

МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ РОССИЙСКОЙ ФЕДЕРАЦИИ
Федеральное государственное бюджетное образовательное учреждение
высшего образования
«Донецкий национальный технический университет»



НАУЧНО-ПРАКТИЧЕСКАЯ КОНФЕРЕНЦИЯ ДЛЯ МОЛОДЫХ УЧЕНЫХ

**«YOUNG SCIENTISTS’
RESEARCHES AND ACHIEVEMENTS IN SCIENCE»
(НАУЧНЫЕ ИССЛЕДОВАНИЯ И ДОСТИЖЕНИЯ МОЛОДЫХ УЧЕНЫХ)**

15 АПРЕЛЯ 2026г.

Конференция состоится в дистанционном формате.
Начало работы конференции – 15 апреля 2026г. в 10.00.
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Организаторы конференции:

Председатель оргкомитета конференции – доцент, кандидат технических наук, заведующий кафедрой «Компьютерная инженерия», ректор ФГБОУ ВО «ДонНТУ»

Члены оргкомитета:

д.филол.наук, профессор, зав.кафедрой «Английский язык» ФГБОУ ВО «ДонНТУ»
Соснина Людмила Васильевна
старший преподаватель кафедры «Английский язык» ФГБОУ ВО «ДонНТУ»
Кушниренко Елена Николаевна

ПРОГРАММА КОНФЕРЕНЦИИ

Регламент выступлений:

*на секционных заседаниях – 5-7 минут;
в прениях – до 5 минут.*

Открытие конференции 15 апреля 2026г. в 10.00

Приветствие:

Руководитель конференции:

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«Английский язык» ФГБОУ ВО «ДонНТУ»

Ведущий конференции:

Калиниченко Сергей ПИ-25а

СЕКЦИЯ 1. Humanities

Координаторы:

д.филол.наук, проф. Соснина Л.В.

ст.преп. Бартенева В.Г.

Demchenko N.S., Cherepanova A.O.

FEATURES OF THE EXPRESSION OF VERBAL AGGRESSION IN THE
FOREIGN NEWSPAPERS' TEXTS

Krizhanovskaya A. P.

WAYS OF REPRESENTING IMPERATIVE PRESCRIPTIVE
CONSTRUCTIONS

Istomina K.V., Sokolova O. V.

DEVELOPMENT OF ENTREPRENEURIAL AND MANAGERIAL
COMPETENCIES IN ENGINEERS AS A FACTOR OF TECHNOLOGICAL
SOVEREIGNTY

Kachamina A.V., Chentsov N.A., Romanko V.V.

A STUDY OF THE ORGANIZATIONAL AND FUNCTIONAL STRUCTURES
OF THE EDUCATIONAL-METHODOLOGICAL DEPARTMENT FOR THE
DEVELOPMENT OF A QUALITY MANAGEMENT SYSTEM IN A HIGHER
EDUCATION INSTITUTION

Melnik O.V., Kuksina O.I.

THE RELEVANCE OF ECOLOGICAL DISCIPLINES IN OUR TIME

Orlyak K.A., Maksimenko A.V, Grishanova E.V.

MORAL AND ETHICAL VALUES OF A MODERN PEDAGOGUE

Ostapenko A.A., Blinova N. S., Romanko V. V.

DEVELOPMENT OF APPROACHES TO MANAGING THE COMPETITIVENESS OF A HIGHER EDUCATION INSTITUTION BASED ON GOST R ISO 9004-2019

Ogienko D.

FIGHTING CYBERCRIME

Protsenko D.M., Merkulova A.V., Kushnirenko Ye.N.

THE INFLUENCE OF ROMANTICISM, PRACTICISM, OPTIMISM, AND PESSIMISM ON MANAGEMENT DECISION-MAKING APPROACHES

Shcherbina O.A., Shabalina L.V.

METAMODERNISM IN INTERCULTURAL COMMUNICATION AND INTERNATIONAL ECONOMY: LINGUISTIC AND VISUAL ASPECTS OF AI-GENERATED CONTENT

Smirnov A.A., Kushnirenko Ye.N.

NEURO-DIFFERENT PEOPLE: A DOUBLE LIFE IN A CONFORMIST SOCIETY

Velikodnaya I.V., Bulakh I.V., Sokolova N.V.

