

CONTENTS

Nano Technologies and Computer Modelling

| | | |
|---|--|----|
| Gopejenko A, Zhukovskii Yu F, Mastrikov Yu A, Kotomin E A, Piskunov S, Vladimirov P V | First Principles Simulations on Yttrium, Oxygen, and Titanium Precipitation inside fcc-Fe Lattice | 9 |
| Gruodis A | Hole-Transporting Materials for solar cells. Quantum chemistry study | 11 |
| Kozmina Ye, Gruodis A | QUATTRO-20: advanced tool for estimation of the recurrent sequences | 13 |
| Myhal R, Gopejenko V | Development of a mobile application for placing objects in augmented reality | 15 |
| Pucins A, Gopejenko V | Implementation of a network printers monitoring system in enterprise "BelieveIT" | 16 |
| Rudoj S, Mrochko A | Continuous integration and delivery | 17 |
| Muhamedyev R, Yakunin K, Kuchin Y, Symagulov A, Murzakhmetov S, Abdurazakov A | The use machine learning interpreter for the development of decision support system | 19 |
| Muhamedyev R, Yakunin K, Kuchin Y, Symagulov A, Murzakhmetov S, Ospanova M, Assanov I, Yelis M | Intelligent unmanned aerial vehicle technologies | 21 |
| Muhamedyev R I, Makhambetali T K | Trend analysis of scientometric indicators | 23 |
| Demianchuk Mi, Khotunov V | Development of an automatic registry of errors and queries in a large enterprise | 27 |
| Demianchuk My, Khotunov V | Upgrading the network infrastructure for an organization | 28 |
| Barakhnin V, Kozhemyakina O, Pastushkov I | The usage of the word order change algorithm for the identification of emotionally charged texts in Russian | 30 |
| Korniienko P, Khotunov V, Babics I | SEO - Oriented Bulk WEB Parser | 33 |
| Ter-Karapetyants T | Test automation of web-applications developed on Sitecore Content Management System | 35 |
| Zhumabayev A, Muhamedyev R | Fraud detection approaches in ecommerce | 37 |
| Khaitov Sh | Application for forecasting sport events | 39 |
| Udod M, Khotunov V | Electronic journal of student performance in the discipline | 41 |
| Butkevich E, Khotunov V | Development of an online store selling books | 43 |
| Abdykalykova A E | Credit scoring using machine learning algorithms | 45 |
| Zaurbek A, Amantay D, Dzhuruntaev D Z | Digital pseudo random pulse train hardware generator | 47 |
| Maksat B | Research and development of forecasting models for the activities of oil industry entities | 50 |
| Danko A | The study of methods of data mining in the field of bank marketing | 53 |

| | | |
|--|---|----|
| Ibragimova M | Micro and nanoelectronics | 57 |
| Yakunin K, Murzakhmetov S | Dynamic topic modelling | 58 |
| Jangabylova A | Automatic texts similarity metric for large datasets | 59 |
| Kanatova A | The use of vector quantization as a decomposition method for the restoration of the image of faces | 60 |
| Kapan A | Image reconstruction by gradually increasing the number of principal components | 61 |
| Khomidova M | Information systems for business | 62 |
| Kiseleva S, Lisitskaya N, Frid S | Photovoltaic power forecasting | 63 |
| Kuchin Ya , Muhamedyev R, Yakunin K, Symagulov A | Some possible directions of improving quality of logging data interpretation using machine learning | 65 |
| Kussainov Ch, Kamash K | Investment project analysis under conditions of uncertainty | 67 |
| Shukaev D, Kussainov Ch | Multi-criteria analysis of investment projects based on the ranking method | 69 |
| Mokhurenko Y, Khotunov V | Development of the network game "Who am I" | 71 |
| Mussabayev R, Kozbagarov O | Word Sense Induction: Similarity measure to induce word senses | 73 |
| Nikolskiy V, Khotunov V | Creation of a WEB-application for searching a vehicle for cargo transportation | 74 |
| Patel N | Fifth generation Technology Transformation and insurgency | 76 |
| Rudenko V, Khotunov V | Design and development of the «Bulletin Board» website | 79 |
| Rudikevich O, PhD Khotunov V | Analysis of the quality of video transmission in Wi-Fi networks depending on the algorithm used packet queue management | 80 |
| Tashbayeva A A | Text mining of news articles for prediction oil stock price | 82 |
| Tokarskiy A | Application for controlling public transport in town | 84 |
| Yelis M, M Ospanova M | Image processing for detection and geolocation of objects using UAV | 85 |
| Muhamedyev R, Yelis M, Zagulova D | The economic impact of intelligent technologies in health care | 86 |

