

MUHANDISLIK & IQTISODIYOT

*ijtimoiy-iqtisodiy, innovatsion texnik,
fan va ta'limga oid ilmiy-amaliy jurnal*

2025
MAY



Milliy nashrlar

OAK: <https://oak.uz/pages/4802>

05.00.00 – Texnika fanlari

08.00.00 – Iqtisodiyot fanlar



Google
Scholar

OPEN ACCESS

ULRICHSWEB™
GLOBAL SERIALS DIRECTORY

Academic
Resource
Index
ResearchBib

ISSN
INTERNATIONAL
STANDARD
SERIAL
NUMBER
INTERNATIONAL CENTRE

CYBERLENINKA

OpenAIRE

ROAD

INDEX COPERNICUS
INTERNATIONAL

BASE

Crossref

НАУЧНАЯ ЭЛЕКТРОННАЯ
БИБЛИОТЕКА
LIBRARY.RU



РЭУ.РФ
Российский экономический университет
ИМЕНИ Г.В. ПЛЕХАНОВА
ТАШКЕНТСКИЙ ФИЛИАЛ



muhandislik & iqtisodiyot

*ijtimoiy-iqtisodiy, innovatsion texnik,
fan va ta'limga oid ilmiy-amaliy jurnal*

*Elektron nashr,
660 sahifa, may, 2025-yil.*

BOSH MUHARRIR:

Zokirova Nodira Kalandarovna, iqtisodiyot fanlari doktori, DSc, professor

BOSH MUHARRIR O'RINBOSARI:

Shakarov Zafar G'afforovich, iqtisodiyot fanlari bo'yicha falsafa doktori, PhD, dotsent

TAHRIR HAY'ATI:

Abduraxmanov Kalandar Xodjayevich, O'z FA akademigi, iqtisodiyot fanlari doktori, professor

Sharipov Kongratbay Avezimbetovich, texnika fanlari doktori, professor

Maxkamov Baxtiyor Shuxratovich, iqtisodiyot fanlari doktori, professor

Abduraxmanova Gulnora Kalandarovna, iqtisodiyot fanlari doktori, professor

Shaumarov Said Sanatovich, texnika fanlari doktori, professor

Turayev Bahodir Xatamovich, iqtisodiyot fanlari doktori, professor

Nasimov Dilmurod Abdulloyevich, iqtisodiyot fanlari doktori, professor

Allayeva Gulchexra Jalgasovna, iqtisodiyot fanlari doktori, professor

Arabov Nurali Uralovich, iqtisodiyot fanlari doktori, professor

Maxmudov Odiljon Xolmirzayevich, iqtisodiyot fanlari doktori, professor

Xamrayeva Sayyora Nasimovna, iqtisodiyot fanlari doktori, professor

Bobonazarova Jamila Xolmurodovna, iqtisodiyot fanlari doktori, professor

Irmatova Aziza Baxromovna, iqtisodiyot fanlari doktori, professor

Bo'taboyev Mahammadjon To'ychiyevich, iqtisodiyot fanlari doktori, professor

Shamshiyeva Nargizaxon Nosirxuja kizi, iqtisodiyot fanlari doktori, professor,

Xolmuxamedov Muhsinjon Murodullayevich, iqtisodiyot fanlari nomzodi, dotsent

Xodjayeva Nodiraxon Abdurashidovna, iqtisodiyot fanlari nomzodi, dotsent

Amanov Otabek Amankulovich, iqtisodiyot fanlari bo'yicha falsafa doktori (PhD), dotsent

Toxirov Jaloliddin Ochil o'g'li, texnika fanlari bo'yicha falsafa doktori (PhD)

Qurbonov Samandar Pulatovich, iqtisodiyot fanlari bo'yicha falsafa doktori (PhD)

Zikriyoyev Aziz Sadulloyevich, iqtisodiyot fanlari bo'yicha falsafa doktori (PhD)

Tabayev Azamat Zaripbayevich, iqtisodiyot fanlari bo'yicha falsafa doktori (PhD)

Sxay Lana Aleksandrovna, iqtisodiyot fanlari bo'yicha falsafa doktori (PhD), dotsent

Ismoilova Gulnora Fayzullayevna, iqtisodiyot fanlari nomzodi, dotsent

Djumaniyazov Umrbek Ilxamovich, iqtisodiyot fanlari nomzodi, dotsent

Kasimova Nargiza Sabitdjanovna, iqtisodiyot fanlari nomzodi, dotsent

Kalanova Moxigul Baxritdinovna, dotsent

Ashurzoda Luiza Muxtarovna, iqtisodiyot fanlari bo'yicha falsafa doktori (PhD)

Sharipov Sardor Begmaxmat o'g'li, iqtisodiyot fanlari bo'yicha falsafa doktori (PhD)

Sharipov Botirali Roxataliyevich, iqtisodiyot fanlari nomzodi, professor

Tursunov Ulug'bek Sativoldiyevich, iqtisodiyot fanlari doktori (DSc), dotsent

Bauyetdinov Majit Janizaqovich, Toshkent davlat iqtisodiyot universiteti dotsenti, PhD

Botirov Bozorbek Musurmon o'g'li, Texnika fanlari bo'yicha falsafa doktori (PhD)

Sultonov Shavkatjon Abdullayevich, Kimyo fanlari doktori, (DSc)

Jo'raeva Malohat Muhammadovna, filologiya fanlari doktori (DSc), professor.

muhandislik & iqtisodiyot

*ijtimoiy-iqtisodiy, innovatsion texnik,
fan va ta'limga oid ilmiy-amaliy jurnal*

