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CONTENTS

GROWTH TRENDS IN ELECTRICITY CONSUMPTION IN UZBEKISTAN AND PROBLEMS OF MODERNIZING THE GRID INFRASTRUCTURE.....	20
Bobobekov Ergash Abdumalikovich	
DETERMINANTS OF THE INTENTION TO PARTICIPATE IN FAMILY TAKAFUL IN A PREMARKET SETTING: A STRUCTURED REVIEW OF THE EVIDENCE AND A CONCEPTUAL FRAMEWORK FOR UZBEKISTAN.....	24
Usmanov Nematjon Gulomovich	
TOURISM RESOURCE EFFICIENCY AND SUSTAINABLE REGIONAL SERVICE SECTOR DEVELOPMENT: AN EMPIRICAL ASSESSMENT OF UZBEKISTAN	40
Safarov Bahadirkhon Shaxriyrovich	
Toshkhujaev Mustafokhon Abduvosi ugli	
TERRITORIAL DISPARITIES IN EMPLOYMENT EFFICIENCY IN KHOREZM REGION: ASSESSMENT AND POLICY DIRECTIONS	47
Azadova Gulnoza Sardorbekovna	
ЦИФРОВАЯ ЭКОНОМИКА КАК ДРАЙВЕР ЭКОНОМИЧЕСКОГО РОСТА.....	55
Динара Ташевна Гафарова	
DIGITAL PLATFORM-BASED TRANSFORMATION OF ENTERPRISE E-COMMERCE SYSTEMS: FACTORS, EFFICIENCY AND DEVELOPMENT PROSPECTS	59
Tuychiyev Shavkatjon Shokirali o'g'li	
WAYS TO OPTIMALLY ORGANIZE AND IMPROVE DIRECT TAXATION IN UZBEKISTAN	68
Kadyrov Bahodir Kudratovich	
EFFICIENCY OF SMALL AND MEDIUMSIZED BUSINESS FINANCING BASED ON MUSHARAKAH: AN ANALYSIS OF OPPORTUNITIES AND RISKS.....	73
Kenjaeva Durdona Ravshan qizi	
СОВЕРШЕНСТВОВАНИЕ БЮДЖЕТНОГО УЧЕТА В РЕСПУБЛИКЕ УЗБЕКИСТАН В УСЛОВИЯХ ЦИФРОВИЗАЦИИ И УСИЛЕНИЯ ГОСУДАРСТВЕННОГО ФИНАНСОВОГО КОНТРОЛЯ	79
Джамбакиева Гулнора Сайфутдиновна	
ANALYSIS OF INDICATORS OF HUMAN CAPITAL UTILIZATION AND LABOR RELATIONS EFFICIENCY IN THE SMALL BUSINESS SECTOR	89
Ulugmuradova Nodira Berdimuradovna	
THE EFFECT OF MANDATORY IFRS ADOPTION ON EQUITY GROWTH OF UZBEK PUBLIC INTEREST ENTITIES (PIEs).....	96
Mokhirjon Shavkatov Omon o'g'li	
METHODS FOR ASSESSING THE IMPACT OF SMALL BUSINESS DEVELOPMENT ON NATIONAL ECONOMIC GROWTH.....	103
Akmaljon Adkhamovich Ermatov	
LEGISLATION AS AN ENABLER OF MARKET FORMATION: THE SIGNIFICANCE OF ADOPTING ISLAMIC BANKING PRINCIPLES FOR THE DEVELOPMENT OF ISLAMIC FINANCE IN UZBEKISTAN.....	111
Sultanov Bakhtiyor Bakhodirovich	
ANALYSIS OF REGIONAL INTEGRATION PROCESSES INTO FOREIGN MARKETS.....	117
Ozodova Farida Zarif kizi	
FINANCIAL INTENSITY AND YOUTH ENTREPRENEURSHIP IN UZBEKISTAN: EVIDENCE FROM A TWO-WAY FIXED-EFFECTS REGIONAL PANEL MODEL	122
Isakjanova Saboxat	

ENHANCING BIG DATA SOLUTIONS IN THE TOURISM INDUSTRY ECONOMIC EFFICIENCY AND FORECASTS INDICATORS.....	131
Temirov E.I.	
DEVELOPING AN AI-BASED CONTINUING MEDICAL EDUCATION SYSTEM: A COMPARATIVE ANALYSIS OF NATIONAL AND INTERNATIONAL SCHOLARLY APPROACHES	141
Nazarov Bakhrom Mustafayevich	
ADAPTIVE MANAGEMENT MECHANISM BASED ON A RESILIENT VALUE CHAIN FOR THE STRATEGIC SUSTAINABLE DEVELOPMENT OF AGROCLUSTER ACTIVITIES	147
Abdumalik Hakimovich Berdiyev	
INTERNATIONAL PRACTICE: TAX INCENTIVES FOR INVESTMENT	153
Fazliev Farrukh Fakhriddinovich	
AN ANALYSIS OF LEADING FOREIGN BANKS' PRACTICES IN APPLYING ARTIFICIAL-INTELLIGENCE-BASED MANAGEMENT SYSTEMS FOR CREDIT RISK ASSESSMENT AND THE EARLY DETECTION OF PROBLEM LOANS.....	160
Alovuddin Jamolov	
DIGITAL FINANCIAL INCLUSION AS A DRIVER OF WOMEN'S ENTREPRENEURSHIP AND POVERTY REDUCTION: EVIDENCE FROM UZBEKISTAN	164
Ulashova Zarnigor Botirali qizi	
INDUSTRIAL DEVELOPMENT AND ENVIRONMENTAL SECURITY: THEORETICAL AND METHODOLOGICAL FOUNDATIONS FOR A REGIONAL ANALYSIS OF UZBEKISTAN.....	168
Erkaeva Bibirobiya Kamoladdin kizi	
PROSPECTS FOR THE USE OF GREEN FINANCE INSTRUMENTS IN FINANCING THE EXPORT ACTIVITIES OF ENTERPRISES	175
Turaeva Yulduz Shamsiddin qizi	
IMPROVING THE MANAGEMENT SYSTEM OF PRIVATE SCHOOLS BASED ON INNOVATIVE TECHNOLOGIES. METHODS USED: SEM, AHP.....	184
Shohida Esanova	
IMPROVING THE INTERNAL AUDIT OF FINANCIAL ERRORS AND IRREGULARITIES IN BUDGET ORGANIZATIONS THROUGH A RISK-BASED APPROACH	194
Mulayev Farkhod Alisherovich	
MODELS FOR ATTRACTING INVESTMENT TO THE INDUSTRIAL SECTOR AND ENSURING ITS EFFICIENT USE.....	200
Choriev Tolib Azamovich	
DIGITAL TECHNOLOGIES AND INNOVATIVE APPROACHES TO INSURING FOREIGN ECONOMIC ACTIVITY RISKS.....	208
Raximov Timur Furqatovich	
RELATIONS BETWEEN THE CENTRAL BANK AND COMMERCIAL BANKS IN UZBEKISTAN: INDEPENDENCE, POLICY TRANSMISSION AND COMPETITION	215
Abdulazizova Ugiloy	
ACCOUNTING IN THE INFORMATION SUPPORT SYSTEM OF ENTERPRISE FINANCIAL CONTROL	223
Rano Abrorovna Mannapova	
NATIONAL FASHION ELEMENTS AS A MEDIATOR BETWEEN TOURISM EXPERIENCE AND DESTINATION BRAND EQUITY: THE NF-DBE MODEL AND A FIELD RESEARCH PROTOCOL.....	228
Yusupova Mokhinur Farkhod qizi	
THE CONCEPT, CLASSIFICATION, AND THEORIES OF THE USE OF ECONOMIC RESOURCES.....	238
Alimov Muxammadbobur Ibragimjonovich	

