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	TABLE OF CONTENTS	P.
Tetiana Vasylieva, Iryna Didenko, Vladyslav Smiianov, Soldatenko Darina	INFLUENCING THE FACTORS OF COMMUNITY HEALTH INTO THE DIFFERENTIATION OF REGIONS OF UKRAINE FOR BECOMING ILL ON COVID 19	13
Tetyana Vasilyeva, Serhiy Lieonov, Nataliia Letunovska	THE ECONOMIC IMPACT OF COVID-19: FORECASTING FOR UKRAINIAN REGIONS	18
Yuriy Petrushenko, Natalia Zemliak, Sofia Petrenko	THE IMPACT OF EDUCATION ON MIGRATION	23
Serhiy Lyeonov, Aleksy Kwilinski, Denys Pudryk, Shaforost Yuliya	INTERNATIONAL MIGRATION AND DEMOGRAPHIC CHANGE: BIBLIOMETRIC ANALYZING AMONG RESEARCHERS USING SCOPUS AND GOOGLE SCHOLAR	27
Iryna Dehtyarova, Leonid Melnyk, Oleksandr Kubatko,	SOCIO-ECONOMIC EFFECTS OF DISRUPTIVE TECHNOLOGIES	34
Oleksandr Kubatko, Iryna Sotnyk, Alona Olondar	ESTIMATION OF THE CORONAVIRUS CRISIS IMPACT ON THE ENERGY AND ECONOMIC SECURITY OF THE NATIONAL ECONOMY	42
Oleksandra Karintseva, Oleksii Goncharenko, Mariia Myslovskaya, Oksana Hrinevich	ASSESSMENT OF CONSEQUENCES OF THE VIRTUAL REALITY ECO-TOURS ADVANCING IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT AND THE COVID-19 PANDEMIC	50

Viktor Sabadash, Oleksandra Karintseva, Mykola Kharchenko, Viktoriia Sabadash	ACCESS AND RESOURCE ALLOCATION IN THE GLOBAL ECONOMY: CHALLENGES OF POST-INDUSTRIAL SOCIETY	61
Shaparenko S.	SOCIO-ECONOMIC PRECONDITIONS FOR THE DEVELOPMENT OF ENERGY NETWORKS	69
Bilan A.	BLOGGER IS A MODERN PROFESSION	77
Ancibor T.	OPENING YOUR OWN HAIRDRESSING SALON AS A BUSINESS	84
Vorobyouv I.	OPENING YOUR OWN FARM-STYLE CAFE	92
Bondarenko Alla, Piven V.S.	ADVANTAGES AND DRAWBACKS OF SALES PROMOTION OF GOODS	100
Maksym Kirilenko, MU Jianming	PROBLEMS OF IMPLEMENTATION OF INDUSTRY 4.0 IN UKRAINE	106
Leonid Taraniuk, Hongzhou Qiu, Karina Taraniuk, Serafima Shakhova, Samuel Bot	ANALYSIS ON APPLICATION AND CONTRIBUTION OF INTERNET OF THINGS TO LOGISTICS ENTERPRISES IN THE CONTEXT OF GLOBALIZATION	114
Vitaliia Koibichuk, Serhii Drozd	PREDICTIVE ANALYSIS OF TRENDS IN THE TOURISM INDUSTRY IN TERMS OF EU COUNTRIES	118
Iryna D'yakonova, Leonid Taraniuk, Yuri Petrushenko, Anastasiya Shebeda	FORMAL AND INFORMAL APPROACHES TO RELATIONS CENTRAL BANK OF THE COUNTIES WITH THEIR GOVERNMENT	125