TASKS AND METHODS OF STATE POLICY TO IMPROVE QUALITY OF SCHOOLCHILDREN LIFE

СЕКЦИЯ 2. Computer Science (computer technologies in various fields)

Координаторы:

ст.преп. Левшина Н.В.

ст.преп. Кушниренко Е.Н.

Выступающие:

Andreev R.A., Merkulova A.V., Kushnirenko Ye.N.

ALGORITHMIZATION OF THE MANAGERIAL DECISION-MAKING PROCESS USING INTELLIGENT DECISION SUPPORT SYSTEMS

Cheremushkin E.A., Merkulova A.V., Kushnirenko Ye.N.

FORECASTING AND MODELING IN THE PROCESS OF DEVELOPING AND IMPLEMENTING MANAGEMENT DECISIONS IN AN ORGANIZATION

Lavshonok A.V., Anokhin A.S., Sosnina L. V.

A REVIEW OF EXISTING METHODS FOR COMPOUND FEED GRANULATION

Babakina A.A., Sosnina L.V.

METHODS AND COMPUTATIONAL ALGORITHMS FOR SOLVING SYSTEM DYNAMICS PROBLEMS USING NEURAL NETWORKS

Baranov O.V., Sokolova N.V.

HYDRODYNAMIC MODELING OF TOWING RESISTANCE FOR LOW-TONNAGE ARCTIC AUVs

Goloborodko D.M., Cherednikova O.Y., Kushnirenko Ye.N.

METHODS FOR RENDERING COMPLEX 2D/3D GRAPHICS IN MOBILE APPLICATIONS

Golosienko A.I., Kaverina O.G.

BLOCKCHAIN TECHNOLOGY AND CRYPTOCURRENCIES: PRINCIPLES AND DEVELOPMENT PROSPECTS

Beletskaya D.O., Nikolaenko D.V., Kushnirenko Ye.N.

REVIEW AND COMPARATIVE ANALYSIS OF INTELLIGENT SYSTEM IN THE FIELD OF TRAFFIC ENGINEERING

Denisyuk F.V., Kaverina O.G.

THEORETICAL ANALYSIS OF MACHINE LEARNING METHODS FOR FORECASTING DEMAND AND OPTIMIZING FLEET ALLOCATION

Gulevich I.V., Merkulova A.V., Kushnirenko Ye.N.

APPLICATION OF THE HIERARCHY ANALYSIS METHOD IN DESIGNING THE INFORMATION INFRASTRUCTURE OF A WHOLESALE AND RETAIL TRADE ENTERPRISE

Koroteev S.S., Anokhina I. Y.

SETTING THE TASK OF DETERMINING PRODUCTIVE
OPERATING TIME OF PROBLEM-ORIENTED NETWORKS

Lukashova E.A., Merkulova A.V., Kushnirenko Ye.N.

ANALYSIS OF THE EXTERNAL ENVIRONMENT AND ITS IMPACT ON
THE DEVELOPMENT AND IMPLEMENTATION OF ALTERNATIVE
MANAGERIAL DECISIONS

Kulibaba E.A., Merkulova A.V., Kushnirenko Ye.N.

FINANCIAL RISKS OF AN IT STARTUP AT THE LAUNCH STAGE AND
METHODS FOR THEIR MINIMIZATION

Kulishov M. I., Sokolova N. V.

THE USE OF GAMING TECHNOLOGIES TO PROMOTE CULTURAL
HERITAGE AND DEVELOP URBAN TOURISM

Muratova A.A., Barteneva V.G.

DESIGNING AN INFORMATION SYSTEM FOR STUDYING ELEMENTS OF
THE FOLKLORE GENRE OF THE PEOPLES OF RUSSIA

Naidenko D.S., Dorozhko L.I., Maksimenko N.S., Kushnirenko Ye.N.

COMPARATIVE ANALYSIS OF SORTING ALGORITHMS

Pankov E.A., Grigoriev A.V., Boyko V.N.

NEURAL MULTIMODAL ASSESSMENT OF FOOD FRESHNESS FROM
IMAGES WITH EXPIRATION-DATE LABEL VALIDATION: A
METHODOLOGICAL REVIEW

Pasenko M.A., Kushnirenko Ye.N., Merkulova A.V.