05.01.00 – Axborot texnologiyalari, boshqaruv va kompyuter grafikasi
05.01.01 – Muhandislik geometriyasi va kompyuter grafikasi. Audio va video texnologiyalari
05.01.02 – Tizimli tahlil, boshqaruv va axborotni qayta ishlash
05.01.03 – Informatikaning nazariy asoslari
05.01.04 – Hisoblash mashinalari, majmualari va kompyuter tarmoqlarining matematik va dasturiy ta'minoti
05.01.05 – Axborotlarni himoyalash usullari va tizimlari. Axborot xavfsizligi
05.01.06 – Hisoblash texnikasi va boshqaruv tizimlarining elementlari va qurilmalari
05.01.07 – Matematik modellashtirish
05.01.11 – Raqamli texnologiyalar va sun'iy intellekt
05.02.00 – Mashinasozlik va mashinashunoslik
05.02.08 – Yer usti majmualari va uchish apparatlari
05.03.02 – Metrologiya va metrologiya ta'minoti
05.04.01 – Telekommunikatsiya va kompyuter tizimlari, telekommunikatsiya tarmoqlari va qurilmalari. Axborotlarni taqsimlash
05.05.03 – Yorug'lik texnikasi. Maxsus yoritish texnologiyasi
05.05.05 – Issiqlik texnikasining nazariy asoslari
05.05.06 – Qayta tiklanadigan energiya turlari asosidagi energiya qurilmalari
05.06.01 – To'qimachilik va yengil sanoat ishlab chiqarishlari materialshunosligi
05.08.03 – Temir yo'l transportini ishlatish
05.09.01 – Qurilish konstruksiyalari, bino va inshootlar
05.09.04 – Suv ta'minoti. Kanalizatsiya. Suv havzalarini muhofazalovchi qurilish tizimlari
10.00.06 – Qiyosiy adabiyotshunoslik, chog'ishtirma tilshunoslik va tarjimashunoslik
10.00.04 – Yevropa, Amerika va Avstraliya xalqlari tili va adabiyoti

08.00.01 - Iqtisodiyot nazariyasi
08.00.02 - Makroiqtisodiyot
08.00.03 - Sanoat iqtisodiyoti
08.00.04 - Qishloq xo'jaligi iqtisodiyoti
08.00.05 - Xizmat ko'rsatish tarmoqlari iqtisodiyoti
08.00.06 - Ekonometrika va statistika
08.00.07 - Moliya, pul muomalasi va kredit
08.00.08 - Buxgalteriya hisobi, iqtisodiy tahlil va audit
08.00.09 - Jahon iqtisodiyoti
08.00.10 - Demografiya. Mehnat iqtisodiyoti
08.00.11 - Marketing
08.00.12 - Mintaqaviy iqtisodiyot
08.00.13 - Menejment
08.00.14 - Iqtisodiyotda axborot tizimlari va texnologiyalari
08.00.15 - Tadbirkorlik va kichik biznes iqtisodiyoti
08.00.16 - Raqamli iqtisodiyot va xalqaro raqamli integratsiya
08.00.17 - Turizm va mehmonxona faoliyati

Ma'lumot uchun, OAK

Rayosatining 2024-yil 28-avgustdagi 360/5-son qarori bilan
“Dissertatsiyalar asosiy ilmiy natijalarini chop etishga tavsiya etilgan
milliy ilmiy nashrlar ro'yxati”ga texnika va iqtisodiyot fanlari bo'yicha
“Muhandislik va iqtisodiyot” jurnali ro'yxatga kiritilgan.

M u a s s i s: “Tadbirkor va ishbiarmon” MChJ

H a m k o r l a r i m i z:

1. Toshkent shahridagi G.V.Plexanov nomidagi Rossiya iqtisodiyot universiteti
2. Toshkent davlat iqtisodiyot universiteti
3. Toshkent irrigatsiya va qishloq xo'jaligini mexanizatsiyalash muhandislari instituti” milliy tadqiqot universiteti
4. Islom Karimov nomidagi Toshkent davlat texnika universiteti
5. Muhammad al-Xorazmiy nomidagi Toshkent axborot texnologiyalari universiteti
6. Toshkent davlat transport universiteti
7. Toshkent arxitektura-qurilish universiteti
8. Toshkent kimyo-texnologiya universiteti
9. Jizzax politexnika instituti



MUNDARIJA

Mahalliy budgetlar daromadlarini oshirish imkonoyatlari	12
Soatova Nodira Boboxanovna	
Bank aksiyalarining bozor bahosini shakllantiruvchi omillar va baholash metodologiyasi	18
Raxmatov Azizjon Jaloliddinovich, Jumayev Muzaffar Mahmud o'g'li	
Namangan viloyatida kichik biznes subyektlarini yanada rivojlantirish va ular samaradorligini oshirish.....	23
Jalolova Muazzamxon Akbarjonovna	
Kichik biznesni tijorat banklari tomonidan moliyalashtirishning o'ziga xos jihatlari	31
Nematulloyev Suxrob Sobirovich	
Qayta tiklanadigan vodorod narxлари strategiyasini o'rganish: xarajat noaniqliklarini bartaraf etish	35
Nuraliyeva Komila Sanakulovna	
Prospects for improving the efficiency of deposit operations in commercial banks	42
Olimov Abror Axadjon o'g'li	
Bank tizimida moliyaviy innovatsiyalar va raqamli texnologiyalar mohiyati va ahamiyati.....	51
Xodjimamedov Akmal Ashurovich, Umedov Abdullo Umedovich	
Elektron tijoratnini rivojlantirishni boshqarish samaradorligini baholash natijalari tahlili.....	57
Madieva Zuxra Iskandarbekovna	
Kichik biznes va xususiy tadbirkorlik sohasida xotin-qizlar barqaror ish bilan bandligini oshirishning ilmiy-nazariy asoslari.....	63
Xoliyorova Shoxista Qahramon qizi	
Qurilish materiallari sanoati korxonalarida raqamli texnologiyalarni joriy etishning tashkiliy-iqtisodiy mexanizmlari.....	70
Qodirov Sardorbek Isroiljon o'g'li	
The role of sports marketing in training leadership personnel in the sports management system.....	75
B.Y.Hamraev	
Sanoat korxonalarida quyosh energiyasidan foydalanish orqali iqtisodiy samaradorlikni oshirish yo'llari	79
Qalandarova Gulshoda Nazirjon qizi	
Ishlab chiqarish infratuzilmasini rivojlantirishni davlat tomonidan tartibga solish konsepsiyasi	85
Normurodov Xusan Eshmaxmatovich	
Роль центрального банка в контроле инфляции: политика инфляционного таргетирования	95
Камилова Наргиза Абдукахоровна, Пиримкулов Фирдавс Шухратович	
Ko'pkari ot sporti o'yini chavandozlari sport kiyimini ishlab chiqish uchun tavsiya etilayotgan matolarning xususiyatlari tahlili	102
Musayeva Lobar Sayfullayevna, Po'latova Saboxat Usmanovna	
Оценка технико-экономических показателей автономной фотоэлектрической установки с устройством очистки от снега.....	107
Юлдошев Исроил Абриевич, Рустамова Шахноза Шухрат кизи, Ботиров Бозорбек Мусурмон угли, Жураев Обид Шавкатович, Атоева Мохинур Амриллаевна	