Bhola Khan	THE IMPACT OF THE SECOND NATIONAL FADAMA DEVELOPMENT PROJECT ON POVERTY REDUCTION IN THE GEIDAM LOCAL GOVERNMENT OF YOBE STATE, NIGERIA	129
Olha Kuzmenko, Tatiana Dotsenko	FRONTIER ANALYSIS OF THE BANKS' FINANCIAL MONITORING EFFICIENCY CONCERNING ASSESSING THE RISKS OF MONEY LAUNDERING	134
Ponomarenko Ihor, MU Jianming	FUTURE LOGISTIC'S TECHNOLOGOIES IN CONTEXT OF INDUSTRY 4.0	138
Kateryna Zaiika, Oksana Zamora, Iryna D'yakonova	INTERNATIONAL ECONOMIC TRENDS DURING PANDEMICS: FROM PLAGUE TO CORONAVIRUS	145
Olexii Karpishchenko, Tetiana Illiashenko, Kostiantyn Illiashenko, Olexandr Tovstukha	DIGITIZATION OF THE HOUSING SERVICES AS A TOOL FOR ENSURING SUSTAINABLE DEVELOPMENT OF SETTLEMENTS	150
Tetyana Vasilyeva, Kuzmenko Olha, Kashcha M. Basanets Sofiia	ECONOMIC AND MATHEMATICAL MODELING REASONS FOR DIFFERENTIATED DEVELOPMENT OF PANDEMIC IN UKRAINE	154
Olena Boiko	TAXATION IN LIFE INSURANCE SYSTEM	158
Svitlana Ivanytska, Zatona Kateryna	PECULIARITIES OF THE ORGANIZATION OF PAYMENT AT THE ENTERPRISE	163
Oleksandr Zaitsev	INTERACTION OF FINANCIAL DEVELOPMENT AND REAL ECONOMY	167

Olha Kuzmenko, Tetyana Vasilyeva Yana Harbar, Aleksy Kwilinski Viktoriia Radko	OPTIMIZATION OF THE SYSTEM AND MECHANISM OF REGULATION OF FINANCIAL MONITORING OF INSURANCE COMPANIES	172
Serhii Mynenko, Vitaliia Koibichuk	THE BLOCKCHAIN TECHNOLOGIES IN PUBLIC ADMINISTRATION	176
Chortok Yuliia, Nechyporenko Roman, Yaskevich Anastasiya	SMART TRANSPORT AND LOGISTICS ENVIRONMENT	184
Iryna Marekha, Tetiana Makarenko	WORLD MODELS FOR ASSESING THE EFFECTIVENESS OF ENVIRONMENTAL TAXES	189
Serhii Lyeonov, Serhii Mynenko, Olha Kuzmenko, Oleksii Lyulyov, Kateryna Hrek	THE RISK OF MONEY LAUNDERING: OVERVIEW THROUGH THE OPERATIONS OF INSURANCE COMPANIES	193
Olena Bilotserkivska, Viktoriia Shcherbachenko	BRAIN DRAIN FROM UKRAINE: HOW TO SLOW DOWN AND BREAK THIS TENDENCY IN THE CONTEXT OF KNOWLEDGE ECONOMY	199
Olena Pavlenko, Ihor Maksymenko, Oleksii Shkulipa	INFLUENCE OF BUSINESS PROCESSES ON REGIONAL INFRASTRUCTURE	204
Olha Kuzmenko, Volodymyr Ovcharenko	METHODS REVIEW FOR ASSESSING THE INVESTMENT ATTRACTIVENESS OF INNOVATIVE BANK TECHNOLOGIES	209

Anastasiia Yurchenko, Viktoriia Shcherbachenko	ACTUAL PROBLEMS OF THE ECONOMY AND SOCIETY GREENING	214
Dymchenko Olena, Rudachenko Olha	STATE REGULATION OF SOCIO-ECONOMIC DEVELOPMENT OF REGIONS	219
Bozhenko Victoria, Petrova Ksenia	MODELING THE TRANSMISSION OF SYSTEMIC FINANCIAL RISK TO THE DEVELOPMENT OF THE ECONOMY'S REAL SECTOR	223
Vladyslav Shapoval, Mariia Troian	THE IMPACT OF GLOBALIZATION ON COMMUNICATION	227
Halyna Mishenina, Daria Pavlenko	AGILE METHODOLOGY OF THE PUBLIC ADMINISTRATION SYSTEM IN THE CONTEXT OF DIGITAL TRANSFORMATION OF UKRAINE	232
Ved Prakash	MEASUREMENT OF POVERTY AND SOCIO- ECONOMIC REQUIREMENTS OF BPL IN INDIA	237
Tetiana Kurbatova, Valeriia Vialkova	ANALYSIS OF INTERNATIONAL CONFLICTS: ANALYTICAL ELEMENTS AND TOOLS	243
Ahniia Havrylina	FEATURES OF NON-TRADITIONAL TYPES OF INVESTMENT	246
Pokhylko S., Eremenko A.	USING SOCIAL MEDIA PLATFORMS TO CREATE AND DEVELOP BUSINESS PROJECTS	249
Pavlo Hrytsenko, Yevhen Kovalenko, Vladyslav Popov	INNOVATIVE ACTIVITY AS A BASIS FOR SUSTAINABLE ECONOMIC GROWTH	254