COMPARATIVE ANALYSIS OF TRADITIONAL MANAGEMENT MODELS
AND AI-DRIVEN CYBERNETIC SYSTEMS IN MODERN BUSINESS
ENTITIES

Peftiev M.G., Dorozhko L.I., Maksimenko N.S., Kushnirenko Ye.N.

COMPARATIVE ANALYSIS OF ENCRYPTION MODELS IN MODERN
MESSENGERS

Pleshinger A.V., Boyko V.N.

METHODS OF IMAGE DENOISING: COMPARATIVE ANALYSIS AND PRACTICAL LIMITATIONS

Prihodko D.A., Kovalev A.A., Gubenko N.E., Sokolova N.V.

A COMPARATIVE ANALYSIS OF RECURRENT NEURAL NETWORK ARCHITECTURES FOR SHORT-TERM FORECASTING OF FINANCIAL ASSET PRICES

Pyko A.V., Boyko V.N.

ARTIFICIAL INTELLIGENCE IN INTELLIGENT VIDEO SURVEILLANCE AND EVENT ANALYSIS SYSTEMS

Riabko M.A., Vasiaeva T.A., Sosnina L.V.

RESEARCH OF COMPUTER PROCESSING METHODS FOR MEDICAL IMAGES

Sergeeva A.D., Merkulova A.V., Kushnirenko Ye.N.

DEVELOPMENT OF ALGORITHMIC OPTIMIZATION OF THE OPERATION OF A CORPORATE CHATBOT FOR ANALYSIS AND PROCESSING OF ORGANIZATIONAL INTERNAL COMMUNICATIONS

Skinder I.P., Merkulova A.V., Kushnirenko Ye.N.

HYBRID CYBERNETIC MANAGEMENT MODEL: INTEGRATION OF THE VIABLE SYSTEM MODEL AND INTELLIGENT DECISION SUPPORT SYSTEMS IN DIGITAL TRANSFORMATION

Sygin L.Ya., Svetlichnaya V.A., Sosnina L.V.

DETECTION AND MARKING OF PRICE TAGS USING PRE-TRAINED COMPUTER VISION MODELS

Zelenskiy D.M., Sosnina L.V.

METHODS OF TRAINING NEURAL NETWORKS AND EVALUATING THEIR EFFECTIVENESS

Zhirkov B.A., Zavadskaya T.V., Kushnirenko Ye.N.

AN INVESTIGATION INTO THE SQL INJECTION PROBLEM

СЕКЦИЯ 3. Computer Science (programming)

Координаторы:

ст.преп. Бойко В.Н.

ст.преп. Романько В.Н.

Выступающие:

Lesnov I.V., Boyko V.N.

TRANSFORMER-BASED AUTOMATED CODE REFACTORING WITH TEST-DRIVEN VALIDATION: EFFICIENCY AND RELIABILITY

Lesovoy N.M., Boyko V.N.

AUTOMATIC DETECTION OF ANOMALOUS EVENTS IN A VIDEO STREAM AT THE PRELIMINARY ANALYSIS STAGE

Krekov O. I., Zavadskaya T. V.

SHAKY AND STANFORD CART: MILESTONES IN AUTONOMOUS ROBOTICS HISTORY

Bubnov G.V., Kaverina O.G.

OBSERVABILITY OF DISTRIBUTED SOFTWARE SYSTEMS AS A TOOL FOR IMPROVING RELIABILITY AND REDUCING INCIDENT RESOLUTION TIME

Dulin N.V., Student Nikolaenko D.V., Kushnirenko Ye.N.

DESIGNING COGNITIVE ROUTES IN UNIVERSITY INFRASTRUCTURE

Markelov S.A., Barteneva V.G.

DEVELOPMENT OF A SURVIVAL HORROR COMPUTER GAME WITH PLAYER ACTION PREDICTION CAPABILITY

Markelov S.A., Barteneva V.G.

ARTIFICIAL INTELLIGENCE AS A TOOL FOR SHAPING PLAYER EXPERIENCE IN MODERN VIDEO GAMES

Medvedev K.S., Boyko V.N.