ECONOMETRIC ASSESSMENT OF THE RELATIONSHIP BETWEEN THE SHADOW ECONOMY AND HOUSEHOLD WELFARE IN UZBEKISTAN	242
Afenov Nursultan Nugmatillaevich	
МАСТЕР-ПЛАН, ОРИЕНТИРОВАННЫЙ НА СОКРАЩЕНИЕ БЕДНОСТИ: КОНЦЕПЦИЯ ТЕРРИТОРИАЛЬНОГО ПЛАНИРОВАНИЯ ТРЕТЬЕГО ПОКОЛЕНИЯ	247
Мухамедова Мадинабону Мехридиновна	
THE CURRENT STATE AND DYNAMICS OF WOMEN'S PARTICIPATION IN THE STATE CIVIL SERVICE	257
Abduraxmonova Feruzabonu Abduraxmon qizi	
ASSESSING THE IMPACT OF AGRICULTURAL PRODUCT ASSORTMENT DIVERSIFICATION ON MARKET STABILITY	265
Xudayberganov Jasur Baxodirovich	
ИННОВАЦИОННЫЕ ПОДХОДЫ К ПОВЫШЕНИЮ ЭФФЕКТИВНОСТИ РАЗВИТИЯ МСБЕ-ТУРИЗМА	273
Нарзуллаева Фариза Акмалевна	
DEVELOPMENT FACTORS AND CONTEMPORARY TRENDS OF THE FOOD INDUSTRY IN UZBEKISTAN: AN ECONOMIC AND STATISTICAL ANALYSIS	278
Gulira'no Abasova	
PROSPECTS FOR THE DEVELOPMENT OF ISLAMIC BANKS AND FINANCE IN UZBEKISTAN	285
Khamdam Atabaevich Babajanov	
WTO ACCESSION AND ECONOMIC GROWTH: SECTORAL EVIDENCE FROM CHINA AND IMPLICATIONS FOR UZBEKISTAN	291
Abdullayev Axrorjon	
ЭКОНОМИЧЕСКИЙ МЕХАНИЗМ РАЗВИТИЯ ЗЕЛЁНОГО ТУРИЗМА В УСЛОВИЯХ ЦИФРОВИЗАЦИИ ЭКОНОМИКИ РЕГИОНА	297
Нозимов Эльдор Анварович	
DEVELOPING AN INTER-SCHOOL TERRITORIAL CLUSTER MANAGEMENT MODEL FOR THE ORGANIZATION OF INCLUSIVE EDUCATION	305
Rajapova Guldona Usman kizi	
ISLAMIC FINANCE AND THE SDGS IN DUAL SYSTEMS: A SELECTIVE-CHANNELS VIEW	310
Isroilov Obid Olimjonovich	
РАЗВИТИЕ БИЗНЕСА И ОБЩЕСТВА В УСЛОВИЯХ ЦИФРОВОЙ ТРАНСФОРМАЦИИ	317
Тарават Абдул Салам	
THE MAIN METHODS, TOOLS, AND FEATURES OF IMPROVING EMPLOYEE LABOR DISCIPLINE	323
Azizova Sayyora Xamidullaevna	
ИНВЕСТИЦИОННО-ЭКОНОМИЧЕСКИЕ МЕХАНИЗМЫ МОДЕРНИЗАЦИИ ЭЛЕКТРОЭНЕРГЕТИКИ УЗБЕКИСТАНА	330
Маърупова Дилсора Абдулла кизи	
AN ECONOMETRIC ASSESSMENT OF THE FACTORS INFLUENCING INTERNAL TRADE DEVELOPMENT IN THE REPUBLIC OF UZBEKISTAN	336
Oripova Gulira'no Nodirovna	
DESIGNING A SUSTAINABLE PENSION REFORM PATH FOR UZBEKISTAN: A COMPARATIVE INSTITUTIONAL APPROACH	342
Abdulazizova Nargiza Baxodir kizi	
FINANCIAL AND DIGITAL FACTORS OF INNOVATIVE OUTPUT IN UZBEKISTAN'S SOCIAL SECTOR: ECONOMETRIC EVIDENCE FOR 2007–2025	348
Kholmuratov Jakhongir Salimbek ugli	