Business Administration, Economics and Education

| | | |
|---|---|----|
| Dehtjare J, Djakona V, Riashchenko V, Liepa E, Berzina I, Germane I | Possibilities of improving the effectiveness of managing intellectual capital of ISMA HEI | 88 |
| Amirkhanian M, Mrochko A | Issues and methods of quantitative and qualitative data analytics for business operations optimization | 90 |
| Amirkhanian M | Performance criteria for effective usage of the current volatility indicator in predictive modelling of price dynamics in financial markets | 92 |
| Koptseva E, Linde I | Improving the structure of branch management of a commercial bank | 94 |
| Korol V, Riashchenko V, | Global trends in the development of the restaurant equipment | 95 |

| | | |
|---|---|-----|
| Kuznetsova N | market and their impact on the trading companies marketing policy | |
| Koryuhina C | Emotional labour in higher educational institutions | 97 |
| Matskiv V, Riashchenko V, Kuznetsova N | Communication tools for brand promotion in the online environment | 100 |
| Philippov D, Linde I | Accelerate statistical process improvement methods using process mining | 102 |
| Pilege E | The impact of information technology development on the business environment of creative industries | 104 |
| Riashchenko V, Caiko J, Markina I, Bezpartochnyi M | Improving the training system for the digital economy | 106 |
| Platacs S, Riashchenko V | Competitiveness level increase of SIA "Avk Grupa" | 108 |
| Matjakubovs D | Improve enterprise efficiency by implementing the Physical Access Control System (PACS) | 110 |
| Miscenko S | Social entrepreneurship in education area through the charity education of teenagers with special needs | 112 |
| Zhivitere M, Oborenko Z | The equal rights of disabled people to employment: issues in Latvia | 114 |
| Spica I, Berzina B, Spics E | Customer management mechanism on e-business environment | 116 |
| Zhuk A, Lukyanova E | Alfa Bank competitiveness assessment and ways to improve it | 117 |
| Riashchenko V, Zozule O | Finding the recipe to success in the chocolate industry | 119 |
| Pohoretska I, Oborenko Z | Marketing communication strategy of insurance companies and ways to improve it | 121 |
| Grinchuk M, Lischenko O | Features of financial stability management of a commercial bank: theoretical and practical aspects | 123 |
| Kopitov R, Movchan A | Factors of influence on competitiveness of the enterprise | 125 |
| Udod A, Lukjanova E | Innovative approach to the formation of assortment policy of small and medium-sized businesses in the service sector | 126 |
| Pustoviit R | The peculiarities of the institutional environment for entrepreneurship in Ukraine | 128 |
| Nazarenko N | Change in motivation of economic activity in the light of economic and non-economic motives | 129 |
| Sventitskaya E, Kochetkov Yu | Risks in the operation of micro and small enterprises in Latvia | 131 |
| Pluzhnyk A | Sustainable development cities imperatives in the 21 st century global challenges system (security aspect) | 133 |
| Qoqiauri L, Gechbaia B, Qoqiauri N | Theoretical aspects of the innovation ecosystem | 135 |
| Hryshko V | Knowledge management in Ukraine: intangible assets | 136 |
| Tytarenko L M | Telecommunication services in the world information system | 138 |
| Nurakynova S | Pandemic COVID-2019: Distance learning in Universities in Kazakhstan | 140 |
| Hmelnicka E | International trade and specialization in Latvia | 142 |