Leonid Melnyk, Olena Matsenko, Vladyslav Piven	SOCIO-ECONOMIC ASPECTS OF GREEN ENERGY DEVELOPMENT: THE EXPERIENCE OF THE EU AND UKRAINE	264
Harchenko D.	ECONOMIC SECURITY AND THE FIGHT AGAINST CORRUPTION	273
Hanna Yarovenko, Olena Kolotilina	DEVELOPMENT OF METHODOLOGY FOR ASSESSING THE RISKS OF SOCIO- ECONOMIC AND POLITICAL GROWTH OF UKRAINE	285
Inessa Yarova	ENVIRONMENTAL ASPECTS OF INTERNATIONAL TRADE RELATIONS	289
Denys Smolennikov, Daria Pavlenko	STAKEHOLDER APPROACH TO PROJECT MANAGEMENT	293
Oleksandr Khadartsev	MODERN ENTREPRENEURSHIP ON THE PROJECT MANAGEMENT PRINCIPLES	297
Hanna Yarovenko, Victoria Kovach	GLOBAL TENDENCIES FOR THE IT USE IN MANAGEMENT INFORMATION SYSTEMS	300
Tatiana Shcherbyna	DIGITAL MARKETING AND INTERNATIONALIZATION OF UKRAINIAN BUSINESSES	304
Viktoriia Kubatko, Diana Bilous	THE FIGHT AGAINST CORRUPTION AS ONE OF THE TOOLS OF THE NATIONAL ECONOMY DE-SHADOWING	308
Nataliia Letunovska	CHALLENGES FOR THE HEALTH COMPONENTS OF A REGION IN THE CONTEXT OF GLOBALIZATION	312
Anna Rosokhata, Anna Chykalova	MARKETING ACTIVITIES FEATURES FOR DIFFERENT CLASSIFICATION TYPES OF BUSINESS STRUCTURES	317
Korobets Olena,	MANAGEMENT OF ENVIRONMENTAL	322

Yaroslav Reshetnyak, Yura Yula	RISKS AT THE COMPANY: THE MARKETING DETERMINANTS	
Yana Us, Tetyana Pimonenko, Oleksii Lyulyov, Yuriy Bilan, Yulia Shaforost	THE GREEN-FEMININE STEREOTYPES AS A BARRIER ON THE WAY OF GREEN BRAND DEVELOPMENT	327
Maryna Saienko, Tetyana Pimonenko, Oleksii Lyulyov, Yuriy Bilan, Svetlana Kostornova	NEW TRENDS IN MARKETING FOR SMALL AND MEDIUM ENTERPRISES	333
Ziabina Yevheniia, Tetyana Pimonenko, Oleksii Lyulyov	EFFICIENCY OF UKRAINIAN ENERGY POLICY IN THE FRAMEWORK OF CIRCULAR AND CARBON-FREE ECONOMY	337
Yurii Bilan, Yana Us, Volodimir Nesterenko, Huseynadze K.R.	PROSPECTS OF TOURISM DEVELOPMENT	342
Olena Ivakhnenko	EFFICIENT AGRO-LAND USE IN THE CONDITIONS OF GLOBAL CLIMATE CHANGE	348
Artem Artyukhov	QUALITY OF EDUCATION AND SDGS: SOCIO-ECONOMIC ASPECT	351
Nadiia Artyukhova	KNOWLEDGE MARKETING AS A TOOL FOR SOCIO-ECONOMIC GROWTH: THEORETICAL AND APPLIED BASE	355
Khomenko L.M.	SOME ELEMENTS OF MARKETING ACTIVITIES IN BLOOD SERVICE COMPANIES: CONTENT STRATEGY OF THE SITE	360