PRIORITY DIRECTIONS FOR IMPROVING THE CORPORATE GOVERNANCE MECHANISMS OF CONSTRUCTION INDUSTRY ENTERPRISES UNDER DIGITAL TRANSFORMATION.....	355
G'iyosov Ilhom Karimovich	
MECHANISMS FOR ENSURING ALIGNMENT BETWEEN LABOUR MARKET DEMAND AND THE WORKFORCE TRAINING SYSTEM IN THE AGRICULTURAL SECTOR	362
Boltayev Nurali Shiramatovich	
ЭВОЛЮЦИЯ КОНЦЕПЦИЙ УСТОЙЧИВОГО РАЗВИТИЯ И ИХ ТРАНСФОРМАЦИЯ В ПРОМЫШЛЕННОЙ ПОЛИТИКЕ	370
Фозилова Фирангиза Комиловна	
MEASURING TOURISM SUSTAINABILITY IN KHOREZM REGION: A SUSTAINABLE TOURISM INDICATOR APPROACH	374
Zaripov Tokhirjon Yusufboy ugli	
THE ROLE OF ORGANIZATIONAL CAPABILITIES, DIGITALIZATION, AND GOVERNMENT SUPPORT IN ENHANCING EXPORT COMPETITIVENESS: EVIDENCE FROM SMES IN UZBEKISTAN	379
Rakhimboeva Begoyim	
APPROACHES TO OPTIMISING IMPORT CUSTOMS DUTY RATES IN THE CONTEXT OF ECONOMIC INTEGRATION	387
Sarmanov Orifjon Adiljonovich	
INTEGRATING INTERNAL AUDIT RESULTS INTO MANAGEMENT DECISIONS AND IMPROVING THE EFFECTIVENESS ASSESSMENT SYSTEM	394
Yuldashev Xurshidbek Mamirjonovich	
DIGITAL TRANSFORMATION AND ESG INTEGRATION IN SUSTAINABLE INDUSTRIAL DEVELOPMENT	401
Ismatulloeva Madinabonu Fozil qizi	
РОЛЬ СИСТЕМЫ КОРПОРАТИВНОГО РИСК-МЕНЕДЖМЕНТА В УПРАВЛЕНИИ АКЦИОНЕРНЫМИ ОБЩЕСТВАМИ	407
Назаров Баходир Бахтияр угли	
СТРУКТУРНЫЕ ВЗАИМОСВЯЗИ ФАКТОРОВ ЭКОНОМИЧЕСКОГО РОСТА УЗБЕКИСТАНА: КОРРЕЛЯЦИОННЫЙ И РСА-АНАЛИЗ	413
Хамраев Кувват Искандарович	
ECONOMIC MECHANISMS OF INVESTMENT ACTIVITY IN ENSURING THE COMPETITIVE DEVELOPMENT OF LIGHT INDUSTRY ENTERPRISES.....	418
Shokhista Davranovna Khaydarova	
ФИНАНСОВЫЕ ОТНОШЕНИЯ В СИСТЕМЕ ВЫСШЕГО ОБРАЗОВАНИЯ РАЗВИТЫХ СТРАН.....	426
Муртозаев С. О.	
THEORETICAL AND METHODOLOGICAL FOUNDATIONS OF THE INTERNAL AUDIT OF RECEIVABLES AND PAYABLES IN BUDGET ORGANIZATIONS.....	432
Abdulazizov Aziz Anvar ugli	
GREEN TRANSFORMATION AND SUSTAINABLE DEVELOPMENT OF KEY INDUSTRIES IN SURKHANDARYA REGION THROUGH RESOURCE EFFICIENCY	437
Erdanayev Bunyod Abdumalikovich	
THE EFFECT OF MOLDING-SAND MIXTURE PROPERTIES ON THE QUALITY OF FREIGHTWAGON SIDE-FRAME CASTINGS MADE OF GRADE 20GL STEEL	446
Chorshanbiyeva Lobar Turg'unboyevna	
Nuriddinov Otabek Shuxrat o'g'li	
Nuriddinov Samarddin Xusnuddin o'g'li	
Kenjayev Elshod Ravshan o'g'li	