Some considerations about the specific features of advertising texts.....	116
Mustaqimova Kunduz Sobirovna	
Raqamli iqtisodiyot sharoitida bank xizmatlari amaliyoti tahlili.....	121
Tangriev Izzat Raxmatullaevich	
Fransuzcha va o'zbekcha terminlar vektori asosidagi semantik o'xshashlik.....	125
Jo'rayeva Malohat Muhammadovna, Abduaxadova Zilola Jamoliddinovna	
Sayyohlik tilining raqamli tadqiqi: fransuz va o'zbek terminlarining multimodal vektor va vizual xaritalanishi.....	131
Abduaxadova Zilola Djamoliddinovna	
Обеспечение финансовой устойчивости предприятий: проблемы и решения	136
Аллаберганов Зокир Гойибович	
Qurilish korxonalarini boshqarishning tashkiliy mexanizmlarini shakllantirishdagi muammolar	142
Alijonov Jamshid Alijon o'g'li	
Innovatsion startaplarni moliyalashtirishda venchur kapitali	149
Bozorova Ozoda Raximovna	
Pul-kredit siyosati orqali iqtisodiyotni tartibga solish	154
Berdiyev Akram O'ktamovich	
Yashil buxgalteriya hisobi va ekologik masalalarga oid xalqaro talablar va yondashuvlar	163
Eshquvvatova Muxlisa Avaz qizi	
Sug'urta tashkilotlari moliyaviy hisobotlari auditida muhimlik va risk darajasini aniqlash uslubiyotini takomillashtirish	169
Abduraimova Maftunaxon Axmatovna	
Chizmageometriya fanida gamifikatsiya va didaktik o'yinlarning samaradorligi.....	174
Yo'ldashev Solmonjon Iqboljon o'g'li	
Tijorat banklarining nodepozit moliyaviy resurslarini optimallashtirish	179
Tangirkulov Bekzod Boxadirovich	
Теоретические аспекты, причины и специфика безработицы (на примере Республики Узбекистан)	186
С.Э. Холмуратов	
Xalqaro oziq-ovqat bozoridagi raqobat sharoitida meva-sabzavotchilik tarmog'ini rivojlantirishga oid xorij tajribalari	191
Mengnorov Almardon Abdirahmonovich	
O'zbekistonning butunjahon savdo tashkilotiga a'zo bo'lish jarayonlari va uning soliq tizimiga ta'siri	202
Qurbonov Muxiddin Abdullaevich	
Qoraqalpog'istonda mehmonxona xo'jaligining hozirgi holati tahlili	207
Xalimova Fayoz Nafasovna	
Raqamli texnologiyalar va sun'iy intellektning bugungi kundagi ahamiyati.....	212
Norboyeva Mahliyo Rustamovna, Komiljon Baxromov Muzaffar o'g'li	
Method of drying melon using solar radiation and a household solar-infrared dryer.....	216
Khakimova Sabina Shamsiddin qizi, Qodirov Jobir Ro'zimatovich, Mirzayev Shavkat Mustaqimovich, Yangiboyev Fayoz G'aybulla o'g'li	
Qishloq xo'jaligi tarmog'ini moliyalashtirish istiqbollari	227
Ishniyazov Baxrom Normamatovich	
Влияние розничного кредитования на потребительский спрос	231
Базарова Нигора Равшановна	



Влияние розничного кредитования на потребительский спрос	231
Базарова Нигора Равшановна	
Прямые иностранные инвестиции как основной фактор повышения конкурентоспособности экономики стран	238
Наврузов Икрам Абдуллаевич	
Qishloq xo'jaligini moliyalashtirish tizimini takomillashtirish	243
Ishniyazov Baxrom Normamatovich	
Tayyor mahsulotlar hisobi bo'yicha xorij tajribasi va ulardan respublikamizda foydalanish imkoniyatlari.....	248
Xotamov Alisher Xotamjon o'g'li, Sayfullayev Mexroj Sayfullayevich	
Sanoat korxonalarida asosiy vositalar qadrsizlanishi va eskirishini hisobga olishni optimallashtirish.....	255
Kurbonova Shaxrinov Avazxonovna	
Korxonalarda ishlab chiqarish xarajatlarini auditorlik tekshiruvidan o'tkazish	262
Tulovov Erkinjon To'liqin o'g'li, Shanasirova Nodira Abdullayevna	
Digital transformation in public sector: advantages and challenges of the integration.....	266
Abdurakhmanova Sevinch	
Стратегическое планирование и предсказание результатов деятельности организации.....	271
Алимов Бехзоджон Наврузжонович	
Влияние привлечения инвестиций в национальную экономику на повышение конкурентоспособности предприятий.....	277
Каримова Дилафруз Садирдин кизи	
Nomoddiy aktivlar auditida sun'iy intellektdan foydalanish imkoniyatlari	283
Rozmatova Umida Yuldashevna	
To'g'ridan-to'g'ri sug'urtalash operatsiyalari bo'yicha sug'urta zaxiralarini shakllantirishni xalqaro standartlar asosida tashkil etish.....	290
X.A.Raximov	
"Sog'liqni saqlash sohasida davlat-xususiy sheriklik loyihalarini moliyalashtirishning innovation mexanizmlari va normativ asoslari"	294
Karabaev Sanjar Abdusamatovich	
Tibbiyot muassasalarida iqtisodiy barqarorlikning dinamik tahlili	302
Elmurodov G'ayratjon Abdumurodovich	
Korxona faoliyatini optimallashtirishdagi iqtisodiy tahlilning roli va ahamiyati.....	308
Sattorov Mirjahon	
Роль контекстного маркетинга в условиях ограниченной аудитории и дефицита ресурсов.....	313
Дебердиев Анвар	
O'zbekistonda korxonalarning iqtisodiy barqarorligini raqamli texnologiyalar yordamida oshirish	319
Iminova Nargizaxon Akramovna, Mo'ydinov Ma'murjon Mansurjon o'g'li	
Jahon amaliyotida eksport moliyalashtirishi: uning shakllari, afzalliklari va kamchiliklari	328
Xudoynazarov Sherzod Ismoilovich	
Ramli transformatsiya va korxonaning barqarorligi	333
Soibov Nozimbek Faxridin o'g'li	
Raqamli texnologiyalar yordamida kitobxonlik madaniyatini rivojlantirish.....	342
Ernaqulov Sunnatillo Nurali o'g'li	



