

MUHANDISLIK

& IQTISODIYOT

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

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- 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 modellash
- 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
- 05.08.06 – "G'ildirakli va gusenisali mashinalar va ularni ishlatish" (texnika fanlari)
- 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
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MUNDARIJA

EPOKSID-DIAN VA FENOLFORMALDEGID GIBRID BOG'LOVCHISI ASOSIDA YUQORI YEYILISH VA KORROZIYABARDOSH ANTIFRIKSION QOPLAMALAR YARATISH	10
Bakirov Lutfillo Yuldoshaliyevich	
O'ZBEKISTONDA TURIZM SOHASIDA DAVLAT-XUSUSIY SHERIKLIKNI BOSHQARISH VA TARTIBGA SOLISHNING USTUVOR YO'NALISHLARI.....	16
Mamayusupova Dilovarxon, Maxmudaliyeva Manzuraxon, Toyirjonov Shokirjon	
FRANSUZ, RUS VA O'ZBEK TILLARI SPORT TURIZMI TERMINLARINING LEKSIK-SEMANTIK VA LINGVOMADANIY TADQIQI.....	20
Ma'rupova Gulnoz	
МЕТОДИЧЕСКИЕ ПОДХОДЫ К ОЦЕНКЕ ЭНЕРГЕТИЧЕСКОЙ ЭФФЕКТИВНОСТИ СОВРЕМЕННЫХ ТЕХНОЛОГИЙ ХРАНЕНИЯ ПЛОДОВ В РЕСПУБЛИКЕ УЗБЕКИСТАН.....	24
Муратов Абдулазиз Уктамович	
DIGITAL TRANSFORMATION AND EMERGING TRENDS IN INFORMATION TECHNOLOGY.....	29
Daminova Barno, Esmurodova Zarnigor, Boltayev Javohir, Kuziboyeva Lobar	
FRANSUZ, RUS VA O'ZBEK TILLARI SPORT TURIZMI TERMINLARINING LEKSIK-SEMANTIK VA LINGVOMADANIY XUSUSIYATLARI.....	34
Ma'rupova Gulnoz Umarjonovna	
MINTAQA IQTISODIY O'SISHIDA XIZMATLAR SOHASI TARKIBIY O'ZGARISHLARINING STATISTIK TAHLILI: XORAZM VILOYATI MISOLIDA	38
Raximov Alisher Ibragimovich	
KREDIT SKORINGIDA XULQ-ATVOR OMILLARINI BAHOLASH: NAZARIY ASOSLAR VA AMALIY QO'LLANILISHI	45
BekmurodovAbbos Amiriddinovich	
ECONOMETRIC INVESTIGATION OF AGRICULTURAL PRODUCTION ACTIVITIES IN KARAKALPAKSTAN REPUBLIC.....	49
Makhambetova Uringul Reimbaevna	
GETEROKOMPOZIT POLIMER QOPLAMALAR SIRTINING SHAKLLANISHI VA ULARNING PAXTA TOLALARI SIFATIGA TA'SIRINI TADQIQ ETISH	55
Bakirov Lutfillo Yuldoshaliyevich	
GRADIENT BOOSTING (XGBOOST) VA TEGISHLILIK FUNKSIYALARIGA TAYANGAN STATISTIK KLASSIFIKATSIYA USULINING SOLISHTIRMA BAHOLANISHI	62
Ergasheva Ma'mura Gayratovna	
QURILISH SOHASIDA KICHIK VA YIRIK BIZNES SUBYEKTLARI INTEGRATSIYASI SAMARADORLIGINI EKONOMETRIK BAHOLASH.....	69
Axmedova Nilufar Shuxratovna	
LARAVEL PLATFORMASIDA NEYROTARMOQLARNI QO'LLASH ORQALI FOYDALANUVCHI XATTI-HARAKATLARINI BASHORAT QILISH VA TAVSIYA TIZIMLARINI YARATISH	74
Jo'rayev To'xtasin, Abdusattarov Odiljon, Boymatov Mexrojiddin, Maxkamov A'zimjon, Nabijonov Abduqodir	
BEHIND THE 30% TARGET: A CONCEPTUAL FRAMEWORK FOR WOMEN'S ACADEMIC LEADERSHIP IN UZBEK UNIVERSITIES	82
Farida Nishanova	
QURILISH SANOATIDA TADBIRKORLIK FAOLIYATINI RIVOJLANTIRISH: NAZARIY-METODOLOGIK ASOSLAR VA AMALIY YONDASHUVLAR	87
Abdullayev Axror Jaxbarovich	
BALIQCILIKDA INNOVATSION TEXNOLOGIYALARNI JORIY ETISHNING OBYEKTIV ZARURIYATI.....	92
Iskandar Yunusov	



