH OF CUTTING ELEMENTS

R. Kamenov (Almetyevsk, Russia). THE TALK WILL BE ANNOUNCED.

3. PROBLEMS OF ARTIFICIAL INTELLIGENCE AND C CONTROL

Format: 15 minutes talk+3 minutes for questions

Thursday, 23.12.2021

11.00- 14.00

Chairman: G.D. Volkova, T.B. Tyurbееva

E. Bagimov, M. Kliuev (Moscow, Russia). RATIONALIZATION OF INFORMATION RETRIEVAL USING A NEURAL NETWORK.

Abramov D.V., Abramova M.S. (Moscow, Russia). NEURAL NETWORKS AND GENETIC ALGORITHMS AS PART OF ARTIFICIAL INTELLIGENCE. APPLICATION IN THE FAMILY OF PROGRAMS ON THE 1C PLATFORM: ENTERPRISE"

M.Y. Ibatullin (Moscow, Russia). METHODS OF FORMALIZED REPRESENTATION OF THE INTELLECTUAL RESOURCES MANAGEMENT SYSTEM OF AN INDUSTRIAL ENTERPRISE
M.E. Mazurov (Moscow, Russia). MODELING SIMPLE THINKING BASED ON COMPLEX CONDITIONED REFLEXES.

O.V. Novoselova (Moscow, Russia). ORGANIZATION OF THE ACCESS SYSTEM TO THE INFORMATION STRUCTURE OF THE ONTOLOGICAL MODEL

D.A. Zinchenko (Moscow, Russia). USING MACHINE LEARNING IN DETERMINING THE SPACECRAFT ORIENTATION

G.D. Volkova, T.B. Tyurbееva (Moscow, Russia). INTELLIGENT TECHNOLOGIES AND PRODUCTS: CHALLENGES, PROBLEMS AND PROPOSALS FOR STANDARDIZATION BASED ON THE THEORY AND PRACTICE OF AUTOMATION OF INTELLECTUAL WORK.

Shlaev V.I. Bilchuk M.V., Tyasto S.A. (Moscow, Russia). A SOFTWARE PACKAGE FOR AUTOMATING THE DATA REGISTRATION PROCESS OF A MULTICHANNEL ELECTRICAL SIGNAL SYSTEM.

Vatanieva Sh.V., Bilchuk M.V. (Moscow, Russia). RISKS OF AUTOMATION OF EDUCATIONAL ACTIVITIES. MATHEMATICAL MODELS AND RISK ASSESSMENT METHODS

Masyukov Maxim, Rozhnov Aleksei, V.A. Trapeznikov (Moscow, Russia). DIVERSIFICATION OF ELEMENTS OF SPACE TRAFFIC CONTROL TECHNOLOGIES BASED ON A RETROSPECTIVE EXAMPLE OF THE COMPLETION OF THE OPERATION OF AN AEROSPACE SYSTEM

4. ECONOMIC AND SOCIAL MODELS

Format: 15 minutes talk+3 minutes for questions

Friday, 24.12.2021 14.00- 18.15

Chairman: T.V. Ryzhkova

A.V. Nikolaev, L.Y. Kuznetsov (Russia, Ulyanovsk, Moscow). IMPROVING THE QUALITY OF WORK OF INDUSTRIAL ENTERPRISES THROUGH THE USE OF MULTI-CRITERIA OPTIMIZATION METHODS IN MES SYSTEMS

V.G. Maracha, S.V. Bespalov (Moscow, Russia). THE "DIGITAL GOSPLAN" MODEL AS A RUSSIAN RESPONSE TO THE CRISIS OF CAPITALISM

O.E. Pyrkina (Moscow, Russia). RESEARCH OF CONTROL SYSTEM FOR ELECTRONIC MONEY TURNOVER WITH THE HELP OF SIMULATION TECHNIQUES

M.V. Mikhailova, V.A. Dmitrieva, T.V. Vereitinova, I.A. Mikhailov (Moscow, Russia).

REFLECTION OF STUDENTS' PREFERENCES IN THE PROCESS OF FORMATION OF DEVELOPING TECHNOLOGIES OF ONLINE EDUCATION

T.V. Ryzhkova, T.Y. Makhina (Moscow, Russia). PROJECT TECHNOLOGIES OF TEACHING AT AN ECONOMIC UNIVERSITY ON THE EXAMPLE OF TIME SERIES ANALYSIS

I.A. Korzun, V.I. Shupranova (Moscow, Russia). GENERATION OF SYNTHETIC DATA FOR FRAUD DETECTION USING GAN