Роль цифровой эпохи в банковской сфере	346
Максудова Шахзода	
Yashil iqtisodiyotda innovatsiyalar va ekologik barqarorlik.....	350
Sultonov Omon Juma o'g'li	
Iqtisodiy modernizatsiya va uning davlat rivojlanishiga ta'siri	355
Zuvaydullaev Nematullo Oybek o'g'li	
Международный опыт: применение корпоративного менеджмента в государственном управлении развитых стран	360
Махмудова Севара Улугбековна	
Carbon markets and agribusiness: assessing the role of emissions trading in promoting sustainable agricultural practices.....	366
Mubina Toirova	
Standartlashtirishda nanotexnologiyalarning o'rni va ahamiyati	371
Ahmedova Sitara Asqar qizi	
Sut mahsulotlarini saqlash jarayonini boshqarish tizimining barqarorlik masalasi.....	376
Sabirov Ulugbek Kuchkarovich, Oqilov Azizbek Kozimjon o'g'li	
Kredit risklarini boshqarishda zamonaviy texnologiyalarning o'rni.....	392
Hamroyev Sherzod Axtamovich	
Alyuminiy ion energiya saqlaydigan qurilmalarning afzalliklari	399
Bafojev Abduhamid Hoshim o'g'li	
Buxgalteriya axborotining investisiya qarorlarga ta'siri.....	403
Rahmatova Shahnoza Shukurovna	
Комплексный подход к оценке и обеспечению финансовой безопасности текстильных предприятий.....	408
Турсунов Бобир Ортикмирзаевич	
Markaziy osiyo mamlakatlarida nodavlat notijorat tashkilotlarini moliyalashtirish: O'zbekiston tajribasi bilan solishtirma tahlil	416
Aliyev Arslon Salom o'g'li	
Temir yo'l transportini rivojlantirishda xorijiy olimlarning ilmiy yondashuvlari	422
Nasrullayev Nurbek Baxtiyarovich	
IoT (Internet of Things) texnologiyalari va ularning ishlab chiqarish jarayonlarida qo'llanilishi	428
Karabayev Ibragim Turdiyevich, Mamatqulov Toyir Chorshanbiyevich, Yqubov Bobur Mamasobir o'g'li	
Improvement of preparation of accounting policies in joint-stock companies	433
Ovlayev Suhrob Temur o'g'li, Yo'ldiyev Oybek Ulug'bek o'g'li, Normo'minova Dilorom Umar qizi, Avlayeva Oybarchin Olim qizi	
Korxonalar raqobatbardoshligini oshirishda innovatsion marketing strategiyalaridan foydalanish.....	437
Samadov Askarjon Nishonovich	
Bir qatlamli elastik asosda joylashgan to'sinning seysmik kuchlar ta'siridagi tebranishining v.z. vlasov usuli asosida analitik tadqiqi	444
Kamola Xaydarova	
Applications of hyperbolic geometry in physics and biology	449
Khaknazarova Khurshidabonu Kenjaevna, Otakulova Rukhshona Akram kizi	
Korxonalarni qayta tashkil etishda moliyaviy hisobot tuzish bo'yicha xalqaro tajriba, uni o'zbekistonda qo'llash imkoniyatlari.....	456
Davletov Ikram Raximberganovich	



Qoraqalpog'iston respublikasida turizm rivojini ta'minlovchi iqtisodiy va tashkiliy choralarni mukammallashtirish	462
Tleumuratov Baxadir Genjemuratovich	
Milliy iqtisodiyotda fond bozorini rivojlantirish istiqbollari	468
Sultonov Sherali Nuraliyevich	
Дифракция и отражение упругих поперечных волн в изотропной среде с жёсткой границей	476
Салиев А.А., Кеунимжаев М.К.	
Tijorat banklarida investitsiya loyihalari samaradorligi va amaliy holati tahlili	481
Axmedov Shoymurod Azamat o'g'li	
Aralash tolalardan tayyorlangan iplarning mustahkamlik xususiyatlarini o'rganish va tahlil qilish	486
Nurboev Rashit Xudoyberdievich, Salimov Shuhrat Halimovich, Bozorov Rustam Rasulovich	
Namangan viloyatining turizm salohiyatini rivojlantirish istiqbollari: Hududiy raqobatbardoshlik va innovatsion yondashuvlar	491
Khusniddin Egamnazarov	
Klasterlar hisob siyosatida boshqaruv hisobining metodologik asoslari.....	498
Toshpo'latov Azizbek Shermuxamadovich	
Jismoniy shaxslar soliq ma'muriyatchiligining nazariy masalalari.....	505
Isroilov Boxodir Ibragimovich, Ibragimov Boburshox Boxodir o'g'li, Navruzova Farog'at Abdihamid qizi	
Digital Transformation in Public Sector: Advantages and Challenges of the Integration.....	511
Abdurakhmanova Sevinch	
Важность проекта “Умный город” в Узбекистане.....	517
Акбаржон Иминов	
Iqtisodiy tizimda risk va uning xususiyatlari.....	522
Nasimov Ravshanjon Azimovich	
Innovatsion faoliyatning moliyaviy rag'batlantirish va boshqaruv samaradorligini belgilovchi omil va jihatlar.....	530
Baxriddinov Nodirbek Zamirdinovich	
Влияние цифровизации на сокращение теневой экономики: возможности и ограничения	536
Срожиддинова З.Х., Шарифзода Мубина Дилмуроджон кизи	
Строительство здания с ограждающей конструкцией из энергоэффективных мелкоштучных трехслойных блоков.....	540
Акрамов Х.А., Тохиров Ж.О.	
Проблемы и пути внедрения механизма налогового стимулирования центров инновационного роста нового Узбекистана.....	546
Умаров Б.С.	
Современные тенденции и перспективы повышения износостойкости футеровок в горно-размольных установках	556
Акмал Жуманазаров, Илхом Эгамбердиев, Элбек Очилов, Маъруф Саибов	
Aktsiyadorlik jamiyatlarida korporativ boshqaruvga raqamli texnologiyalarni joriy qilishning ilmiy-nazariy asoslariga qarashlar	562
Suyunov Dilmurod Xolmurodovich, Habibullaeva Shirinxon Tohir qizi	
Kredit risklarini boshqarishda zamonaviy texnologiyalarning o'rni.....	570
Hamroyev Sherzod Axtamovich	