VIDEO GAME DEVELOPMENT: TECHNOLOGIES, TOOLS, AND CREATIVITY

Mulyavin D.E., Malcheva R.V., Sosnina L.V.

DEVELOPMENT OF AN IMAGE GENERATION SYSTEM ARCHITECTURE
USING ARTIFICIAL INTELLIGENCE ELEMENTS

Nikolaenko D.D., Zori S.A., Merenkova L.L., Boyko V.N.

ASP.NET MVC 5, BOOTSTRAP 3: LEGACY PROJECT DEVELOPMENT
AND UPGRADE PRINCIPLES

Romanova D.O., Lazebnaya L.A., Levshina N.V.

OPTIMIZATION OF RESOURCE CONSUMPTION IN NEURAL NETWORK
MODELS VIA VECTOR POLAR QUANTIZATION: THE IMPACT OF
TURBOQUANT ON THE ENVIRONMENTAL FOOTPRINT OF DATA
CENTERS

Vasilchenko O.E., Kolomoitseva I.A., Boyko V.N.

IMPLEMENTATION OF TOPIC MODELING BASED ON LATENT
DIRICHLET ALLOCATION FOR THE ANALYSIS OF RUSSIAN-LANGUAGE
NEWS STREAMS

Vavilov D. A., Nikolaenko D. V., Kushnirenko Ye.N.

RESEARCH OF A BIOMETRIC ACCESS CONTROL SYSTEM BASED ON
MULTIMODAL AUTHENTICATION

Zosimov V.V., Kaverina O. G.

PROBLEMS OF RELIABILITY AND MAINTENANCE OF ADDITIVE
MANUFACTURING EQUIPMENT

Zozulia M.A., Kaverina O.G.

THE EVOLUTION OF SOFTWARE DEVELOPMENT METHODOLOGIES

СЕКЦИЯ 4. Digitalization of education

Координаторы:

д.п.н, проф. Каверина О.Г.

асс. Менжулина А.С.

Выступающие:

Dikarev D.R., Malcheva R.V., Kushnirenko Ye.N.

DEVELOPMENT AND RESEARCH OF AN INTELLIGENT KNOWLEDGE
ASSESSMENT SYSTEM

Bogomolov M.A., Boyko V.N.

RESEARCH OF MODERN NLP AND MACHINE LEARNING METHODS IN TEXT ANALYSIS TASKS

Krasozov A.S., Boyko V.N.

RESEARCH ON INTELLIGENT ANALYSIS METHODS FOR THE DEVELOPMENT OF DIGITAL MARKETING COMMUNICATIONS IN HIGHER EDUCATION INSTITUTIONS

Maidanyuk K.D., Sosnina L.V.

A REVIEW OF METHODS FOR EVALUATING THE PERFORMANCE OF LEARNING FROM PRECEDENTS

Mazhan R.S., Boyko V.N.

INTEGRATION OF RETRIEVAL-AUGMENTED GENERATION (RAG) INTO EDUCATIONAL SYSTEMS: A CASE STUDY OF TRAINING NEURAL NETWORKS ON LOCAL DATA

Murashchenko A.R., Fedyaev O.I., Sosnina L.V.

TRACKING THE DYNAMICS OF STUDENT MOVEMENT IN THE CLASSROOM USING THE YOLO NEURAL NETWORK

Muratova A.A., Barteneva V.G.

APPLICATION OF ANALYTICAL ARTIFICIAL INTELLIGENCE MODELS IN EDUCATION

Podzol D.Y., Boyko V.N.

RESEARCH OF AUTOMATIC TEXT REFERENCING METHODS

Pravilov P.D., Cherednikova O.Yu., Kushnirenko Ye. N.

COMPARATIVE ANALYSIS OF LEARNING MANAGEMENT SYSTEMS (LMS)

Rutkovskaya E.A., Karabchevskiy V.V., Sosnina L.V.

GENERATIVE DESIGN AND PROSPECTS OF ITS INTEGRATION INTO EDUCATIONAL AND PRACTICAL ACTIVITIES

Siversky R.A., Maksimenko A.V.