Shkarupa O.V., Mayboroda T.M., Kalchenko Y.	SCALING ECO-INNOVATIONS BASED ON SOCIO-ECONOMIC EFFECTS IN THE "ENTERPRISE-REGION-STATE" SYSTEM	365
Oleh Dudchenko	SOCIAL AND ECOLOGICAL RESPONSIBILITY AS A SYSTEMIC ELEMENT FOR AGRICULTURAL SUSTAINABILITY	371
Yevhen Mishenin	ORGANIZATIONAL AND ECONOMIC MECHANISMS FOR ENVIRONMENTALLY SAFE AGRICULTURAL LAND USE	380
Yuriy Derev'yanko, Olha Lukash	EVALUATION ON THE BASIS OF MODERN INDICATORS	389
Vita Hordiienko, Tetiana Semenenko, Violeta Tretynyk	INTEREST RATE AND ECONOMIC GROWTH IN UKRAINE	398
Oleksii Zakharkin, Volodymyr Novikov, Dmytro Yemelianov	COMPARATIVE ANALYSIS OF THE CONCEPTS OF VALUE ORIENTED ENTERPRISE MANAGEMENT	402
Liudmyla Zakharkina, Yevhenii Okhrimchuk	INTERNET OF THINKS IN LOGISTICS	407
Oleksii Zakharkin, Liudmyla Zakharkina	THE USE OF INDICATORS OF FINANCIAL CONDITION TO DETERMINE THE ENTERPRISE'S INVESTMENT ATTRACTIVENESS	411
Ivan Shkarupa	FACTORS AND INSTRUMENTS OF MANAGING THE EFFICIENCY OF ENTREPRENEURIAL ACTIVITY IN MODERN TRANSFORMING CONDITIONS	417

Inna Tiutiunyk, Andrii Zolkover, Sergij Lyeonov, Aleksy Kwilinski, Alina Vysochyna, Kostronova Svetlana	THE INNOVATIVE FINANCIAL TECHNOLOGIES AND ITS IMPACT ON SHADOW TRANSACTIONS	422
Larysa Hrytsenko, Oleksandra Tverezovska	EVALUATION OF PUBLIC-PRIVATE PARTNERSHIP PROJECTS' RISKS	426
Hanna Shvindina	COOPETITION MODEL OF INTERACTIONS FOR INSTITUTIONS IN A SPHERE OF EDUCATION	430
Yuliia Humenna, Semen Tymoshenko	MERITS AND CHALLENGES OF DIGITAL ECONOMY IN DEVELOPING COUNTRIES	436
Yuliia Shkodkina, Yuliia Humenna, Oleksandra Tverezovska	OBSTACLES TO START-UP IMPLEMENTATION IN THE MODERN CONDITIONS OF ECONOMIC DEVELOPMENT	440
Ihor Kobushko Iana Kobushko	CREATING MOTIVATION FOR EMPLOYEES THROUGH KPIS SYSTEM	445
Nataliia Kotenko	THE IMPACT OF INTERGOVERNMENTAL FISCAL POLICY ON LOCAL SUSTAINABLE DEVELOPMENT	451
Nataliia Antoniuk, Iryna Plikus, Alona Myronova	INDICATORS OF FINANCIAL SYSTEM SECURITY	456
Iryna Plikus, Nataliia Antoniuk	THE INFLUENCE OF DIGITALIZATION ON TRANSFORMATION PROCESSES ON THE LABOR MARKET	460

Oleksandr Zaitsev, Dmitro Nikitin	THE MECHANISM OF FINANCIAL RECOVERY OF THE ENTERPRISE SHOULD INCLUDE THE CASH AMOUNT OF THE LOAN AS PRODUCTION COSTS	466
Svitlana Kolosok, Iuliia Myroshnychenko, Yuliia Matvieieva, Denis Hryhorenko	INVESTMENT MANAGEMENT FOR SMART GRID PROJECTS: A CROSS-COUNTRY ASSESSMENT	470
Opanasiuk Yuliia, Taraniuk Karina, Maryn Matvii	TRANSITION TO GREEN ECONOMY: BASIC PRINCIPLES AND PROBLEMS	475
Viktoriia Shkola	ADVANCED DEVELOPMENT AND INTELLECTUAL CAPITAL: AN INFLUENTIAL ASSESSMENT	482
Semenog A. Mykhalova A.	THEORETICAL ESSENCE OF TRUST IN FINANCIAL SERVICES	488
Veronika Barvinok, Anna Vorontsova, Julia Sergienko	INTERNATIONAL MIGRATION AND THE COVID-19 PANDEMIC: LITERATURE REVIEW	494
Kateryna Hrek, Iryna Didenko	STUDY OF POSSIBILITIES OF THE BPW PACKAGE. DIFFERENCE ON CREATION OF DFD DIAGRAMS AND IDFO DIAGRAMS: DESCRIBE THE PROCESS OF LOGISTICS AT THE ENTERPRISE	497
Burnakova Valeriia	SUSTAINABLE DEVELOPMENT STRATEGY FOR TOBACCO INDUSTRY	502
Olena Shkarupa, Anastasija Turchyn, Kateryna Vlasenko	FORMATION OF A POSITIVE IMAGE OF WOMEN LEADERS IN PUBLIC ADMINISTRATION	506