ENHANCING THE ORGANIZATIONAL AND ECONOMIC MECHANISMS FOR SUSTAINABLE TOURISM DEVELOPMENT IN UZBEKISTAN.....	451
Muminova Mavjuda Sharifovna	
ASSESSING THE BUSINESS ENVIRONMENT IN UZBEKISTAN: A PESTEL ANALYSIS.....	461
Nabieva Nilufar	
THE IMPACT OF COMMERCIAL BANK LIABILITIES ON FINANCIAL EFFICIENCY IN UZBEKISTAN THROUGH FUNDING STRUCTURE LIQUIDITY AND INTEREST RATE RISK.....	466
Ziyodullayev Sodiqjon Mamadillaevich	
THE ROLE OF EXPORT DIVERSIFICATION IN ENSURING SUSTAINABLE ECONOMIC GROWTH IN UZBEKISTAN.....	476
Berdivaliyeva Madina	
ANALYSIS OF EXISTING MARKETING INSTRUMENTS FOR THE PROMOTION OF HIGHER EDUCATION SERVICES: STAGE REACH, COST-EFFICIENCY INVERSION, AND ABSORPTIVE CAPACITY CONSTRAINTS.....	483
Umarov Shuhrat Bahodir o'g'li	
IMPROVING THE HR SYSTEM AT PHARMACEUTICAL ENTERPRISES IN COMPLIANCE WITH GMP STANDARDS.....	494
Yunusova Nozima Mirkamalovna	
IMPROVING PUBLIC-PRIVATE PARTNERSHIP MECHANISMS IN THE REGIONAL SOCIO-ECONOMIC SYSTEM.....	499
Ataniyazova Maksuda Baltabayevna	
MEASURING DIGITAL TRANSFORMATION IN UZBEKISTAN'S INSURANCE MARKET: AN INTEGRATED SRTI APPROACH AND 2026-2030 SCENARIO PROJECTIONS.....	507
G'oziyeva Aziza Abdusalomovna	
ASSESSMENT OF PUBLIC-PRIVATE PARTNERSHIP DEVELOPMENT AND PROJECT DYNAMICS IN THE KHOREZM REGION.....	516
Ataniyazova Maksuda Baltabayevna	
FOREIGN EXPERIENCE OF EMERGING ECONOMIES IN USING NATIONAL DEVELOPMENT STRATEGIES TO ENHANCE INVESTMENT ATTRACTIVENESS.....	523
Otajonova Charosxon	
ИННОВАЦИОННЫЙ МЕНЕДЖМЕНТ СТРАХОВЫХ КОМПАНИЙ КАК ФАКТОР РАЗВИТИЯ СТРАХОВОГО РЫНКА	535
Мирахмедова Мафтуна Ибрагимовна	
ENHANCING TAX ADMINISTRATION AND CONTROL IN THE ERA OF DIGITAL TRANSFORMATION: THE CASE OF CRYPTOCURRENCY REGULATION IN UZBEKISTAN	543
Jurayev Ahmad Sayitnazar o'g'li	
PRODUCTION CAPACITY, LOCALISATION, AND DIVERSIFICATION PERFORMANCE IN UZBEKISTAN'S AUTOMOTIVE COMPONENT INDUSTRY: A COMPARATIVE ENTERPRISE-LEVEL ANALYSIS	549
Elyorbek Kandiyarovich Asadov	
ANALYSIS OF THE DEMOGRAPHIC AND SOCIO-ECONOMIC STATUS AND DEVELOPMENT TRENDS OF POPULATION AGEING IN THE REGION.....	559
Ochilova Nargiza Akramovna	
THE CONTRIBUTION OF MARKETING RESEARCH TO THE ASSESSMENT OF CUSTOMS SERVICE QUALITY.....	564
Ganiyeva Laylo Saliyjanovna	
THE ROLE OF DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE IN THE DEVELOPMENT OF THE METALLURGICAL INDUSTRY	572
Mamasodiqova Xojiraxon Ulug'bek qizi	

THE IMPORTANCE OF EFFICIENT POPULATION WELFARE MANAGEMENT IN POVERTY REDUCTION: EVIDENCE FROM BUKHARA REGION, UZBEKISTAN	580
Negmatullayeva Zarina Baxodirovna	
THEORETICAL FOUNDATIONS OF THE INTERDEPENDENCE BETWEEN HOUSEHOLD INCOME AND CONSUMPTION EXPENDITURE: A CONCEPTUAL SYNTHESIS WITH EVIDENCE FROM UZBEKISTAN	587
Farmonov Dilshod Po'latovich	
AN EXPORT SUPPLY CHAIN MATURITY INDEX FOR CORRIDOR-LEVEL DIAGNOSIS: EVIDENCE FROM A TEXTILE EXPORTER IN A LANDLOCKED ECONOMY	594
Mukhammadiyaminova Shakhzoda Sherzodovna	
ASSESSING THE IMPACT OF MACROECONOMIC FACTORS ON INCLUSIVE ECONOMIC GROWTH IN UZBEKISTAN: A THEORETICAL AND EMPIRICAL ANALYSIS	602
Rahimov Eshmurod Normuradovich	
THE IMPACT OF THE STOCK MARKET ON THE SUSTAINABLE DEVELOPMENT OF THE NATIONAL ECONOMY OF UZBEKISTAN	607
Mamataliev Bobur Saidnazar ugli	
AN ECONOMETRIC ASSESSMENT OF INDUSTRIAL SPATIAL DISTRIBUTION, DEVELOPMENT DYNAMICS, AND DIVERSIFICATION EFFICIENCY IN KASHKADARYA REGION	613
Rahmonova Tillaoy Malik qizi	
ANALYSIS OF THE ENVIRONMENTAL INDICATORS OF UZBEKNEFTEGAZ JSC FOR 2022–2025	620
Durdona Xolmurodova	
PUBLIC–PRIVATE PARTNERSHIP IN UZBEKISTAN’S WATER SUPPLY AND SANITATION SECTOR: FROM LEGAL FRAMEWORK TO IMPLEMENTATION PRACTICE.....	628
Sultanov Alisher Sabirjanovich	
Gulmamatova Durdona Sherali qizi	
MECHANISMS FOR IMPROVING THE WORKFORCE TRAINING SYSTEM IN LINE WITH LABOUR MARKET REQUIREMENTS.....	636
Rahmonova Mahsuda Numonovna	
PRODUCTION CAPACITY UTILISATION AND FINANCIAL PERFORMANCE: A COMPARATIVE STUDY OF TEXTILE ENTERPRISES IN UZBEKISTAN	642
Ergashev Abrorbek Raxmatulla o'g'li	
DEVELOPING MUDARABAH, MUSHARAKAH AND WAKALA-ISTITHMAR INSTRUMENTS IN UZBEKISTAN	648
Mirobidov Mirzohid Yaxyoyevich	
A MODEL FOR ASSESSING THE ECONOMIC EFFICIENCY OF INTRODUCING DIGITAL PLATFORMS.....	658
Nabiev Zafar Irkinovich	
ECONOMETRIC ASSESSMENT OF THE DETERMINANTS OF LABOR PRODUCTIVITY AND EMPLOYMENT DYNAMICS IN THE SERVICES SECTOR	664
Olimjon Narkulovich Djurayev	
DETERMINANTS OF AIR CARGO DEVELOPMENT AND THE SPACE FOR SMALL-BUSINESS ENTREPRENEURSHIP IN A DOUBLY LANDLOCKED TRANSITION ECONOMY: ECONOMETRIC EVIDENCE FROM UZBEKISTAN (2000–2025)	672
Anvarova Dilfuza Abdusattor qizi	
IMPROVING THE INTEGRAL METHOD FOR ASSESSING THE COMPETITIVENESS OF PRESCHOOL EDUCATIONAL ORGANIZATIONS	681
Madaminova Feruza Tursunboy qizi	