TADBIRKORLIK SUBYEKTLARINI KREDITLASHDAGI BANK KREDIT RISKLARINI PASAYTIRISH YO'LLARI	98
Toymuxamedov Ibrohim Rixsiboyevich	
KO'P KVARTIRALI UY-JOY FONDINI BOSHQARISHDA PROFESSIONAL XIZMAT KO'RSATISH TIZIMINI TAKOMILLASHTIRISHNING TASHKILIY-IQTISODIY MEKANIZMLARI	108
Rahimov Qodir Ergashevich	
НИЗКОУГЛЕРОДНАЯ ЭНЕРГЕТИКА КАК НАПРАВЛЕНИЕ ЭКОЛОГИЧЕСКОЙ МОДЕРНИЗАЦИИ ЭКОНОМИКИ УЗБЕКИСТАНА	115
Расулкулов Жамшидбек Акрамкулович	
ERKIN IQTISODIY ZONALARNING MOHIYATI VA ULARNING PRINSIPLARI	124
Ubaydullayev Muxammadjon, Akbarov Diyorbek	
RAQAMLI TRANSFORMATSIYA SHAROITIDA MEHMONXONA XIZMATLARINI AVTOMATLASHTIRISHNING IQTISODIY AFZALLIKLARI	128
Raxmonova Nigina Anvarovna	
EMPLOYEE WELL-BEING IN POST-REFORM UZBEKISTAN: A SYSTEMATIC LITERATURE REVIEW AND RESEARCH AGENDA	132
Farida Nishanova	
TIJORAT BANKLARI TOMONIDAN TADBIRKORLIK SUBYEKTLARINI MOLIALASHTIRISHNI TAKOMILLASHTIRISH MEKANIZMLARI	137
Inobatov Abror Boshlarovich	
REAL SEKTORNING INSTITUTSIONAL TARKIBI VA TRANSFORMATSIYA TENDENSIYALARI	144
Isroilova Muhabbat Rustamjon qizi	
ОБЕСПЕЧЕНИЕ РОСТА ЭКОНОМИЧЕСКОГО ПОТЕНЦИАЛА ПРЕДПРИЯТИЯ (НА ПРИМЕРЕ ФИРМЕННЫХ МАГАЗИНОВ «SAG EXPRESS»)	151
Мусаева Шоира Азимовна	
O'ZBEKISTONDA YALPI ICHKI MAHSULOT DINAMIKASINING ICHKI ISTE'MOLGA TA'SIRI	161
Djumayev Zayniddin Axmedovich	
O'ZBEKISTON TASHQI IQTISODIY FAOLIYATIDA KICHIK BIZNES O'RNINI OSHIRISHNING STATISTIK USULLARDAGI TAHLILI	166
Yadgarova Nigora Rixsulla qizi	
KATTA HAJMDAGI MA'LUMOTLARNI REAL VAQT REJIMIDA VIZUALIZATSIYA QILISH UCHUN ADAPTIVE M4 GEOMETRIK-PERSEPTUAL AGREGATSIYA ALGORITMI	170
Nuraliyev Faxriddin, Hotamov Farhod, Muxamedjonova Zuxra	
АЛГОРИТМ ОПТИМИЗАЦИИ ПРОПУСКНОЙ СПОСОБНОСТИ В РАЗВЕТВЛЁННЫХ ПАССИВНЫХ ОПТИЧЕСКИХ СЕТЯХ (PON)	175
Киямов Рахматулло Рузиевич	
MARKETING KOMMUNIKATSIYALARI ORQALI HUDUDLARNING INVESTITSION SALOHİYATINI RIVOJLANTIRISH	180
Xolmurotova Diyoraxon, Xoliyorova Shoxista	
OZIQ-OVQAT XAVSIZLIGINI TA'MINLASHDA DAVLAT STRATEGIK ZAXIRALARINING O'RNINI	184
Bazarov Nazirjon, Normurodov Alibek	
O'ZBEKISTONDA KAMBAG'ALLIKNI QISQARTIRISH VA UNI BARTARAF ETISHDA TADBIRKORLIKNING ROLI: IQTISODIY TAHLIL VA TENDENSIYALAR	190
Uzakov Sh. Sh.	
MINTAQADA TABIIY KAPITALNI JAMG'ARISHNING TASHKILIY-IQTISODIY MEKANIZMLARINI TAKOMILLASHTIRISH (XORAZM VILOYATI MISOLIDA)	196
Raximov Faxriddin Shavkatovich	
СОВРЕМЕННЫЕ ЭКОНОМИЧЕСКИЕ УГРОЗЫ ФИНАНСОВОЙ БЕЗОПАСНОСТИ СТРАХОВЫХ КОМПАНИЙ И ПРИЧИНЫ ИХ ВОЗНИКНОВЕНИЯ	201
Петр Ким	