| | | |
|--|---|-----|
| Khudaykulov A, Khudaykulov F | Innovative perspectives of public-private partnerships in Uzbekistan | 143 |
| Vazha V | Cost of production and inflation in Latvia | 147 |
| Onyshchenko S V | Foreign experience of providing socio-economic security of the region | 148 |
| Onyshchenko V, Sivitska S | Coronavirus pandemic crisis impact on startups and technologies | 150 |
| Khmil A | Role-based design model for educational multimedia complex | 152 |
| Novytska I | Formation of the organic product brand in Ukraine | 155 |
| Veriga J, Dmytrenko A | The role of financial control as a system of effective governance by joint activities | 156 |
| Odinokova T, Bondarenko T, Rudenko A | Improving the competitiveness of sugar production in Ukraine | 159 |
| Kozyk M | Methods of non-material motivation to stimulate and inspire staff | 161 |
| Glebova A | The practice of implementing the concept of continuous improvement at the enterprise | 163 |
| Teshabaeva O N, Akramxonova M R Q | Development of digital (informatized) economy at the enterprises of the republic | 165 |
| Zerniuk O | SMM-marketing – a modern marketing development tool | 168 |
| Glushko A | Institutional and legal support for information security of the national economy | 170 |
| Maslii O | Risks to the economic security of the region from the implementation of budget decentralization | 172 |
| Hmyria V, Shevchuk N V | Qualimetry of financial risks in enterprise activities | 174 |
| Chychkalo-Kondratska I | Tools for "green" technology implementation in small and medium enterprises of foreign countries | 176 |
| Skryl V | The level of financial inclusion of the Poltava region | 178 |
| Teshabaeva O N, Nazarova L T Q | Technological bases of creation of interactive electronic training courses | 180 |
| Gaybullaeva G M, Teshabaeva O N | Role of information systems on tourism development in Uzbekistan | 182 |
| Sufiev R A, Zaylobidinov S U U | Development of family entrepreneurship as a factor of increasing population employment | 184 |
| Panchenko H, Oborenko Z | Formation of effective marketing activity of OAO "Zolotonosha oil-processing plant" in conditions of market competition | 186 |
| Gechbaia B, Mushkudiani Z, Golefiani K | Personal management's complex-economic research in modern business | 188 |

Tourism and Logistics

| | | |
|------------------------------------|---|-----|
| Bukata T, Kuznetsova N, Dehtjare J | Features of the formation of communication policy in the food industry | 189 |
| Kovaleva A, Dehtjare J | Improvement of the system of motivation and stimulation of personnel in tourism enterprises | 191 |

| | | |
|--------------------------|---|-----|
| Chernysh I | The processes of population migration | 193 |
| Bakalo N V | Features of business processes of tourism enterprises | 195 |
| Boiko V, Nedilko A | Problem aspects of the tourist activity in the Poltava region | 197 |
| Chelembiienko K | Ecological entrepreneurship in tourism | 199 |
| Dubischev V, Kobets S | State governance of land relations | 201 |
| Barabash P | Peculiarities of the hotel business formation in the condition of globalization | 203 |
| Ahunova O E | The impact of tourism development on the development of Uzbekistan | 204 |
| Dushime I | Theoretical and instrumental principles of the impact of migration on sustainable development of the country | 206 |
| Makhovka V | Virtual tourism as one of the directions of development of the world tourism in modern conditions | 208 |
| Golubkova T, Širjajeva L | The digital marketing structure of SMEs in tourism as an element of sustainable development of regional economy | 209 |
| Bilousova A | Behaviour of a tourism enterprise during a crisis | 211 |
| Ohunov A R U | Priorities for development of tourism in Uzbekistan | 212 |

Problems of the Control Algorithms Maintenance

| | | |
|---|--|-----|
| Akimov G, Amangeldyiev A, Djakons R, Kopitov R, Mikryukova Zh | Methodology technique of destructive experience | 214 |
| Santhirasegaram E | Maintenance of sustainable entrepreneurship: disclosing the meaning of the concept of "Entrepreneurship" | 216 |
| Anisimenko M, Kelsina D, Kopitov R | Maintenance of business design management system | 217 |
| Akhrorov R | Features of authentic organizations | 218 |
| Grigorjeva M, Kopitov R, Mammadli Z | Adapted pricing mechanism | 219 |
| Amangeldyiev A, Karajevs V, Sitnikovs P, Uglanovs V | Drucker paradox in comprehension of systemic convictions of a concept | 220 |
| Iskandarov A | Research of mechanisms to overcome obstacles | 221 |
| Kot M | The role of financial stability of enterprises in the context of the impending global economic crisis | 222 |
| Lozova Yu | The features of the competitive advantages formation in the agricultural enterprises | 223 |
| Herold I | Investigation of key factors in the strategy formation in the context of integration | 225 |
| Kelsina D | Discovering the problem of the WOS effect | 227 |
| Kazina I | Control based self-adapting algorithms | 228 |
| Djakons R, Kamforina O, Kelsina D, Kopitov R | Usage of the hidden feature of the DIKW model for determining the object of functioning | 229 |