IMPROVING THE METHODOLOGICAL FOUNDATIONS FOR ASSESSING THE EFFICIENCY OF UTILISING THE INNOVATION POTENTIAL OF REGIONS.....	691
Ernazarova Nilufar Nozimjonovna	
IMPROVING THE MECHANISMS FOR RAISING THE QUALITY AND EFFECTIVENESS OF INTERNAL AUDIT IN BUDGET ORGANIZATIONS.....	697
Mulayev Farkhod Alisherovich	
THE ECONOMIC ESSENCE OF MANAGEMENT IN FOOD INDUSTRY ENTERPRISES: AN INTEGRATED VALUE-CREATION, SUPPLY-CHAIN AND DIGITAL MANAGEMENT PERSPECTIVE.....	702
Humoyun Mamatkulov	
RESERVE ADEQUACY UNDER GOLD CONCENTRATION: AN EFFECTIVE RESERVE BUFFER INDEX FOR COMMODITY-EXPORTING EMERGING ECONOMIES.....	708
Imamova Mukhabbat Volnazarovna	
MATCHED PENSION ACCOUNTS, PENSION-RELATED ASSETS, AND OLD-AGE INCOME INEQUALITY: A STRESS-TESTED SCENARIO MODEL OF PERSONAL RETIREMENT STRATEGIES IN UZBEKISTAN	715
Zokirova Gavhar Abdumannonovna	
ADVANCING TAX REFORM TO IMPROVE THE INVESTMENT CLIMATE IN UZBEKISTAN	723
Roza Khudaybergenova	
IMPROVING THE FUNCTIONING OF UZBEKISTAN'S TOURISM MARKET THROUGH THE USE OF INFORMATION TECHNOLOGIES: AN ECONOMETRIC AND STRATEGIC ANALYSIS	730
Khusanbek Avazbek ogli Nazarov	
A SEMI-MARKOV-HAWKES FRAMEWORK FOR MODELING SELF-ORGANIZING TRADING ACTIVITY.....	737
U. A. Abdullaev	
DEVELOPING TRANSFORMATIONAL LEADERSHIP IN HIGHER EDUCATION INSTITUTIONS: EVIDENCE-BASED DIRECTIONS FOR REGIONAL UNIVERSITIES IN KARAKALPAKSTAN AND KHOREZM	743
Reyimberdiyev Baburbek	
ECONOMETRIC ASSESSMENT AND FORECASTING OF THE ROLE OF INDUSTRIAL ZONES, TECHNOLOGY PARKS AND CLUSTERS IN REGIONAL ECONOMIC DEVELOPMENT IN KASHKADARYA REGION	751
Qarshiyev Obidjon Egamberdiyevich	
THE ASSURANCE MECHANISM FOR INTEGRATED REPORTING DATA.....	758
Abduvaliyev Zafar Mahmudovich	
CAPITAL DIGITALIZATION AND INNOVATION AS DRIVERS OF SMALL BUSINESS LABOR PRODUCTIVITY IN UZBEKISTAN	765
Gulshad Khojamuratovna Kaypnazarova	
STRUCTURAL TRANSFORMATION AND REGIONAL ENTREPRENEURIAL EFFICIENCY IN UZBEKISTAN: EVIDENCE FROM SECTORAL DYNAMICS AND PANEL DATA.....	770
Xaitova Rushana	
СИСТЕМА РАННЕГО ВЫЯВЛЕНИЯ ФИСКАЛЬНЫХ РИСКОВ ПРИ ОСУЩЕСТВЛЕНИИ ВНЕШНЕТОРГОВЫХ ОПЕРАЦИЙ: КОНЦЕПТУАЛЬНЫЕ ОСНОВЫ И МЕХАНИЗМЫ РЕАЛИЗАЦИИ	776
Рахмонов Дониёр Ихтиёржон угли	
ASSESSING FINANCIAL AND RESOURCE EFFICIENCY IN FISH-FARMING ENTERPRISES BASED ON GREEN ECONOMY PRINCIPLES.....	785
Fayziyev Oybek Raximovich	

THE IMPACT OF SERVICE NETWORKS ON REGIONAL ECONOMIC GROWTH IN BUKHARA REGION	791
Abdusalomova Farida	
COMPARATIVE ANALYSIS OF DEMOGRAPHIC PROCESSES IN CIS COUNTRIES	796
Siroj Zarina Rustambekovna	
INNOVATIVE FINANCING MECHANISMS FOR HOUSING AND COMMUNAL SERVICES PROJECTS AND THE ENHANCEMENT OF THEIR INVESTMENT ATTRACTIVENESS	803
Oybek Ravshanbek o'g'li Odamboyev	
СТАТИСТИЧЕСКИЙ АНАЛИЗ ДИНАМИКИ УРОВНЯ ЖИЗНИ НАСЕЛЕНИЯ	809
Махматкулова Хикоят Гиёсиддин кизи	
ISLAMIC FINANCE INSTRUMENTS FOR THE GREEN ECONOMY: GREEN SUKUK OPPORTUNITIES AND INSTITUTIONAL READINESS IN UZBEKISTAN	816
Obidjon To'ymuratovich Azimov	
TRANSPARENCY, SINGLE BIDDING, AND BUDGET SAVINGS IN PUBLIC PROCUREMENT: EVIDENCE FROM UZBEKISTAN	828
Sardorbek Akhmedjanov	
FROM AGRIBUSINESS TO AGRI-INDUSTRIAL BUSINESS: CONCEPTUAL TRANSFORMATION AND INTEGRATION MECHANISMS	834
Khudayberdiyev Furqat Imomnazar ugli	
AN ECONOMETRIC ASSESSMENT OF THE IMPACT OF REGIONAL INVESTMENT POLICY ON POVERTY REDUCTION	839
Nabiev Olimjon Abdusalomovich	
EVALUATING THE POTENTIAL OF DEVELOPING IT SERVICES OUTSOURCING TO SOLVE EMPLOYMENT PROBLEMS IN UZBEKISTAN	848
Nazarov Ziyovuddin Sharofiddinovich	
ОСОБЕННОСТИ РАСЧЕТА И АНАЛИЗА ПОКАЗАТЕЛЯ CIR В СООТВЕТСТВИИ С МЕЖДУНАРОДНЫМИ СТАНДАРТАМИ ФИНАНСОВОЙ ОТЧЕТНОСТИ В РЕСПУБЛИКЕ УЗБЕКИСТАН	854
Амир Худайкулов	
ANALYTICAL ASSESSMENT OF THE IMPACT OF STATE FINANCIAL CONTROL ON THE ACTIVITIES OF ACADEMIC LYCEUMS	860
Kariyev Maxmudjon Ganiyevich	
THE EVOLUTION OF FACTORS DETERMINING FINANCIAL STABILITY IN THE ERA OF DIGITAL ECONOMIC TRANSFORMATION	865
Usmanova Guljakhon Ulugbek kizi	