BREAK 15 min

O.V. Stikhova (Moscow, Russia). MATHEMATICAL CALIBRATING AND SIMULATING FUNCTIONS IN INDUSTRIAL COMPANIES APPLICATION

E.YU. SHCHETININ (Moscow, Russia). AUTOMATED DETECTION OF COVID-19 CORONAVIRUS INFECTION BASED ON ANALYSIS OF CHEST X-RAY IMAGES WITH DEEP LEARNING MODELS

E.YU. SHCHETININ (Moscow, Russia). ON DEEP TRANSFER LEARNING METHODS IN CLASSIFICATION OF BIOMEDICAL IMAGES

Kuznetsova N. M., Karlova T.V. (Moscow, Russia). AUTOMATION OF INFORMATION SECURITY OF COMMUNICATIONS IN THE DEVELOPMENT OF A COMMON SOFTWARE PRODUCT BY CO-EXECUTORS

E.P. Mitrofanov, A.G. Kulagina, T.V. Antipova (Cheboksary, Moscow, Russia). FORMATION OF A MODEL FOR DIAGNOSING THE LEVEL OF FINANCIAL ACTIVITY OF REGIONAL ORGANIZATIONS

Nikolskaya V.A., Koshkina G.V., Koshkina K.E. (Tver). FEATURES OF THE APPROACH TO PERSONNEL EVALUATION IN THE ORGANIZATION MANAGEMENT SYSTEM IN THE FIELD OF SMALL BUSINESS

D. M. Silantyev (Moscow, Russia). THE THEORY OF CATASTROPHES IN CLIOLOGY (PSYCHOHISTORY)

18.15. END OF THE THIRD DAY OF THE CONFERENCE

1. MATHEMATICAL MODELING METHODS AND APPLICATIONS

Format: 15 minutes talk+3 minutes for questions

Thursday, 23.12.2021

10.00- 14.00

Chairman: O.E. Yaremko

A.V. Shatrov (Russia, Kirov). USING OF PADÉ APPROXIMANTS TO BOUNDARY LAYER PROBLEMS

M.A. Trapeznikova, A.G. Garibyan, N.G. Churbanova, A.A. Chechina (Moscow, Russia). SOFTWARE ENVIRONMENT FOR MODELING AND VISUALIZATION OF ROAD TRAFFIC FLOWS

A. A. Sadkov, V. N. Popov (Arkhangelsk, Russia). SEARCH FOR A STABLE STATE OF A CONTINUOUS MEDIUM WITH A NON-LOCAL INTERACTION DEPENDING ON THE INTERACTION POTENTIAL

N.A. Stukalova, M.A. Smirnova, G.V. Koshkina, A.A. Gusarov, L.V. Semiletova (Tver, Russia). MODELING OF EMERGENCY SITUATIONS

S.T. Belyakin (Moscow, Russia). IMPLEMENTATION OF THE CHIRALITY METHOD IN ACTIVE AND INACTIVE NEURAL NETWORKS

O.N. Shablovsky (Belarus). NONLINEAR WAVES IN A SPATIALLY NONLOCAL MEDIUM.

L.Yu. Kuznetsov (Moscow, Russia). DEVELOPMENT OF A MODEL FOR SOLVING THE PROBLEM OF EQUALIZATION OF EQUIPMENT LOADING BASED ON THE MULTI-CRITERIA OPTIMIZATION METHOD

BREAK

A.S. Gusev, S.A. Starodubtseva, V.A. Eremyants (Moscow, Russia). ON THE CALCULATION OF THE RELIABILITY OF THIN-WALLED SHELLS UNDER RANDOM INFLUENCES

A.D. Sinyk, A.A. Tarasov (Saint-Petersburg, Russia). EFFICIENCY OF SEPARATE TRANSMISSION OF THE INFORMATION BLOCK AND THE BLOCK OF VERIFICATION SYMBOLS OF THE CODE WORD OF THE NOISE-RESISTANT CODE

V.V. Cherkasova (Orel, Russia). DEVELOPMENT OF A MATHEMATICAL MODEL OF MOTION OF AN EQUIPPED SPHERE ON A SURFACE IN EUCLIDEAN SPACE USING CURVILINEAR MULTIPLICATIVE INTEGRAL

N.G. Churbanova, M.A. Trapeznikova, A.G. Churbanov, V.V. Yemets ((Moscow, Russia). MODELING OF FLOW IN AN ARRAY OF CYLINDERS USING A QUASI-GAS-DYNAMIC SYSTEM OF EQUATIONS

N.N. Karabutov (Moscow, Russia). ON THE EVALUATION OF THE STRUCTURAL IDENTIFIABILITY OF NONLINEAR SYSTEMS WITH FEEDBACK

O.E. Yaremko, N.N. Yaremko (Moscow, Russia). LAPLACE AND MELLIN INTEGRAL TRANSFORMS MIX AND THEIR APPLICATIONS