Iqtisodiy islohotlar jarayonida tovar va xizmatlar importining narxlar shakllanishiga ta'siri	577
Bababekova Gulchexra Baxtiyorovna	
Теоретические вопросы инвестиционного обеспечения центров инновационного роста региона	584
Умаров Б.С	
Tijorat banklarida investitsiya loyihalari samaradorligi va amaliy holati tahlili	591
Axmedov Shoymurod	
Lazer nurlari ta'sirida wet-blue charm yarim mahsuloti xususiyatlarining o'zgarishi	596
, Qodirov T.J, Azimov J.Sh, Yusupova D.N	
Ta'lim, ekologiya va raqamlashtirish sohalarida bolalar va o'smirlar turizmini integratsiyalash: xalqaro tajribalar va O'zbekiston	601
Islomova Dilrabo Salomovna	
Avariya rejimlarida kichik yuklamali elektr ta'minoti tizimlarining kabel izolyatsiyasi monitoringini avtomatlashtirishning zamonaviy yondashuvlari	606
Mirzoyev Narzulla Nuriddinovich, Mamatqulov Toyir Chorshanbiyevich	
Eksport faoliyatini rivojlantirish: global tajribalar va milliy imkoniyatlar	609
D.E.Qarshiev	
Iot (internet of things) texnologiyalari va ularning ishlab chiqarish jarayonlarida qo'llanilishi	614
Mamatqulov Toyir Chorshanbiyevich, Yoqubov Bobur Mamasobir o'g'li	
Sa'noat korxonalari va mexatron robotlarni optimal avtomatlashtirish va boshqarishda sun'iy intellektning ahamiyati	621
Karabayev Ibragim Turdiyevich, Esonov Husniddin Mamarasul O'g'li, Mamatqulov Toir Chorshanbiyevich	
Комплексный подход к оценке и обеспечению финансовой безопасности текстильных предприятий	625
Турсунов Бобир Ортикмирзаевич	
Method of Drying Melon Using Solar Radiation and a Household Solar-Infrared Dryer	633
Khakimova Sabina Shamsiddin qizi, Qodirov Jobir Ro'zimamatovich, Mirzayev Shavkat Mustaqimovich, Yangiboyev Fayoz G'aybullat o'g'li	
Kabel izolyatsiyasi holatini monitoring va avtomatlashtirilgan nazorat tizimlari muammolari	633
Mirzoyev Narzulla Nuriddinovich, Mamatqulov Toyir Chorshanbiyevich	
Controlling Execution Mechanisms in Intelligent Systems Using Neural Networks	649
Azizbek Yusupbekov Nodirbekovich, Husniddin Esonov Mamarasul o'g'li	
Algorithm for Optimizing Repetitive Tasks in Production Process Execution Mechanisms	654
Azizbek Yusupbekov Nodirbekovich , Husniddin Esonov Mamarasul o'g'lu	

ALGORITHM FOR OPTIMIZING REPETITIVE TASKS IN PRODUCTION PROCESS EXECUTION MECHANISMS

Azizbek Yusupbekov Nodirbekovich

Doctor of Technical Sciences, Professor
Tashkent State Technical University

Husniddin Esonov Mamarasul o'g'lu Assistant

Termez State University of Engineering and Agrotechnologies

Abstract: In conclusion, auto mouse clickers are considered valuable tools in today's rapidly evolving digital landscape. By responsibly leveraging the power of automation, users can utilize auto mouse clickers as digital assistants, allowing them to focus on more critical tasks. When used appropriately, these tools unlock their full potential to enhance efficiency and increase overall productivity.

Keywords: auto mouse clicker, automation, efficiency, productivity, repetitive tasks, software tool, mouse clicks, accuracy, consistency, multitasking.

Annotatsiya: Xulosa qilib aytganda, sichqonchani avtomatik bosish vositalari bugungi tez sur'atlar bilan rivojlanayotgan raqamli dunyoda muhim raqamli vosita sifatida qadrlanadi. Avtomatlashtirish imkoniyatlaridan oqilona foydalanish orqali bu vositani raqamli yordamchi sifatida qo'llab, foydalanuvchi o'z diqqatini muhimroq vazifalarga qaratishi mumkin. Mas'uliyatli foydalanish asosida avtomatik sichqoncha bosish vositalarining to'liq salohiyatidan foydalanish mumkin bo'lib, bu esa samaradorlik va natijadorlikni oshirishga xizmat qiladi.

Kalit so'zlar: avtomatik sichqoncha bosish, avtomatlashtirish, samaradorlik, mahsuldorlik, takrorlanuvchi vazifalar, dasturiy vosita, sichqoncha bosish, aniqlik, izchillik, ko'p vazifalilik.