THE EVOLUTION OF FACTORS DETERMINING FINANCIAL STABILITY IN THE ERA OF DIGITAL ECONOMIC TRANSFORMATION

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Abstract. This article examines the historical evolution of the factors determining financial stability in the context of the digital economy and institutional transformation. It traces the transition from traditional macroeconomic and prudential factors to contemporary determinants, including fintech, artificial intelligence, big data, blockchain technologies, and cybersecurity. The article also examines the evolving role of central banks and financial supervisory authorities in the digitalisation process, considers relevant international experience, and discusses its practical implications for the Republic of Uzbekistan.

Keywords. digital economy, financial stability, fintech, cybersecurity, artificial intelligence, blockchain, prudential regulation, central bank, financial transformation.

Аннотация. В статье рассматривается историческая эволюция факторов, определяющих финансовую стабильность в условиях цифровой экономики и институциональной трансформации. Прослеживается переход от традиционных макроэкономических и пруденциальных факторов к современным детерминантам, включая финтех, искусственный интеллект, большие данные, блокчейн-технологии и кибербезопасность. Особое внимание уделяется трансформации роли центральных банков и органов финансового надзора в процессе цифровизации. Рассматривается соответствующий международный опыт и его практическое значение для Республики Узбекистан.

Ключевые слова. цифровая экономика, финансовая стабильность, финтех, кибербезопасность, искусственный интеллект, блокчейн, пруденциальное регулирование, центральный банк, финансовая трансформация.

INTRODUCTION

Over the past few decades, the global economy has undergone profound structural changes. The rapid development of information and communication technologies, the expansion of digital platforms, and the increasing technological sophistication of financial services have significantly transformed the traditional financial system. These developments in the banking and financial sector are reshaping not only the forms and channels of service delivery but also the range of factors that underpin financial stability.

Traditionally, financial stability has been assessed using a range of macroeconomic and prudential indicators, including the capitalisation and liquidity of the banking system, inflation dynamics, and fiscal conditions. In the era of digital transformation, however, the analytical framework has expanded to encompass additional dimensions, including the resilience of technological infrastructure, cybersecurity, data protection, algorithmic risks, and digital financial inclusion. Consequently, the assessment of financial stability has become increasingly complex and multidimensional. This broader interpretation is consistent with the understanding of financial stability as a dynamic condition in which the financial system remains capable of performing its essential functions, managing risks, and absorbing shocks.

The purpose of this article is to analyse the historical evolution of the factors determining financial stability, identify the emerging risks and opportunities associated with the development of the digital economy, and formulate practical conclusions with particular reference to the financial system of the Republic of Uzbekistan. The relevance of the research stems from the increasing importance of continuously adapting financial institutions and regulatory frameworks to the rapid pace of digital transformation. Such adaptation can contribute to strengthening the resilience of the financial system, improving the management of emerging risks, and supporting financial stability in an increasingly digitalised economic environment.

LITERATURE REVIEW

The theoretical foundations of financial stability research have been shaped by academic literature as well as by the analytical and regulatory work of international financial institutions and standard-setting bodies. In the IMF literature, financial stability is conceptualised not merely as a static condition but as a dynamic continuum reflecting the financial system's capacity to facilitate economic processes, manage financial risks, and absorb internal and external shocks.

Traditional approaches to assessing financial stability have focused on factors such as bank capital adequacy, asset quality, liquidity, interest-rate and exchange-rate dynamics, and broader macroeconomic and fiscal conditions. These factors have been assessed through microprudential and, increasingly, macroprudential frameworks. The Basel regulatory framework has played an important role in strengthening banking regulation, supervision, and risk management. In particular, Basel III, developed in response to the global financial crisis of 2007–2009, strengthened microprudential requirements while incorporating a macroprudential dimension, including capital buffers designed to enhance the resilience of the banking system.

The global financial crisis of 2007–2009 further highlighted the importance of complementing traditional indicators with a broader assessment of systemic vulnerabilities and interconnectedness within the financial system. The experience of the crisis reinforced attention to system-wide risks, interactions among financial institutions and markets, and the need for macroprudential approaches capable of considering risks extending beyond individual institutions. This contributed to the further development and practical application of systemic-risk analysis and macroprudential policy frameworks.

More recent research and regulatory developments have broadened the analysis of financial stability to incorporate technological, operational, and cyber-related dimensions. The increasing reliance of financial institutions on digital infrastructure, software, data, and third-party technology providers has made digital operational resilience an increasingly important component of financial-sector risk management. The European Union's Digital Operational Resilience Act (DORA), for example, establishes a harmonised framework for managing ICT-related risks across the financial sector and provides for oversight of critical third-party ICT service providers. These developments illustrate the growing importance of incorporating digital operational resilience and cybersecurity into contemporary analyses of financial stability.