УЧЁТ ВЫБЫТИЯ ОСНОВНЫХ СРЕДСТВ И ЕГО ВЛИЯНИЕ НА ФИНАНСОВЫЕ РЕЗУЛЬТАТЫ ОРГАНИЗАЦИИ.....	207
Туракулов Шахриёр, Пашаходжаева Дилдора HUDUDIIY IQTISODIY O'SISH DRAYVERLARINI KO'P OMILLI REGRESSION TAHLIL ASOSIDA MIQDORIY BAHOLASH (BUXORO VILOYATI TUMANLARI MISOLIDA).....	213
Ergashev Sherali Erali o'g'li NOAN'ANAVIY PUL-KREDIT SIYOSATI INSTRUMENTLARINING MAKROIQTISODIY KO'RSATKICHLARGA QISQA MUDDATLI TA'SIRINI EMPIRIK BAHOLASH	217
Djumonov Dilshod Safaroliyevich O'ZBEKISTONDA YALPI ICHKI MAHSULOT DINAMIKASINING ICHKI ISTE'MOLGA TA'SIRI	222
Djumayev Zayniddin Axmedovich JIZZAX VILOYATI KICHIK BIZNES TIZIMINING EMPIRIK MA'LUMOTLAR BAZASI VA TAVSIFIY STATISTIK TAHLILI	227
Atamuratova Gulrux Muzafarovna KIMYO SANOATI KORXONALARIDA DIVERSIFIKATSIYA SAMARADORLIGINI INTEGRAL BAHOLASH VA 2032-YILGACHA PROGNOZLASH	232
Razikov Otabek Rustamovich ИССЛЕДОВАНИЕ ТЕХНОЛОГИЧЕСКИХ ПАРАМЕТРОВ РАЗВОЛОКНЕНИЯ ПУТАНКИ	240
Одилхонова Нафиса, Атаханов Авазбек SOLIQ BOSHQARMALARIDA AGILE MENEJMENT TAMOYILLARIDAN FOYDALANISH ISTIQBOLLARINING EMPIRIK-STATISTIK TAHLILI	247
Sayfiyev Jasur Ravshanovich O'ZBEKISTON RESPUBLIKASIDA DAVLAT XARIDLARI TIZIMIDA RAQOBAT MUHITI VA SHAFFOFLIKNI TA'MINLASHNING MOLIYAVIY-IQTISODIY MEKANIZMLARINI TAKOMILLASHTIRISH	253
Rizoqulova Elnora Otabek qizi YOSHLAR TADBIRKORLIGINI RIVOJLANTIRISHNING MINTAQAVIY OMILLARI.....	260
Ergashev Erkin Iroqovich QULOQ CHANOG'I VA YUZ YON TASVIRI ASOSIDA SHAXSNI IDENTIFIKATSIYALASH.....	264
Mamatov Narzillo, Samijonov Abdurashid, Abdullaeva Barno, Usarov Jurabek ЭКОНОМИЧЕСКАЯ ЭФФЕКТИВНОСТЬ ПРИМЕНЕНИЯ РОТОРНО-УПРАВЛЯЕМЫХ СИСТЕМ (РУС) И ВИНТОВЫХ ЗАБОЙНЫХ ДВИГАТЕЛЕЙ (ВЗД) ПРИ БУРЕНИИ НЕФТЯНЫХ И ГАЗОВЫХ	271
Жахонгир Эркин угли Абдиганиев, Шерали Халлокович Умедов KO'KRAK BEZI SARATONINING MOLEKULYAR SUBTIPLARINI PROGNOZ QILISHDA MULTIPARAMETRIK MRT VA SUN'IY INTELLEKT MODELLARINING INTEGRATSIYASI	282
Sulaymanov Dilshod, Alikariyev Isroiljon ERKIN IQTISODIY HUDUDLAR VA KICHIK SANOAT ZONALARINI TASHKIL ETISH HAMDA TAKOMILLASHTIRISH ("URGUT" ERKIN IQTISODIY ZONASI MISOLIDA)	288
Yazdanov Mirjaxon G'ayrat o'g'li IQLIM O'ZGARISHLARINING HUDUD BARQAROR RIVOJLANISHIGA TA'SIRINI BAHOLASH REYTINGI: NAZARIY-USLUBIY YONDASHUV	294
Madenova Elmira Nizamatdinovna TIJORAT BANKLARI FOYDASINI SOLIQQA TORTISHNING NAZARIY JIHATLARI	300
Turanov M. Sh. BELAZ YUK MASHINALARINING SHARLI O'Q DETALLARDAGI KUCHLANISH KONSENTRATSIYASINING TAHLILI VA MUSTAHKAMLIKKA TA'SIRI.....	306
Yusupov Abdulaziz, Pushanov Akbar, Jo'raqulov Ixtiyor, Jaxonov Shoxrux ОЧИСТИТЕЛЬНАЯ СЕКЦИЯ ХЛОПКООЧИСТИТЕЛЬНОГО АГРЕГАТА С НАКЛОННЫМИ КОЛКАМИ НА КОЛКОВЫХ БАРАБАНАХ.....	311
Эргашев Рахимжон, Мавлянов Айбек, Росулов Рузимурод SUV-SUV TIZIMIDA ISSIQLIK ALMASHINISH JARAYONINI JADALLASHTIRISH	316
Karabayev Asatilla, Yo'liiyev Shukurali, Abduqayumov Jamoliddin	