Аннотация: В заключение следует отметить, что автоматические кликеры мыши представляют собой ценные инструменты в условиях стремительно развивающегося цифрового мира. Рациональное использование возможностей автоматизации позволяет применять эти кликеры в качестве цифровых помощников, освобождая пользователя для выполнения более приоритетных задач. Ответственный подход к применению данных инструментов обеспечивает полное раскрытие их потенциала, повышая эффективность и производительность деятельности.

Ключевые слова: автоматический кликер мыши, автоматизация, эффективность, производительность, повторяющиеся задачи, программное обеспечение, щелчки мыши, точность, последовательность, многозадачность

INTRODUCTION

In today's fast-paced digital world – where time-sensitive demands are ever-increasing – streamlining tasks and enhancing productivity has become essential. Whether you are a gamer aiming to optimize your gameplay, a software developer seeking to automate testing procedures, or a professional looking to simplify repetitive operations, an auto-mouse-clicker can serve as a transformative tool.

An auto-mouse-clicker is a software tool designed to automate mouse clicks and movements, allowing users to record and replay actions with high precision and operational efficiency. By eliminating the need for manual input, this technology saves both time and effort, enabling users to concentrate on more critical aspects of their work or leisure activities.

The use cases for auto-mouse-clickers are broad and span across various domains. Gamers utilize them to automate repetitive in-game actions, such as resource farming or executing monotonous tasks. Software developers benefit from auto-mouse-clickers by automating testing workflows, simulating user interactions, and ensuring software accuracy and consistency. In professional set-



tings, auto-mouse-clickers can assist with data entry, form filling, web scraping, and other repetitive digital operations – significantly improving productivity and minimizing the risk of human error.

LITERATURE REVIEW ON THE TOPIC

In our country, academician N. R. Yusupbekov, academician Kh. Z. Igamberdiev, professor A. N. Yusupbekov, professor Sh. M. Gulyamov, professor Yu. Sh. Avazov, and associate professor F. O. Kasimov conducted scientific research and studies on the improvement of executive elements, control systems, intellectual systems, and mathematical modules of executive elements.

In this article, we will delve into the concept of auto-mouse-clickers, exploring their applications, benefits, and how they can revolutionize your workflow. Whether you're a seasoned user or new to the world of automation, this article will provide valuable insights into the power of auto-mouse-clickers and how they can unlock new levels of efficiency and effectiveness in your daily tasks. An auto-mouse-clicker is a software tool designed to automate mouse clicks and movements. It allows users to record a series of mouse actions and replay them at a later time, eliminating the need for manual input. This automation can be incredibly useful for tasks that involve repetitive clicking or complex sequences of actions.



Figure 1: Design stages in the computer network

RESEARCH METHODOLOGY

In this study, data were collected through theoretical analysis and practical observation of repetitive task execution in production processes. Existing automation methods were examined, followed by experiments and real-time monitoring. The collected data were analyzed using statistical techniques to evaluate the efficiency of optimization algorithms and identify improvements in task execution mechanisms.

ANALYSIS AND RESULTS

The functionality of an auto-mouse-clicker typically involves two main components: recording and playback. During the recording phase, the software captures the user's mouse movements, clicks, and other actions, creating a script or macro that represents the sequence of events. This script can then be saved and executed later during the playback phase. Auto-mouse-clickers offer a range of customization options to tailor the automation to specific requirements. Users can adjust

parameters such as the interval between clicks, the duration of each click, and the precise coordinates on the screen where the clicks should occur. This flexibility allows for fine-tuning the automation to match the desired outcome.

The applications of auto-mouse-clickers are diverse and cater to various industries and user needs. Gamers, for instance, can utilize auto-mouse-clickers to automate repetitive tasks in games, such as grinding for resources, leveling up characters, or performing specific actions. This automation can save significant time and effort, allowing gamers to focus on more enjoyable aspects of gameplay.

In the realm of software development, auto-mouse-clickers can be invaluable for automating testing processes. By simulating user interactions, developers can ensure that their software functions correctly under various scenarios. This automation not only saves time but also improves the accuracy and consistency of testing procedures.

Auto-mouse-clickers also find applications in the business world. They can be used for data-entry tasks, where repetitive clicking and form filling are required. Additionally, auto-mouse-clickers can assist in web scraping, extracting data from websites automatically. These tools can significantly enhance productivity by reducing manual effort and minimizing the risk of errors.

In conclusion, an auto-mouse-clicker is a powerful software tool that automates mouse clicks and movements. It offers customization options, making it adaptable to various tasks and industries. Whether you're a gamer, a software developer, or a professional seeking to streamline repetitive tasks, an auto-mouse-clicker can be a valuable asset – saving time, improving accuracy, and boosting productivity.

Auto-mouse-clickers find applications in various fields. Gamers can use them to automate repetitive actions in games, such as farming resources or leveling up characters. Software developers can automate testing processes by simulating user interactions. In the business world, auto-mouse-clickers can be used for data entry, form filling, and web scraping. They can also assist individuals with disabilities by reducing the need for manual mouse movements.