LEGAL ASPECTS OF REGULATING ARTIFICIAL INTELLIGENCE IN SCIENTIFIC RESEARCH AND INNOVATION ACTIVITIES IN THE RUSSIAN FEDERATION

Yevtushenko S.N., Kaverina O.G.

THE IMPACT OF AI TECHNOLOGIES ON THE EDUCATIONAL PROCESS

Zaytseva V.A., Gubenko N.E., Sokolova N.V.

ARCHITECTURE OF A WEB-ORIENTED PLATFORM FOR INTEGRATING NAVIGATION AND SCHEDULE

СЕКЦИЯ 5. Technical sciences

Координаторы:

ст.преп. Куксина О.И.

ст.преп. Соколова Н.В.

Выступающие:

Gaidai A.A. Kuksina O.I.

METHODS OF WATER PREPARATION FOR DRINKING WATER SUPPLY

Gladilin O.A., Zavorotnev Y.D.

NONLINEAR DYNAMICS OF TOPOLOGICAL SOLITONS IN BINARY CU-A (A = CO, SN, AG) SOLID SOLUTIONS UNDER HIGH-PRESSURE TORSION

Asriev A.Y., Kuksina O.I.

FORMATION OF GEOCHEMICAL ANOMALIES WITHIN SEISMICALLY ACTIVE REGIONS AND THEIR MARGINS: IMPLICATIONS FOR OIL AND GAS EXPLORATION

Блынский Д. А., Лахин А. М., Романько В. В.

METHODS OF FINISHING AND HARDENING TREATMENT OF GEAR TEETH

Dubyaga V.V., Kuksina O.I., Rublyova L.I.

SULFONAMIDES: HISTORY AND PERSPECTIVES FOR FURTHER DEVELOPMENT

Gordei M.M., Metlov L.S.

COUPLED STRUCTURAL AND FERROELECTRIC PHASE TRANSITIONS
IN TERMS OF STRAIN ORDER PARAMETER

Iakimenko M.N., Belichko D.R., Zozulya A.A., Volkova G.K., Golovan G.N.

INVESTIGATION OF MECHANICAL AND ELECTRICAL PROPERTIES OF
ZIRCONIUM CERAMICS WITH THE ADDITION OF BOROSILICATE
GLASS

Nazaryuk V. Yu., Simonenko V.I.

DEVELOPMENT OF A PREDICTIVE MODEL FOR WEAR RESISTANCE OF
CAST IRONS WITH HIGH WEAR RESISTANCE

Nedyorkin V.V., Shemchenko E.I.

FEATURES OF THE SURFACE MORPHOLOGY OF A CN_x:Eu_yO_z FILM
OBTAINED USING A DC MAGNETRON

Nyrkov N. Yu., Shevelev A. V., Safonov R. A.

LABORATORY PULSED MAGNETOMETER FOR IN-SITU STUDIES OF
FUNCTIONAL MAGNETIC MATERIALS IN FIELDS UP TO 15 T

Porozhan D.A., Kuksina O.I.

THE INVISIBLE METRIC: BRIDGING THE GAP BETWEEN
ARCHITECTURAL VALUE AND CADASTRAL REGISTRATION

Sechina M.V., Bershadsky I.A., Gladkov A.Y.

CALCULATION-BASED ASSESSMENT OF INTRINSIC SAFETY FOR
ACTIVE-INDUCTIVE ELECTRICAL CIRCUITS IN EXPLOSION-PROOF
ELECTRICAL EQUIPMENT, INCLUDING PORTABLE DEVICES

Shpileva A.A., Sokolova N.V.

PARAMETRIC SYNTHESIS AND DIMENSIONAL OPTIMIZATION OF
LOW-TONNAGE TRANSPORT AUVs

Svezheninova A.V., Kuksina O.I.

COMPREHENSIVE LAND RECLAMATION IN RUSSIAN AGRICULTURE:
CURRENT CHALLENGES, INNOVATIVE APPROACHES, AND
SUSTAINABLE DEVELOPMENT PROSPECTS

Tohktamysh M.A., Skazhenik V.B.

SPATIAL MODELLING OF OPEN PIT MINING DEVELOPMENT OPTIONS

Vasilenko V.V., Mikhailov A.N., Romanko V.V.