HUDUDLARDA AGROTURISTIK SALOHİYATNI BAHOLASH USLUBI	323
Qodirov Azizjon, Rustamov Adhamjon, Jumayeva Ozoda	
ROI-WEIGHTED PRIMARY FRAME FILTERING FOR EFFICIENT DEEP VIDEO SURVEILLANCE	329
Shohruh Begmatov, Mukhriddin Arabboev, Akhram Nishanov	
RAQAMLI IQTISODIYOT SHAROITIDA MINTAQAVIY RAQOBATBARDOSHLIKNI OSHIRISHDA SUN'YI INTELLEKTDAN FOYDALANISH IMKONIYATLARI	340
Sharipova Munojot Murodullayevna	
ЭКОНОМИЧЕСКИЙ АНАЛИЗ ДОХОДОВ И РАСХОДОВ ПО ФИНАНСОВОЙ ДЕЯТЕЛЬНОСТИ В ПРОИЗВОДСТВЕННОЙ ОРГАНИЗАЦИИ	348
Баходиров Азизжон Баходирович, Пашаходжаева Дилдора Джабборхоновна	
KICHIK BIZNES SUBYEKTLARIDA XARAJATLAR HISOBINI TAKOMILLASHTIRISH YO'NALISHLARI.....	353
Isomuxamedov Akbarjon Bahodir o'g'li	
BUYUK BRITANIYADA BILVOSITA SOLIQLAR TIZIMINING EVOLYUTSIYASI	359
Malika Sharipova Maxmudjon qizi	
TEMIR YO'L TRANSPORTI RAQOBATBARDOSHLIGINI BAHOLASHNING BESH BOSQICHLI REYTING SHKALASI: METODOLOGIK ASOSLAR VA AMALIY TATBIQ ("O'ZBEKISTON TEMIR YO'LLARI" AJ MISOLIDA)	367
Fayzullayev Javlonbek Sultonovich	
«ВОЗНИКНОВЕНИЕ И РАЗВИТИЕ КОНЦЕПЦИИ ЦИРКУЛЯРНОЙ ЭКОНОМИКИ В МИРОВОЙ ЭКОНОМИЧЕСКОЙ МЫСЛИ»	372
Ким Т.В.	
XUSUSIY UNIVERSITETLARNI IQTISODIY QO'LLAB-QUVVATLASHNING ICHKI MANBALARI: BALANS TARKIBI VA AKTIVLARNI KAPITALLASHTIRISH TAHLILI	378
Rahimov Sardor Uralovich	
ЭКОНОМИЧЕСКИЙ АНАЛИЗ ИСПОЛЬЗОВАНИЯ ОСНОВНЫХ СРЕДСТВ В ПРОИЗВОДСТВЕННОЙ ОРГАНИЗАЦИИ	383
Кадыров Арслан, Пашаходжаева Дилдора	
RAQAMLI BANK ISHI: ZAMONAVIY TENDENSIYALAR, INNOVATSIYALAR VA RIVOJLANISH ISTIQBOLLARI (O'ZBEKISTON MISOLIDA).....	388
Shokirov Sardor Inotdullo o'g'li	
O'ZBEKISTONDA MULTIMODAL TRANSPORT-LOGISTIKA INFRATUZILMASINI RIVOJLANTIRISHGA INVESTITSİYALARNI JALB ETISH MEKANIZMLARINI TAKOMILLASHTIRISH.....	393
Malikova Shoira Baxtiyorovna	
BUXORO VILOYATI OZIQ-OVQAT SANOATINI SIRKULAR IQTISODIYOT ASOSIDA RIVOJLANTIRISH ...	398
Kudratov Muhammad Rustamovich	
TIBBIY XIZMATLAR BOZORINING TASHKILIY VA INSTITUTSIONAL TUZILMASI	402
Abdumalikov Shoxjahan Jaloliddin o'g'li	
BIZNES TAHLILIDA KATTA MA'LUMOTLAR VA SUN'YI INTELLEKTDAN FOYDALANISHNING IQTISODIY SAMARADORLIGI.....	407
Umarov Abbos Nuriddin o'g'li	
MINTAQA SANOATINI RIVOJLANTIRISHNING USTUVOR YO'NALISHLARI VA IQTISODIY O'SISHGA TA'SIRI.....	414
Oramov Jahongir, Muxitdinov Xudayar	
POSE-AWARE FACE SELECTION FOR IMPROVING FACE IDENTIFICATION RELIABILITY	419
Shohruh Begmatov	
O'ZBEKISTONDA EKSPORT UCHUN MEVA-SABZAVOT YETISHTIRISH VA UNI SUG'URTALASHNI DAVLAT TOMONIDAN QO'LLAB-QUVVATLASH	433
Kalenov K.T.	
INNOVATSION MOLIVAVIY INSTRUMENTLARDAN FOYDALANISH ORQALI SUG'URTA FAOLIYATINING INVESTITSION JOZIBADORLIGINI OSHIRISH.....	438
Ergashev Olim Kenjayevich	



CUSTOMS PROCEDURES AND TRADE FACILITATION CHALLENGES IN UZBEKISTAN'S CROSS-BORDER TRADE: A POLICY REVIEW	444
Khanifakhon Solikhova	
SOLIQ BOSHQARMALARIDA AGILE MENEJMENT TAMOYILLARIDAN FOYDALANISH	
ISTIQBOLLARINING EMPIRIK-STATISTIK TAHLILI	449
Sayfiyev Jasur Ravshanovich	
THE DIGITAL GASTRONOME: HOW TECHNOLOGY CONNECTS TOURISTS, RESTAURANTS, AND THE TECH EMPIRE.....	455
Freshta Qayoumy	
ВОЗНИКНОВЕНИЕ И РАЗВИТИЕ КОНЦЕПЦИИ ЦИРКУЛЯРНОЙ ЭКОНОМИКИ В МИРОВОЙ ЭКОНОМИЧЕСКОЙ МЫСЛИ.....	462
Т.В. Ким	
OLIY TA'LIM MUASSASALARINI STRATEGIK BOSHQARISHDA RAQAMLI TRANSFORMATSIYANING ZAMONAVIY YONDASHUVLARI: SUN'IY INTELLEKT, BIG DATA, LEARNING ANALYTICS VA DATA-DRIVEN GOVERNANCE.....	468
O'ktamova Durdona Baxtiyor qizi	
XO'JALIK YURITUVCHI SUBYEKTLAR MOLIVAVIY RESURSLARINING IQTISODIY MOHIYATI VA NAZARIY ASOSLARI	474
Tangriyeva Farida Abdulkarimovna	
O'ZBEKISTONDA MOSH EKSPORTINING RAQOBATBARDOSHLIGINI OSHIRISH: RCA INDEKSI, QO'SHILGAN QIYMAT VA EKSPORT ZANJIRI TAHLILI.....	479
Islamova Malika Ilyos qizi, Muhammad Ali Hakimovich Saidov	
ФИНТЕХ-РЕШЕНИЯ ДЛЯ МАЛОГО И СРЕДНЕГО БИЗНЕСА: ЦИФРОВЫЕ ПЛАТЕЖИ, КРАУДФАНДИНГ И ДОСТУП К КАПИТАЛУ	485
Ли Д. Э.	
KATTA HAJMDAGI MA'LUMOTLAR TO'PLAMIDA ANOMALIYALARNI ANIQLASH UCHUN K-MEANS VA DBSCAN ALGORITMLARINING NAZARIY OPTIMALLASHUV MODELLARI.....	489
Jo'rayev Sherali Umarjonovich	
SUG'URTA KOMPANIYALARINING MOLIVAVIY XAVFSIZLIGINI TA'MINLASHDA RAQAMLI TEKNOLOGIYALAR O'RNI.....	497
Pyotr Kim	
ИССЛЕДОВАНИЕ ТЕХНОЛОГИИ СВАРКИ МАГНИЕВЫХ СПЛАВОВ	503
Эрматов Зиядулла, Садуллаева Бувалма	
ZINGIBER OFFICINALE ROSC. IN VITRO MADANIYATIDA MIKRORIZOMOGENEZ VA KALLUS REGENERATSIYASINI NANOSTRUKTURALI ELITSITORLASH VA VAQTINCHALIK IMMERSION TIZIMLARI (TIS) YORDAMIDA JADALLASHTIRISHNING MOLEKULAR-GENETIK VA FIZIOLOGIK ASOSLARI	508
Shamsiddinova Shahrizoda	
RAQAMLI IQTISODIYOT SHAROITIDA B2B MODELIDAGI BIZNES JARAYONLARINI OPTIMALLASHTIRISH: KIMYO SANOATI MISOLIDA TAHLIL	513
Xaydarova Kamola Axinjanovna	
TIJORAT BANKLARI AKTIVLARI PORTFELI SAMARADORLIGINI TA'MINLASHNING ILMIY-METODOLOGIK ASOSLARINI TAKOMILLASHTIRISH	518
Xojiyev Jaxongir Dushabayevich	
FERMER XO'JALIKLARINING XALQARO BOZORLARGA INTEGRATSIYALASHUVI SALOHİYATINING 2032-YILGACHA ISTIQBOL PROGNOZI	524
Tursunqulov G'olibjon Shavkat o'g'li	
RAQAMLI TEKNOLOGIYALARNING SUG'URTA TASHKILOTLARI FAOLIYATI SAMARADORLIGIGA TA'SIRI	533
Nomozova Qumri Isoyevna	