FUTURE LOGISTIC'S TECHNOLOGOIES IN CONTEXT OF INDUSTRY 4.0

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Introduction. Technology and digitalization are penetrating and changing all areas of business, and logistics is no exception. Logistics both today and in the future will be one of the main factors in the competition. Success in competition between enterprises and economic regions is determined by the level of competence and technology in logistics.

Robotics in warehousing

The first works in the supply chain were in production. George Devol registered the first robotics patent in 1954, and his company Unimation made the first industrial robot in 1956. This first robot was able to move material at a distance of about three to six meters. General Motors installed the first robot at the plant in New Jersey in 1962. For a long time, the works were only suitable for work in industrial production because they were dangerous to people while they were being used.[1]

Autonomous mobile works (AMR)

Autonomous mobile robots do not need a specified track or a predetermined route between locations. AMR understands its position with the help of computers, on-board sensors, and maps. These small and clever works can identify the information on each package and sort it. AMRs can move around the warehouse, so create your own routes depending on the required operation. If necessary, they also change the route and avoid obstacles in their environment.[2] These works provide efficiency, accuracy, and safety in the sorting process. They also help reduce redundant sorting so that employees can perform other roles. People are sometimes more prone to mistakes when work is very boring and monotonous. Omit, modern work provides stable accuracy regardless of the tedious nature of the process. As a result, warehouses have a higher level of inventory accuracy.

AMRs not only assist in the picking and sorting process but can also be used for daily inventory checks. Accounting robots, such as TagSurveyor, can scan inventory at a distance of up to seven and a half meters thanks to RFID sensors and scanners. Not only will your inventory data be more accurate, but it will also prevent inventory theft.[2]

Chinese warehouses are one of the fastest-growing segments of the country's economy. In fact, 40% of the world's parcels were delivered from China. Their desire for speed and accuracy has led to the creation of autonomous mobile robots. AMR can sort up to 18,000 parcels per hour, and manual labor costs are reduced by 70%.[3]

Automated storage and retrieval systems (AS / RS)

Automated storage and retrieval systems are technology that inputs and outputs inventory. It usually works in conjunction with warehousing software that manages operations.

AS / RS comes in different forms depending on the type of task, the required system, or the products it will work with. They work either as a shuttle operating on a fixed path or as a crane lifting goods between passages. Although now there are works that go up the aisles, such as Skypod, which also receive customer orders. Order picking can account for 50% or more of your warehouse's labor costs, especially for large warehouses. By reducing labor costs and time spent searching, workers can focus on more complex processes, such as packing and shipping goods.[3]

Alibaba, the world's largest retailer, has proven how useful AS / RS can be in their warehouse in China. Using 60 robots, they reduced labor costs in the warehouse by 70%. The robots work via Wi-Fi to deliver working equipment for packing and placement. As a result, their operations increased, and tripled production.[3]

Internet of Things in Logistics

The Internet of Things increases the transparency of the supply chain. You can track the location of your cargo up to a single unit. Location tracking is not limited to the timely delivery. In fact, location data obtained through the Internet of Things in logistics technologies helps transport companies to ensure the quality of goods from production to the time it arrives at its destination.[1]

This information is useful in the case of perishable goods, such as fruit. , when transporting long distances, location information can play a vital role in choosing the best alternative route in the event of a possible failure. Thus, real-time location data provides a better understanding of each link in the supply chain. The Internet of Things can improve supply chain intelligence. Being able to lock a load while it is on the road can help companies reduce risks and take immediate action, especially for temperature-sensitive loads if something goes wrong.