RESEARCH METHODOLOGY

This study employs a qualitative, descriptive-analytical research design based on a systematic review and synthesis of academic literature, international regulatory reports, and official statistical and analytical materials published by the Central Bank of the Republic of Uzbekistan.

The historical-evolutionary method is used to trace the development of factors affecting financial stability across three distinct stages: the traditional prudential stage, the systemic and macroprudential stage that developed in response to the global financial crisis of 2007–2009, and the current stage of digital transformation.

Comparative analysis is applied to examine international experience in the European Union, selected Asian countries, particularly China and South Korea, and the United States in order to identify common patterns and country-specific approaches to incorporating technological factors into financial-stability regulation.

Finally, a case-study approach focusing on the Republic of Uzbekistan is used to relate the theoretical and comparative findings to practical recommendations relevant to the national financial system. The combination of these methods provides a comprehensive and multidimensional framework for assessing the evolution of factors affecting financial stability and their implications for contemporary regulatory practice.

ANALYSIS AND RESULTS

The digital economy can be understood as an economic environment in which information and communication technologies, data, and digital platforms play an increasingly important role in the creation and exchange of value. In the financial sector, this transformation is reflected in the development of fintech companies, mobile banking services, electronic payment systems, digital currencies, and the increasing use of credit-scoring algorithms.

Digital transformation has expanded opportunities for access to financial services, thereby supporting financial inclusion. At the same time, it has introduced additional categories of risk that need to be incorporated into financial-stability analysis. These include technological disruptions, interconnected-system dependencies, the continuing development of regulatory and supervisory frameworks for fintech activities, and changes in the competitive structure of financial markets. International financial institutions similarly identify cyber risk, third-party dependencies, service-provider concentration, and technology-related vulnerabilities as increasingly relevant considerations for financial stability.

Furthermore, the global expansion of digital platforms and financial technologies has strengthened cross-border financial interconnectedness, increasing the importance of considering channels through which financial and operational disruptions may be transmitted across jurisdictions. Consequently, contemporary financial-stability analysis increasingly requires consideration of national, regional, and global dimensions.

First stage — traditional prudential factors. At this stage, financial stability was primarily associated with the soundness and resilience of individual financial institutions, particularly banks. Capital adequacy, liquidity indicators, asset quality, including the share of non-performing loans, and profitability were among the principal indicators used in prudential assessment. The development of international banking regulation during this period was significantly influenced by the Basel I and Basel II frameworks.

Second stage — systemic and macroprudential approach. Following the global financial crisis of 2007–2009, greater attention was given to the interconnectedness of financial institutions, systemically important banks, procyclicality, and system-wide vulnerabilities. Basel III subsequently strengthened the prudential framework by introducing and refining a range of measures, including capital buffers and new liquidity standards. The Liquidity Coverage Ratio (LCR) was designed to strengthen banks' short-term resilience to liquidity stress, while the Net Stable Funding Ratio (NSFR) promotes a more stable funding profile in relation to banks' assets and off-balance-sheet activities. During this stage, financial-stability analysis increasingly expanded from the resilience of individual institutions to the resilience of the financial system as a whole.

Third stage — digital transformation and technological factors. Over the past decade, technological and operational considerations have become increasingly important components of financial-stability analysis. These include cybersecurity and the resilience of information infrastructure; model and algorithmic risks associated with artificial intelligence and machine learning; data quality and governance in data-driven credit-risk assessment; risks associated with digital assets and distributed-ledger technologies; interactions between fintech companies and traditional financial institutions; and operational dependencies on cloud-computing infrastructure and third-party technology providers. The FSB specifically identifies third-party dependencies and service-provider concentration, market correlations, cyber risk, and model risk, data quality, and governance as important AI-related vulnerabilities with potential financial-stability implications.

At this stage, supporting financial stability increasingly requires a combination of financial, technological, data-governance, and cybersecurity expertise. Accordingly, financial regulatory and supervisory authorities are progressively incorporating issues such as data governance, model transparency, operational resilience, and critical third-party dependencies into their supervisory and risk-monitoring frameworks.

The risks relevant to financial stability in the digital economy can be grouped into several interconnected categories. First, cybersecurity risks include cyberattacks on banking and financial systems, data breaches, and distributed denial-of-service (DDoS) attacks, all of which can affect the operational resilience of financial institutions. As financial institutions become increasingly dependent on shared digital infrastructure, cyber incidents may also have broader implications when disruptions spread across interconnected institutions and common technologies.

Second, algorithmic and model risks arise from the growing use of artificial intelligence and machine-learning systems in financial decision-making. Data-quality limitations, model errors, governance challenges, and correlated use of similar models can influence credit assessment, investment decisions, and broader financial-market dynamics. At the same time, well-governed AI can provide significant benefits, including enhanced data analysis, operational efficiency, regulatory compliance, and more personalised financial services.

Third, digital-asset-related risks may become increasingly relevant as interactions between digital-asset markets and traditional financial institutions develop. Volatility, interconnectedness, and potential transmission channels therefore warrant continued monitoring as part of a broader financial-stability framework.

Fourth, the evolving regulatory environment for fintech requires supervisory and regulatory frameworks to continue adapting to new business models, technologies, and forms of financial intermediation. Rather than describing these developments as "shadow digital finance", it is more analytically precise to recognise that some emerging activities may not fit neatly within regulatory frameworks originally designed for traditional financial institutions. This creates opportunities for the further development of proportionate, technology-responsive supervisory approaches. The FSB has similarly identified supervisory and regulatory issues arising from fintech development as areas requiring continued attention.

Fifth, operational concentration risk may arise when multiple financial institutions depend on a relatively limited number of critical cloud-computing or other third-party technology providers. Such concentration can create common dependencies and potential single points of failure. However, cloud services can also improve scalability, flexibility, and institutional resilience; therefore, the relevant issue is the effective management of concentration, governance, and operational-resilience risks rather than the use of cloud technologies itself.