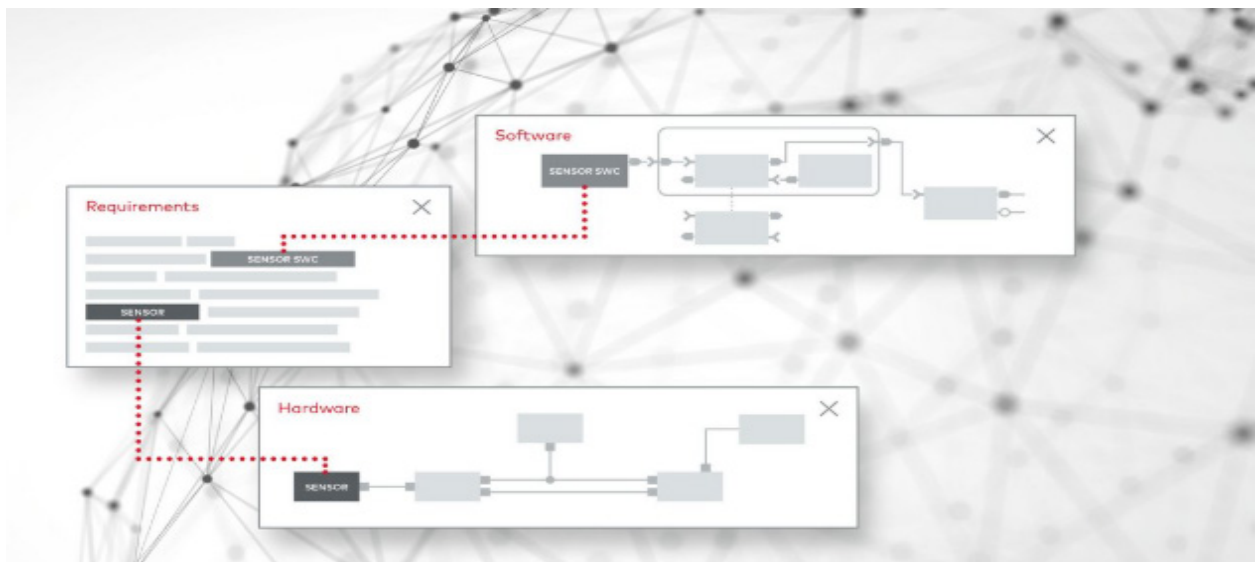


Figure 2: Knowledge base analysis through neural networks

Increased Efficiency: One of the primary benefits of using an auto-mouse-clicker is the significant increase in efficiency. By automating repetitive tasks that involve mouse clicks, users can save a substantial amount of time and effort. Instead of manually performing the same actions repeatedly, the auto-mouse-clicker can execute them with precision and speed, allowing users to focus on more important aspects of their work or leisure activities. This increased efficiency can lead to higher productivity and improved overall performance.



Accuracy and Consistency: Manual mouse clicks can be prone to errors, especially during long and repetitive tasks. With an auto-mouse-clicker, precise and consistent actions can be ensured every time. The software executes the recorded mouse clicks exactly as they were recorded, eliminating the risk of human error. This accuracy and consistency are particularly beneficial in tasks requiring a high level of precision, such as data entry or software testing. By reducing the chances of mistakes, an auto-mouse-clicker helps maintain the quality and integrity of the work.

Multitasking and Simultaneous Actions: Auto-mouse-clickers enable users to perform multiple actions simultaneously. Users can automate clicks on different parts of the screen or execute complex sequences of actions with just a few commands. This capability allows for efficient multitasking – automating various tasks while simultaneously interacting with other applications. For example, users can automate clicks on specific buttons while typing or working in other software. This feature significantly enhances productivity by saving time and enabling users to accomplish more in less time.

Customization and Flexibility: Most auto-mouse-clickers offer customization options, allowing users to adjust the speed, interval, and duration of clicks. This flexibility ensures that the automation aligns with specific requirements. Settings can be fine-tuned to simulate human-like behavior or to accommodate the response time of certain applications. Customization options allow adaptation to a wide range of applications and tasks, making auto-mouse-clickers versatile tools across industries.

Repetitive Strain Injury Prevention: Continuous manual mouse clicking can lead to repetitive strain injuries (RSIs), such as carpal tunnel syndrome. By using an auto-mouse-clicker, strain on the hand and wrist is reduced, minimizing the risk of such injuries. Automating repetitive clicking tasks promotes better ergonomics and contributes to a healthier, more comfortable work environment – supporting long-term well-being.

Time-Saving and Productivity Boost: Automating repetitive tasks with an auto-mouse-clicker saves a significant amount of time. Whether it's filling out forms, clicking through menus, or performing monotonous actions, automation completes these processes in a fraction of the time required manually. This time-saving advantage enables users to allocate their time and energy to more meaningful and complex tasks – ultimately increasing productivity and efficiency.

User-Friendly Interface: Auto-mouse-clickers typically come with user-friendly interfaces that are intuitive and easy to navigate. These tools often provide clear features and straightforward options, making them accessible to users of all skill levels. This usability ensures quick setup and operation without requiring extensive technical expertise.

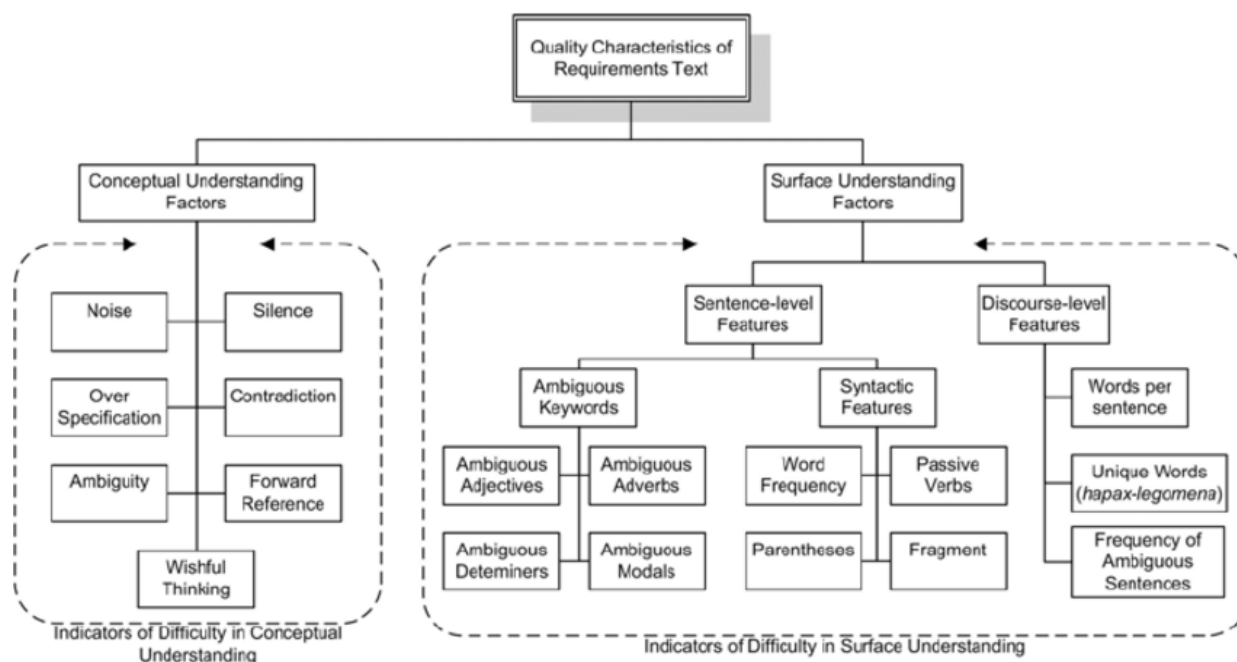


Figure 3: Text-to-speech conversion scheme using neural networks.