SYNTHESIS OF TECHNOLOGICAL SUPPORT FOR REPAIR AND RESTORATION OF COMPRESSOR BLADES GTD MODEL K2500

Kolodiy E.A., Kuksina O.I.

AIR POLLUTION BIOINDICATORS

Kolotushkin R.R., Kuksina O.I.

INTEGRATION OF DIGITAL TWINS WITH PROCESS CONTROL SYSTEMS (APCS) AT CHEMICAL ENTERPRISES

Savitskaya M.V. Kuksina O.I.

RATIONALE FOR THE COMPOSITION OF AUTHOR'S TRANSDERMAL CREAM FOR PROBLEMATIC FACIAL SKIN

СЕКЦИЯ 6. Economic and legal sciences

Координаторы:

асс. Соколова О.В.

асс. Халаджи Ю.В.

Выступающие:

Demyankova V.I., Kurgan E.G., Boyko V.N.

ANALYSIS OF UNRESOLVED SCIENTIFIC PROBLEMS OF REGIONAL INNOVATIVE DEVELOPMENT IN THE CONTEXT OF INTEGRATION

Dyachenko I. P., Chechetkina M. A., Polonnikova O. L.

INTERNAL CONTROL OF PRODUCTION STOCKS AT THE ENTERPRISE

Ermakova Z. S., Chechetkina M. A., Polonnikova O. L.

HISTORICAL PREREQUISITES AND MODERN DEFINITIONS OF THE CONCEPT OF 'WAGES'

Fedyaev T.Yu., Shcherbina A.Yu.

THE IMPACT OF DEGLOBALIZATION: A COMPARATIVE ANALYSIS OF THE RUSSIAN FEDERATION AND THE UNITED STATES

Kovaleva A.R., Kaverina O.G.

IMPROVING THE MANAGEMENT SYSTEM OF AN ADVERTISING AGENCY BASED ON THE UTILIZATION OF THE HUMAN FACTOR

Makeeva A.O., Kuksina O.I.

STRUCTURAL RECONFIGURATION OF INTERBUDGETARY RELATIONS IN RUSSIA IN 2026: FROM THE RAW MATERIALS MODEL TO INDUSTRIAL POLARIZATION
KNOWLEDGE MANAGEMENT:

Maksakov D.V., Godyna N.F., Romanko V.V.

THE SIX SIGMA CONCEPT

Shcherbina A.Yu., Naminat A.A., Sokolova O.V.

THE “BELT AND ROAD” INITIATIVE AND THE STRUCTURAL RESTRUCTURING OF THE WORLD ECONOMY

Ponedelnik M.V., Sokolova N.V.

FEATURES OF THE FORMATION OF STATE DEMOGRAPHIC POLICY FOR RUSSIAN FEDERATION

Shulyak D.D.

THE ROLE OF ERP SYSTEMS IN THE DIGITAL TRANSFORMATION OF THE DPR ECONOMY

Thutskogina A.L., Maslova A.S., Kaverina O.G.

FROM MARKET PRICES TO DIGITAL LEDGERS: THE EVOLUTION OF ECONOMIC MECHANISMS IN THE AGE OF CRYPTOCURRENCY

Kvashuk A.V., Gerasimenko E.E.

HUMAN RIGHTS COMMISSIONER OF THE RUSSIAN FEDERATION

Azarova V.M.

SANCTIONS OF 2008–2024 AS A FACTOR IN THE TRANSFORMATION OF THE FOREIGN POLICY COURSE OF THE RUSSIAN FEDERATION

Podoksyonov M.R.

MODERN CHALLENGES OF CRIMINAL LAW IN RUSSIA

Priymak A.S., Maksimenko A. V.

LEGAL NIHILISM AS A PHENOMENON OF MODERN RUSSIAN SOCIETY

Smirnova V.K.

PRESUMPTION OF INNOCENCE: PROBLEMS OF IMPLEMENTATION IN PRACTICE

Tarasenko D.V., Maksimenko A.V.

SUBJECTIVE SIDE OF A CRIME IN MODERN CRIMINAL LAW

Tolmatcheva K.V., Maksimenko A.V.

BASIC CONSTITUTIONAL DUTIES OF THE INDIVIDUAL AND THE CITIZEN