TURIZM TRANSPORTI LOGISTIKASIDA MENEJMENT TIZIMINING METODOLOGIK YONDASHUVLARI VA AMALIYOTI	539
Atamurodov Ulug'bek Nizamkulovich	
INGICHKA BOYITISH FABRIKASI TEXNOGEN CHIQINDILARIDAN VOLFRAMNI KOMBINATSIYALASHGAN GRAVITATSION VA ELEKTROMAGNIT BOYITISH USULLARI YORDAMIDA AJRATIB OLISH.....	544
Boymurodov Najmiddin Abduqodirovich, Temirov Kamoliddin Abdinazar o'g'li	
TURLI TOLA TARKIBLI KOSTYUMBOP MATOLARNING SIFAT KO'RSATKICHLARINI TO'LIQ OMILLI EKSPERIMENT ASOSIDA BAHOLASH	550
M. R. Atanafasov, Daniyor Kholmurodovich Sobirov	
BOSHQARUV TAHLILI ASOSIDA XIZMAT KO'RSATISH KORXONALARI SAMARADORLIGINI BAHOLASHNING AMALIY JIHATLARI.....	554
Yahyoyev To'liqin Ismatulla o'g'li	
TIJORAT BANKLARINING LIKVIDLILIGINI TA'MINLASH MASALALARI	558
Tojiyev Rahmatilla Rahmonovich	
O'ZBEKISTONDA INVESTITSIYA LOYIHALARINI BAHOLASH TIZIMINI TAKOMILLASHTIRISH.....	563
Mamatov Baxodir, Raupov Akbar	
STRENGTHENING STATE FINANCIAL ASSISTANCE TO FOSTER ENTREPRENEURSHIP AMONG LOW- INCOME FAMILIES.....	570
Erejepov Kuwanishbay Jienbay uli	
BOG'DORCHILIK XO'JALIKLARIDA INVESTITSİYALAR IQTISODIY SAMARADORLIGINING DETERMINANTLARI: SAMARQAND VILOYATI MISOLIDA.....	575
Jalilov Shohruh Zafar o'g'li	
КОЛИЧЕСТВЕННАЯ ОЦЕНКА И РЕАЛИЗАЦИЯ РЕЗЕРВОВ РОСТА ЭКОНОМИЧЕСКОЙ ЭФФЕКТИВНОСТИ ГОРНО-ХИМИЧЕСКОГО ПРЕДПРИЯТИЯ (НА ПРИМЕРЕ АО «ДЕХКАНАБАДСКИЙ ЗАВОД КАЛИЙНЫХ УДОБРЕНИЙ»)	581
Мирсаидова Шахноза Арсланбековна	
MIKRO XIZMAT KO'RSATUVCHILARNI RASMIYLASHTIRISH VA MILLIY PLATFORMAGA INTEGRATSIYALASHNING TASHKILIY-IQTISODIY MEKANIZMI	588
Muzaffarov Akmal Axmadovich	
O'ZBEKISTONDAGI YETAKCHI TIJORAT BANKLARINING AKTIVLARI VA PASSIVLARINING TAHLILI ..	594
Shodiyev Odiljon Salim o'g'li	
QORAQALPOG'ISTON RESPUBLIKASI SANOAT KORXONALARINING ISHLAB CHIQARISH FAOLIYATINI STATISTIK TAHLILI	598
Allaniyazova Aysara Muratovna	
SENTIMENT-BASED EVALUATION OF EMOTIONAL EXPERIENCE IN UX: A CASE STUDY ON DUOLINGO USER FEEDBACK.....	603
Diyorbek Yusufjonov	
DAROMAD SOLIG'I YUKINING SOLIQ TO'LOVCHILARI TARKIBI	607
Sabirov Mirza Qilichbayevich	
ФИНАНСИРОВАНИЕ ИННОВАЦИОННЫХ ПРОЕКТОВ СУБЪЕКТОВ БИЗНЕСА: ОПЫТ ЗАРУБЕЖНЫХ СТРАН	611
Жубанова Байрамгул Аймуратовна	
QISHLOQ XO'JALIGIDA IQTISODIY MUNOSABATLARNI AMALGA OSHIRISHNING EKONOMETRIK MODELLARI	616
Aydaniyazova Baxtigul Abilkasimovna	
INVESTIGATION OF STRUCTURAL FORMATION MECHANISMS IN HYBRID COMPOSITE MATERIALS BASED ON POLYPROPYLENE (PP) AND POLYETHYLENE (PE).....	620
U.A. Ziyamukhamedova, L.Y. Bakirov, E.T. Turgunaliyev, A.F. Soliev, M.Sh. Abdulakimov	
TRANSFORMATSIYA SHAROITIDA TIJORAT BANKLARINING QIMMATLI QOG'OZLAR BOZORIDAGI FAOLIYATI ISTIQBOLLARI.....	630
Saipnazarov Sherbek Shaylavbekovich	