In a world where efficiency and productivity are paramount, auto-mouse-clickers have emerged as powerful tools for automating repetitive tasks and streamlining workflows. By eliminating manual input, these tools save valuable time and effort – allowing users to focus on more meaningful aspects of work or personal activity. Throughout this article, we have explored the concept, applications, benefits, and best practices associated with auto-mouse-clickers.

Auto-mouse-clickers offer substantial benefits – including enhanced efficiency, improved precision and consistency, multitasking functionality, customizable settings, and the prevention of physical strain. These advantages make them highly useful for gamers, developers, professionals, and any users seeking to optimize their workflow.

However, these tools must be employed ethically. Adhering to terms of service, ensuring legitimate use, complying with regulations, maintaining transparency, safeguarding data, and monitoring performance are all essential practices for responsible use. Embracing automation through tools like auto-mouse-clickers can transform your workflow and unlock new levels of efficiency and effectiveness.

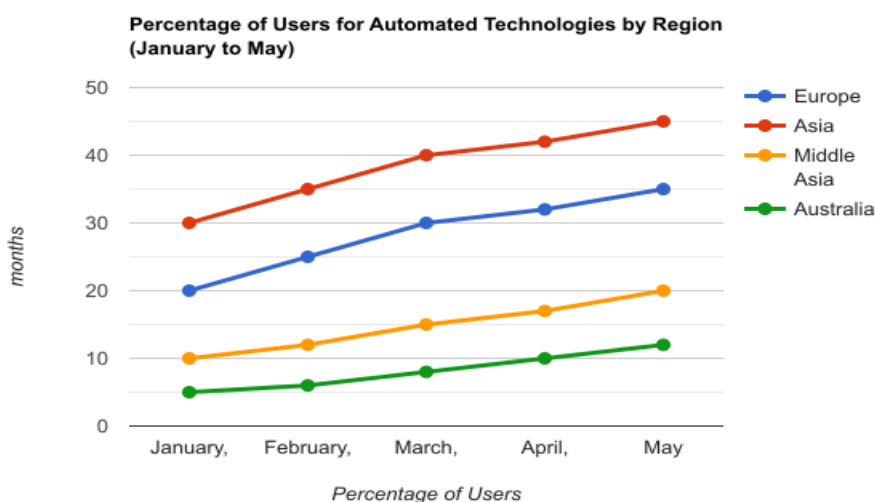


Figure 4: Analysis of tools that seek to optimize work processes

CONCLUSION AND SUGGESTIONS

Remember to use them responsibly – maintaining integrity and ethical standards in your usage. In the contemporary era, automation technology stands as a cornerstone of innovation and efficiency across the globe. Its widespread adoption transcends geographical boundaries, influencing various sectors and reshaping the way organizations and individuals approach work, creativity, and problem-solving.

This article explores the multifaceted applications of automation technology worldwide and its profound impact on industries, economies, and daily life.

List of Used Literature

1. On the Strategy of Actions for the Further Development of the Republic of Uzbekistan. – T.: February 7, 2017, Decree No. PF-4947.
2. Yusupbekov N. R., Mukhiddinov D. P. Fundamentals of Modeling and Optimization of Technological Processes. – T.: Science and Technology, 2018. – 440 p.
3. Yusupbekov N. R., Mukhamedov B. I. Control and Automation of Technological Processes: Textbook. – T.: 2017. – 576 p.
4. Yusupbekov A. N., Esonov H. M. Practical Importance of Automation and Control Systems Sciences. – T.: Article. International Conference “Prospects of Geology, Mining and Metallurgy and Oil and Gas Sectors in the South of the Republic”.
5. Esonov H. M. Improving the Efficiency of Executive Mechanisms of Intellectual Control Systems: Monograph. – T.: Termiz Publishing Center, 2024. – 160 p.

muhandislik & iqtisodiyot

*ijtimoiy-iqtisodiy, innovatsion texnik,
fan va ta'limga oid ilmiy-amaliy jurnal*

Ingliz tili muharriri: Feruz Hakimov

Musahhih: Zokir Alibekov

Sahifalovchi va dizayner: Oloviddin Sobir o'g'li

2025. May. № 5

© Materiallar ko'chirib bosilganda "Muhandislik va iqtisodiyot" jurnali manba sifatida ko'rsatilishi shart. Jurnalda bosilgan material va reklamalardagi dalillarning aniqligiga mualliflar ma'sul. Tahririyat fikri har vaqt ham mualliflar fikriga mos kelamasligi mumkin. Tahririyatga yuborilgan materiallar qaytarilmaydi.

"Muhandislik va iqtisodiyot" jurnali 26.06.2023-yildan
O'zbekiston Respublikasi Prezidenti Adminstratsiyasi huzuridagi
Axborot va ommaviy kommunikatsiyalar agentligi tomonidan
№S-5669245 reyestr raqami tartibi bo'yicha ro'yxatdan o'tkazilgan.
Litsenziya raqami: №095310.

**Manzilimiz: Toshkent shahri Yunusobod
tumani 15-mavze 19-uy**





+998 93 718 40 07



<https://muhandislik-iqtisodiyot.uz/index.php/journal>



t.me/yait_2100