2. MODELING OF PHYSICAL AND CHEMICAL PROCESSES

Format: 15 minutes talk+2 minutes for questions

Thursday, 23.12.2021, 9.30 – 14.45, 24. 12. 2021, 14.00- 17.00

Chairman: E.M. Krasikova, O.B. Nadykto (24.12)

9.30 – 14.45

E.V. Zavitaev, T.E. Simonova, A.I. Utkin (Russia, Mytishchi). THE INFLUENCE OF KINETIC EFFECTS ON THE INTERACTION OF AN H-WAVE WITH A THIN METAL LAYER IN THE CASE OF THE DEPENDENCE OF THE ELECTRON SPECULARITY COEFFICIENTS ON THE METAL SURFACE ON THE ANGLE OF INCIDENCE

E.V. Zavitaev, O.V. Rusakov, K.E. Kharitonov (Mytishchi, Orekhovo-Zuyevo, Russia). COMPARISON OF THE RESULTS OF THE CALCULATION OF MAGNETIC INDUCTION INSIDE A THIN CYLINDRICAL METAL WIRE WITH EXPERIMENTAL DATA

E.N. Sosenushkin, O.K. Ivanova, E.A. Yanovskaya, Yu.A. Vinogradova, T. A. Kinzhaev (Moscow, Russia). MATHEMATICAL MODELING OF HEAT EXCHANGE PROCESSES OF SOLIDS

E.N. Sosenushkin, V. A. Kadymov, E.A. Yanovskaya (Moscow, Russia). ON THE QUESTION OF SOLVING THE L. PRANDTL PROBLEM IN RELATION TO A RECTANGULAR FLANGE WITH STIFFENERS

Nazarenko E.S., Korobov N.A., Nazarenko K.M., Markov P.N., Nadykto A.B., Uvarova L.A. (Moscow, Russia). STATISTICAL ANALYSIS OF CONFORMATIONAL SEARCH PERFORMANCE.

D.S. Klyuev, A.M. Neshcheret, O.V. Osipov, A.A. Potapov (Samara, Moscow, Russia, Guangzhou, China). CALCULATION OF CHARACTERISTICS OF MULTILAYER PLANAR CHIRAL METAMATERIALS BASED ON MATRIX METHODS.

M.V. Masyukov (Balashikha, Russia). PROCESSING OF DATA OBTAINED DURING EXPERIMENTAL STUDIES OF THE GORENJE PROCESS, USING THE "HARDWARE-IN-THE-LOOP".

Alekic N.B., Alekic B.N., Uvarova L.A (Serbia, Russia). THERMAL NONLINEARITY IN LASER BEAM PROPAGATION IN NANOSUSPENSIONS.

BREAK 15 min

L. L. Ogorodnikov, I.V. Kolokolov (Moscow, Chernogolovka, Russia). DYNAMICS OF MAGNETIC FIELDS IN A QUASI-TWO-DIMENSIONAL VORTEX FLUID FLOW

L. L. Ogorodnikov, S. S. Vergeles (Moscow, Russia). STUDY OF CORRELATION PROPERTIES OF A THREE-DIMENSIONAL COHERENT VORTEX

O.V. Germider, V.N. Popov (Arkhangelsk, Russia). CALCULATION OF THE POISEUILLE NUMBER IN THE ANNULAR CHANNEL TAKING INTO ACCOUNT CROSS-EFFECTS

I.V. Ivanov, O.K. Ivanov (Kaluga, Moscow, Russia). MATHEMATICAL MODELING OF ADSORPTION ISOTHERMS IN POLYMER IONITES

N.V. Averin, A.S. Asaev, M.B. Klyuev, A.A. Kutin, N.N. Tatarnikov (Ryazan, Moscow, Russia). RESEARCH OF THE INFLUENCE OF THE CURRENT STRENGTH ON THE VOLUMETRIC ELECTROEROSIVE TREATMENT OF CARBON-CARBON COMPOSITE SHUNK C226/2 P77.

Koshkina K.E., Nikitin S.A., Fomina E.E., Koshkina G.V. (Tver, Russia). NEURAL NETWORK METHODS OF SIGNAL PROCESSING IN RADAR.

V.L.Malyshev (Belarus). KINETICS OF HIGH-TEMPERATURE EVAPORATION OF LIQUIDS IN THE SYSTEM OF TRANSVERSE CHANNELS

I.V. Komov, E.M. Krasikova (Moscow, Russia). GENETIC ALGORITHM FOR SOLVING OPTIMIZATION PROBLEMS IN TECHNICAL SYSTEMS

Chairman: O.B. Nadykto

O.B. Nadykto (Moscow, Russia). CALCULATIONS OF PRESSURE OF HYDROGEN PLASMA BASED ON STATISTICAL SUM

A.A. Sharts (Moscow, Russia). ON PHOTON SIZE.