Sixth, digital-inclusion considerations are becoming increasingly relevant as financial services move towards digital channels. Differences in digital skills, technological access, and the ability to use digital

financial services can affect the extent to which different population groups benefit from financial innovation. Strengthening digital financial literacy and accessibility can therefore support broader and more inclusive participation in the financial system.

In the context of digital transformation, the responsibilities of central banks and financial supervisory authorities are becoming increasingly diverse. Alongside their traditional monetary policy, prudential regulation, and supervisory functions, regulatory authorities are paying greater attention to the resilience of digital financial infrastructure, the development and supervision of fintech activities, data governance and protection, cybersecurity, and operational resilience.

Many jurisdictions are increasingly adopting RegTech (regulatory technology) and SupTech (supervisory technology) solutions to enhance the collection, processing, and analysis of regulatory and supervisory data. These technologies can support more timely monitoring of financial activities, facilitate anomaly detection, and strengthen the early identification and assessment of emerging risks. In parallel, central banks continue to research and experiment with Central Bank Digital Currencies (CBDCs), reflecting the broader transformation of payment systems and central bank money in an increasingly digital financial environment. According to the BIS 2024 survey, 85 of the 93 central banks surveyed were exploring a retail CBDC, a wholesale CBDC, or both, although the objectives and stages of development varied considerably across jurisdictions.

The use of regulatory sandboxes for testing innovative financial products and services under controlled conditions is also becoming increasingly established. Such mechanisms can facilitate innovation while enabling regulatory authorities to identify, assess, and manage potential risks before new products or business models are introduced on a broader scale.

International experience demonstrates the growing importance of integrating technological and operational considerations into financial regulatory and supervisory frameworks. In the European Union, a harmonised framework for digital operational resilience has been established to strengthen the capacity of financial institutions to manage risks associated with information and communication technologies.

In Asian economies, including China and South Korea, the expansion of digital and mobile financial services illustrates the potential of technological innovation to broaden access to financial services. At the same time, the increasing role of large technology companies in financial markets has highlighted the importance of proportionate regulatory and supervisory approaches that take account of new business models, market structures, data governance, and operational risks.

In the United States, fintech development has been supported by a market-oriented innovation environment alongside regulatory and supervisory arrangements operating at both federal and state levels. The diversity of institutional approaches across jurisdictions demonstrates that there is no single model for regulating digital financial transformation.

Overall, international experience suggests that an important policy objective is to maintain an appropriate balance between technological innovation and financial stability. This involves developing regulatory frameworks capable of identifying and managing emerging systemic and operational risks while preserving an enabling environment for responsible financial innovation.

In recent years, the Republic of Uzbekistan has continued to advance the digital transformation of its financial sector. The development of payment infrastructure, remote banking services, digital identification mechanisms, and financial technologies represents an important component of this process. Central Bank data demonstrate the extensive use and continued development of remote banking services, while its reporting also documents the expansion of digital identification technologies in banks and payment organisations.

The institutional framework for financial technologies is also developing further. The Central Bank has a dedicated Department of Financial Technology Development whose functions include participation in fintech-related legislative initiatives, coordination with fintech companies, payment organisations and banks, preparation of analytical proposals, and coordination of the regulatory sandbox. The regulatory sandbox provides a special legal regime in which financial-technology market participants can test innovative financial products and services under controlled conditions.

At the same time, several areas remain important for the further strengthening of financial stability in the context of digital transformation. These include enhancing cybersecurity and operational resilience, continuing the development of an appropriate legal and supervisory framework for fintech activities, strengthening digital financial literacy among individuals and entrepreneurs, and expanding opportunities for inclusive access to digital financial services, including for small and medium-sized enterprises.

Furthermore, as Uzbekistan's financial system becomes increasingly connected with global digital financial markets and infrastructure, continued attention to resilience against external shocks, currency-risk management, and the integration of advanced digital analytical tools into macroprudential supervision can further strengthen the national financial system. In this context, cooperation with international financial

institutions and the appropriate adaptation of recognised international standards to national conditions can support the continued development of regulatory and supervisory capacity.

Recent institutional developments further reinforce this direction. The Central Bank's National Strategy for the Development of Financial Technologies for 2026–2030 identifies priorities related to strengthening digital financial infrastructure, attracting investment, developing human resources, and supporting the fintech ecosystem.

CONCLUSION AND RECOMMENDATIONS

The analysis indicates that the range of factors relevant to financial stability has become increasingly diverse and multidimensional over time. While traditional macroeconomic and prudential indicators continue to play a fundamental role, they are increasingly complemented by technological, operational, cybersecurity, data-governance, and digital-inclusion considerations. These developments highlight the importance of an integrated and multidisciplinary approach to analysing and supporting financial stability.

Based on the analysis, the following recommendations are proposed:

1. Strengthening specialised technological-risk expertise. Financial supervisory authorities may further develop specialised institutional capacity for identifying and assessing technological, cyber, operational, and model-related risks.

2. Expanding the application of RegTech and SupTech. The progressive integration of RegTech and SupTech solutions into supervisory practice can improve data processing, risk identification, and the timeliness of supervisory analysis.

3. Further developing the regulatory framework for fintech. Clear, proportionate, and adaptable regulatory provisions can support the sustainable development of fintech activities while facilitating effective risk management and responsible innovation.

4. Enhancing cybersecurity and data-protection frameworks. Continued alignment with recognised international principles and standards can strengthen the resilience of financial institutions and the protection of financial data.

5. Promoting digital financial literacy. Continuous educational and awareness programmes for individuals and entrepreneurs can support informed participation in digital financial services and contribute to broader financial inclusion.

Supporting financial stability in the era of digital transformation requires more than technological modernisation alone. It calls for a comprehensive approach that combines technological development with effective institutions, proportionate regulatory frameworks, cybersecurity and operational resilience, and the continued development of human capital. Such an approach can contribute to the long-term resilience, adaptability, and competitiveness of the financial system.

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