BOJXONA YIG'IMLARINI UNDIRISH SAMARADORLIGINI OSHIRISH YO'LLARI	636
Jurayev Jonibek Javliyevich	
TOSHKENT SHAHRIDA UY-JOY FONDINING HOZIRGI HOLATI VA BOSHQARUV TIZIMI TAHLILI.....	641
Mamanazarov Oybek Shomurodovich	
RAQAMLI TRANSFORMATSIYA SHAROITIDA KICHIK BIZNES SUBYEKTLARI UCHUN INNOVATSION BANK MAHSULOTLARINI YARATISH VA ULARNI TARG'IB ETISHNI TAKOMILLASHTIRISH	646
Shodmonova Sadoqat Jo'raqobil qizi	
"O'ZBEKISTON MILLIY ELEKTR TARMOQLARI" AJ ENERGETIKA TIZIMINING HUDUDiy RIVOJLANISH YO'NALISHLARI	652
Xakimjanova Surayyo Xabibullayevna	
HUDUDLARNI IQTISODIY RIVOJLANTIRISHDA BUDJETLARARO TRANSFERTLARNING AHAMIYATI .	656
Hakimov Feruz Xurshid o'g'li	
GAZNI QAYTA ISHLASH KORXONALARIDA BARQAROR RIVOJLANISH HOLATINING IQTISODIY TAHLILI VA BAHOLASH	662
Kudratkhodjaeva Ziyoda Kamol qizi	
STRATEGIC MANAGEMENT OF HIGHER EDUCATION UNDER CHANGING REGULATORY CONDITIONS	666
Khumoyun Avezov	



STRATEGIC MANAGEMENT OF HIGHER EDUCATION UNDER CHANGING REGULATORY CONDITIONS

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Abstract. This study examines strategic management practices in higher education institutions under rapidly changing regulatory conditions. The expansion of higher education, increasing public accountability, globalization, digital transformation and international competition have fundamentally changed the governance environment of universities. Using a conceptual and analytical approach based on contemporary regulatory governance literature, this article investigates how universities adapt to increasingly complex systems of oversight, competition and meta-regulation. The findings demonstrate that modern universities are required to balance institutional autonomy with accountability, international competitiveness and social responsibility. The study proposes reflexive and adaptive governance approaches that enable higher education institutions to respond strategically to regulatory pressures while maintaining their academic missions and institutional values.

Keywords *Higher education management, university governance, regulation, meta-regulation, institutional autonomy, strategic management, quality assurance.*

INTRODUCTION

Universities historically functioned as self-governing communities of scholars primarily concerned with teaching and knowledge creation. However, the expansion of higher education systems during the twentieth and twenty-first centuries substantially transformed their relationship with governments and society [1]. Increasing public investment, massification of higher education and global competition have generated demands for greater transparency, quality assurance and evidence of institutional performance.

The contemporary higher education environment is characterized by increasing governmental oversight, market-oriented reforms and transnational mechanisms of regulation. Universities today operate within an ecosystem involving ministries, accreditation agencies, ranking systems, international organizations and multiple stakeholders. Consequently, strategic management has become an essential capability for higher education institutions seeking to maintain institutional autonomy while satisfying public expectations [2].

LITERATURE REVIEW

Universities historically operated as autonomous communities of scholars characterized by self-governance and collegial decision-making processes. However, the massification of higher education and growing public investment significantly transformed the relationship between governments and universities, creating increasing demands for quality, accessibility, and accountability [2], [9]. Black, J. (2001) argued that contemporary regulation extends beyond traditional hierarchical mechanisms and increasingly relies on networks, community-based controls, and competitive instruments. According to this perspective, regulation has become decentralized and multi-actor in nature, involving governmental and non-governmental organizations simultaneously [3].