V.I. Zhuravlev, T.V. Ryzhkova (Moscow, Russia). ON THE STRUCTURE OF TIME SERIES OF MICROSEISMIC NOISE AT IRIS STATIONS IN TURKEY

S.A. Zheltov, L.V. Pletnev (Tver, Russia). THE FIRST AND SECOND COLLISIONS OF THREE ATOMS AFTER DEPARTURE FROM THE SURFACE OF THE CONDENSED PHASE

S.A. Zheltov, L.V. Pletnev, N.N. Chupyatov (Tver, Rzhev, Russia). THE INFLUENCE OF THE FIRST COLLISIONS OF ATOMS ON THE FORMATION OF UNIFORM LAYER DURING MOLECULAR BEAM EPITAXY

A.Glushkova, E. Shchetinin (Oxford, England, Moscow, Russia). DETECTION OF CARDIAC ARRHYTHMIAS BASED ON THE ANALYSIS OF ECG SIGNALS

L.A. Sevastianov (Moscow, Russia). X-RAYS LUNG IMAGES SEGMENTATION WITH U-NET BASED ENCODER-DECODER MODELS

Logvin V.A., Uvarova L.A., Karlova T.V. (Belarus, Russia). FEATURES OF TECHNOLOGICAL PREFERENCES IN THE MANAGEMENT OF QUALITY ASSESSMENT WHEN PROCESSING TOOLS IN A GLOW DISCHARGE PLASMA GENERATOR

Shchukin E.R., Shulimanova Z.L. (Moscow, Russia). MATHEMATICAL MODELING OF DIFFUSIOPHORETIC MOTION OF MODERATELY LARGE SOLID SPHERICAL PARTICLES INHOMOGENEOUS IN THERMAL PROPERTIES.

I.V. Krivenko, M.A. Smirnova (Tver, Russia). HEAT TRANSFER IN A DISPERSED SYSTEM CONTAINING ELONGATED PARTICLES.

Pleshkov A.A., Uvarova L.A. (Moscow, Russia). APPLICATION OF OPTICAL MULTISTABILITY FOR THE IMPLEMENTATION OF AN OPTICAL COMPUTER

POSTER SESSION

23.12 and 24.12

A.S. Gusev, L.V. Zinchenko, S.A. Starodubtseva (Moscow, Russia). ON SOLVING INCORRECT INVERSE PROBLEMS OF STATISTICAL DYNAMICS OF MECHANICAL SYSTEMS.

A.S. Gusev, S.A. Starodubtseva, A.A. Sakharov (Moscow, Russia). NONERGODIC MODELS OF RANDOM PROCESSES IN PROBLEMS OF APPLIED MECHANICS

I.I. Kolesnichenko (Moscow, Russia). DETERMINATION OF ANESTHETICS USED FOR ADULT OPHTHALMOLOGY IN TEAR FLUIDS BY MULTISENSORY STRIPPING VOLTAMMETRY METHOD

Romanova E.Yu., Uvarova L.A. (Tver, Moscow, Russia). FEATURES OF MODELING THE ELECTRONIC STRUCTURE OF COMPLEXING IONS IN BIOLOGICALLY ACTIVE NANOCOMPLEXES

Kunitsyna A.V. and Uvarova L.A. (Moscow, Russia). PHASE TRANSITIONS IN OPTICALLY NONLINEAR DISPERSED SYSTEMS UNDER THE ACTION OF ELECTROMAGNETIC WAVES

Merzlyakov V.D., Uvarova L.A. (Moscow, Russia). APPLICATION OF COPULAS IN THE ANALYSIS OF STOCHASTIC DIFFERENTIAL EQUATIONS

E.A. Neznanova, E.M. Krasikova (Moscow, Russia). MATHEMATICAL MODELING OF THE EFFECT OF ELECTROMAGNETIC RADIATION ON NANO- AND BIOSYSTEMS

Uvarova L.A., Phiyo Wei Lin, Sokolov A.V. (Moscow, Russia). MODELING OF THE PHASE TRANSITION OF THE FIRST KIND THROUGH NANOSTRUCTURES ON THE INTERFACE

A.O. Korepanova (Moscow, Russia). STUDYING SIGNALS IN THE SPACE-TIME SYSTEM

V.A.Kadymov, E.A.Yanovskaya (Moscow, Russia). SEDIMENT OF A PLASTIC LAYER WITH INHOMOGENEOUS PROPERTIES IN THICKNESS

Julia Elyseeva (Moscow, Russia). COMPARATIVE INDEX AND MASLOV INDEX