Comparative research conducted by Hood et al. (2004) demonstrated that higher education systems have gradually shifted from mutuality-based governance toward increasing dependence on oversight and competition mechanisms. Universities increasingly operate within mixed regulatory environments where hierarchical controls coexist with market-based mechanisms and performance-oriented management systems [1]. The emergence of global university rankings has generated additional regulatory pressures on higher education institutions. Hazelkorn (2011) emphasized that ranking systems significantly influence institutional strategies, organizational priorities, and resource allocation decisions. Universities increasingly compete for



reputation, talented students, academic staff, and research funding, encouraging strategic transformation and internationalization initiatives [5]. Studies on university autonomy have shown considerable variation in organizational, financial, staffing, and academic autonomy among European higher education systems. Nevertheless, institutional autonomy and accountability should be regarded as complementary components of effective governance systems [10].

Another important contribution to the literature is the concept of meta-regulation. This approach emphasizes steering the self-regulatory capacities of institutions rather than imposing direct control mechanisms and encourages universities to establish internal governance structures and organizational learning systems while preserving institutional autonomy [3],[4]. Furthermore, contemporary universities increasingly require integrated governance systems that combine collegial, bureaucratic, corporate, and entrepreneurial management approaches. Adaptive and reflexive governance mechanisms are therefore necessary for responding effectively to rapidly changing regulatory environments [7], [8].

Overall, previous studies indicate a clear transformation from traditional self-governance toward more complex and multi-layered regulatory systems characterized by oversight, competition, and meta-regulation, while universities continue to retain significant levels of institutional autonomy and remain active participants in defining their strategic priorities [1], [3], [10].

RESEARCH METHODOLOGY

This study employs a qualitative conceptual research design based on document analysis and comparative review of higher education governance literature. The analysis is grounded in studies concerning university autonomy, regulatory governance, international rankings and quality assurance systems.

A systematic review approach was adopted to examine publications addressing higher education governance, institutional autonomy and strategic management. The reviewed literature includes international studies published by the OECD, research on university rankings, and regulatory governance scholarship.

The analytical framework of the study is based on four regulatory mechanisms: mutuality, oversight, competition and meta-regulation. These mechanisms provide a comprehensive perspective for understanding contemporary governance transformations and their implications for institutional management.

ANALYSIS AND RESULTS

The analysis demonstrates that higher education governance has undergone significant transformation over the last two decades. Universities increasingly operate within environments characterized by intensified accountability requirements and competition for students, staff and research resources.

Government oversight mechanisms have expanded considerably through quality assurance systems, performance evaluations and funding arrangements linked to measurable outcomes. Simultaneously, international rankings and global competition have emerged as powerful regulatory mechanisms shaping institutional strategies. As shown in **Table 1**, higher education governance in OECD countries demonstrates varying levels of reliance on mutuality, oversight and competition-based regulatory mechanisms, with the United States exhibiting the highest intensity of competition-oriented governance [1].

The findings indicate that contemporary regulation no longer depends exclusively on hierarchical control. Instead, regulation increasingly adopts meta-regulatory characteristics in which universities are encouraged to establish internal mechanisms of self-assessment and strategic planning while remaining accountable for outcomes [3].

The results further indicate that institutional autonomy remains a fundamental prerequisite for effective performance. Universities that successfully integrate strategic planning, stakeholder participation and organizational learning demonstrate greater adaptability to changing external environments (Table 1).

Table 1

Governance Mode	Low Intensity	Medium Intensity	High Intensity
Mutuality	United States, United Kingdom	Australia, France, Germany, Norway, Japan, Netherlands	–
Oversight	United States	Australia, France, Germany, Norway, Japan, Netherlands, United Kingdom	–
Competition	France, Germany, Norway, Japan, Netherlands	Australia, United Kingdom	United States
Contrived Randomness	Australia, France, Germany, Norway, Japan, Netherlands, United States	–	–

Source: Adapted from Hood, C., James, O., Peters, G., and Scott, C. (2004). Controlling Modern Government: Variety,

Commonality and Change. Edward Elgar Publishing, p. 82.

The findings of this study indicate that strategic management has become an indispensable component of contemporary higher education governance. The expansion of higher education systems, increasing public investment, globalization, and digital transformation have fundamentally altered the regulatory environment in which universities operate. Consequently, higher education institutions can no longer rely exclusively on traditional collegial governance structures and are increasingly required to develop adaptive and integrated management systems that can respond effectively to rapidly changing external conditions [2], [9].

The original evidence further demonstrates that the transformation of higher education governance has been driven by the growing expectation that universities should demonstrate quality, efficiency, accessibility, and value for money in exchange for public funding. As higher education has become an important instrument of national economic and social development, governments have introduced increasingly sophisticated mechanisms of monitoring and accountability. This transition has shifted governance arrangements from predominantly funding-based approaches toward more explicitly regulatory forms of oversight [1], [2]. The contemporary regulatory environment is characterized by a combination of mutuality, oversight, competition, and meta-regulatory mechanisms. Traditional collegial practices continue to play an important role in academic activities such as peer review, promotions, and research evaluation. However, these mechanisms are increasingly supplemented by hierarchical oversight through quality assurance systems, performance evaluations, and reporting requirements. Simultaneously, competitive mechanisms associated with rankings, research grants, and international student recruitment have emerged as influential drivers of institutional behaviour [1], [6].

The increasing internationalization of higher education has substantially intensified competitive pressures among universities. The remarkable growth in international student mobility and the emergence of global university rankings have transformed higher education into an increasingly competitive global market. Universities now compete not only for students and financial resources but also for academic reputation, research excellence, and highly qualified faculty members. Consequently, institutional leaders are increasingly compelled to redesign governance structures and strategically allocate resources to improve competitiveness and international visibility [5], [9].

The findings also indicate that contemporary higher education regulation can no longer be understood solely in terms of hierarchical government control. The proliferation of supranational organizations, quality assurance networks, professional accreditation agencies, ranking organizations, and international university associations has generated a fragmented and highly interconnected regulatory environment. Universities therefore operate within a multi-layered governance system in which various actors simultaneously influence institutional priorities, decision-making processes, and performance expectations [3], [6]. Despite the increasing intensity of external regulation, institutional autonomy remains a fundamental prerequisite for effective university performance. The original study strongly argues that universities should not be perceived merely as passive recipients of public policy directives. Instead, they remain autonomous institutions capable of defining their missions, values, and strategic priorities. Accountability and autonomy should therefore be regarded as complementary rather than contradictory principles of higher education governance. Universities are expected to demonstrate public value and accountability while simultaneously preserving their capacity for independent decision-making and knowledge creation [10].

One of the most significant developments identified in the literature is the emergence of meta-regulation as a mechanism for reconciling institutional autonomy and external accountability. Rather than prescribing detailed institutional actions, meta-regulatory approaches establish broad expectations and encourage universities to determine their own methods of implementation. Strategic dialogue mechanisms, student surveys, quality assurance systems, and university rankings all function as forms of meta-regulatory steering because they influence institutional behaviour without eliminating organizational autonomy [3], [4]. The evidence further suggests that increasing regulatory complexity requires universities to adopt multiple management approaches simultaneously. Collegial governance remains appropriate for activities governed by disciplinary norms and academic expertise. Bureaucratic approaches facilitate compliance with financial, legal, and quality assurance requirements. Corporate management systems strengthen institutional coordination through strategic planning and performance indicators, while entrepreneurial approaches promote flexibility and responsiveness to emerging opportunities. No single governance model is sufficient for managing contemporary universities. Instead, successful institutions combine various management approaches according to the nature of specific challenges and regulatory demands [7], [8].

Finally, reflexive governance emerges as the most appropriate strategic response to increasingly complex regulatory environments. Reflexive governance emphasizes continuous learning, stakeholder participation, self-assessment, and adaptive decision-making processes. Rather than merely complying with externally imposed requirements, reflexive institutions actively interpret external pressures, align them with organizational values and missions, and transform them into opportunities for innovation and institutional development. Such an approach enables universities to preserve their identity and autonomy while simultaneously improving accountability, effectiveness, and long-term sustainability [4]. Therefore, strategic management in higher education should not be understood simply as a mechanism of regulatory compliance. Rather, it constitutes a dynamic institutional capability that enables universities to integrate organizational



learning, institutional autonomy, and external accountability into coherent governance systems capable of responding effectively to increasingly complex and rapidly changing regulatory conditions (Figure 1).

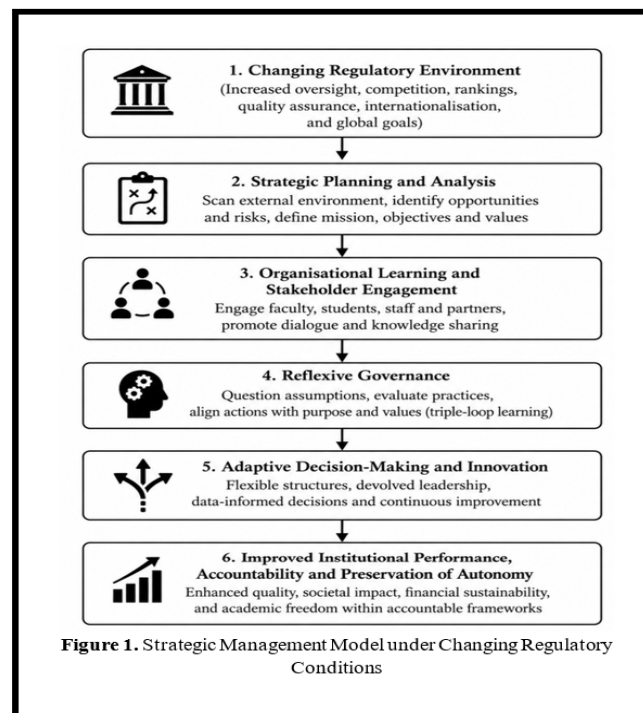


Figure 1 illustrates how universities can transform external regulatory pressures into opportunities for organisational learning and strategic adaptation. Through reflexive governance, higher education institutions are able to preserve institutional autonomy while simultaneously improving accountability and performance outcomes [1], [7].

Source: Developed by the author based on Parker (2002), Scott (2008), McCaffrey (2018), and the conceptual framework presented in *Managing Higher Education for a Changing Regulatory Environment* [1], [7], [8].

Higher education institutions should establish integrated governance systems that combine strategic planning, evidence-based decision-making, stakeholder participation and continuous assessment mechanisms. Institutional leaders should strengthen organizational capacities for data analysis, risk management and quality enhancement. Governments and regulatory agencies should preserve sufficient institutional autonomy while promoting accountability and public value. The balance between autonomy and regulation remains one of the principal determinants of sustainable higher education development.

5. Conclusion and suggestions

Higher education regulation has evolved from predominantly collegial systems toward increasingly complex frameworks characterized by oversight, competition and meta-regulation. Universities are required to operate simultaneously as autonomous academic institutions and accountable public organizations.

Strategic management therefore becomes an essential institutional capability. Effective universities are those capable of integrating institutional autonomy, external accountability and organizational learning into coherent governance systems. Reflexive governance approaches provide significant opportunities for responding constructively to regulatory challenges while preserving institutional identity and academic values.

The future development of higher education will increasingly depend upon universities' ability to transform regulatory pressures into drivers of innovation, institutional learning and sustainable development. Consequently, adaptive strategic management should be considered a central component of contemporary university governance.

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