Besides, the ability to control the temperature throughout transportation helps companies in the supply chain to maintain the quality of perishable goods and pharmaceuticals. This data is used by the system, which notifies the relevant personnel in case of temperature drop. Internet of Things technologies can collect data related to environmental factors such as pressure, humidity, light. These systems provide important route information to help companies analyze the safety aspect. This feature can reduce supply chain losses even for the most sensitive loads.[2]

The company focuses on SenseAware is a subsidiary of FedEx, which offers to track logistics using sensors. It detects changes in light, humidity, pressure, and temperature. It also offers alerts based on time and location and is currently available in 20 countries.[3]

With an IoT-based system, supply chain companies can track the location of their

vehicles, as well as personnel assigned to a vehicle, at any time. This gives a clearer idea of how resources are used and provide insight to further improve resource allocation.[2]

The Internet of Things can help companies automate car maintenance and repair. Compliance and safety are important aspects of supply chain management, and automating this process can help companies avoid problems., there are supply chain companies that plan to use the same technology to track the health of their drivers.

With more accurate information about vehicles, drivers, and traffic, better strategies can improve fleet and fuel management.

Conclusions

Technologies in logistics are developing rapidly, each logistics company invests time and money in research and implementation of new technologies to optimize costs and increase added value. But it is worth noting that each of these companies takes risks. First of all, this is an innovation risk, because no one knows how relevant the new technology will be and whether a more optimal technology will be invented before it pays off. There is also a great legal risk, because some new technologies are not regulated in the legal field, so companies have to wait for the approval of regulatory laws, and no one knows the terms of these same laws. Another negative factor is that due to the high cost of research, new technologies are usually introduced by large companies, which poses a threat to small and medium-sized enterprises, and can lead to market monopolization by individual corporations. On the other hand, due to excessive investment in technology, companies can go bankrupt if the technology does not pay off, or if competitors come up with better technology. And new logistics operators will enter the market. But the digitalization of logistics gives rise to new activities for IT companies, such as big data analysis, predictive analytics.

References

- 1. <u>Woodford, C.</u> (2020, June 5). Virtualreality. *Explainthatstuff*, p. 1. Retrieved from https://www.explainthatstuff.com/virtualreality.html
- 2. Guttentag, D. (2010). Virtual reality: Applications and implications for tourism. *Tourism management*, p.637-651. Retrieved from https://www.sciencedirect.com/science/article/abs/pii/S0261517709001332
- 3. Wagler, A., Hanus, M. (2018). Comparing Virtual Reality Tourism to Real-Life Experience: Effects of Presence and Engagement on Attitude and Enjoyment. *Communication Research Reports*, p. 456-464. Retrieved from https://www.tandfonline.com/doi/abs/10.1080/08824096.2018.1525350
- 4. Myung Ja Kim, Choong-Ki Lee, Timothy Jung. (2018, December 26). Exploring consumer behavior in Virtual Reality tourism using an extended stimulus-organism-response model. *Journal of travel research*, p. 69-89. Retrieved from https://journals.sagepub.com/doi/abs/10.1177/0047287518818915

5. Hogan, M. (2020, May 5). Where Can Virtual Concerts G After Travis Scott's Fortnite Extravaganza? *Pitchfork*, p. 1. Retrieved from

 $\underline{https://pitchfork.com/thepitch/virtual-concerts-travis-scotts-fortnite-100-gecs-minecraft/}$

- 6. Dychkovky, S. (2019, Oktober 22). Incorporation of virtual practices into the system of virtual tourism. *Culturology*, p.1-9. Retrived from <a href="http://elib.nakkkim.edu.ua/xmlui/bitstream/handle/123456789/730/Incorporation%20of%20visual%20practices%20into%20a%20virtual%20tourism%20system.pdf?sequence=1&isAllowed=y
- 7. Korotenko, O. (2020, March 17). Without leaving home: virtual tours of museums and more. *Bazilik*, p.1. Retrieved from https://bazilik.media/ne-vykhodiachy-z-domu-virtualni-ekskursii-muzeiamy-i-ne-tilky/
- 8. Goncharenko, O., Sotnyk I., Hrynevych O. Factor modeling of reuseable goods market in the context of dematerialization of consumption. *International Journal of New Economics and Social Sciences*. 2017.
- 9. Макаренко, І. (2020). Корпоративна соціально-екологічна відповідальність та партнерство стейкхолдерів задля сталого розвитку. *Сумський державний університет*, с.260. Режим доступу:https://essuir.sumdu.edu.ua/handle/123456789/76332
- 10. Мельник, Л., Ковальов, Б. (2020). Проривні технології в економіці і бізнесі (Досвід ЄС та практика України у світлі ІІІ, ІV, і V промислових революцій. *Сумський державний університет*, с.180. Режим доступу: https://essuir.sumdu.edu.ua/handle/123456789/79621
- 11. Makarenko, I., Smolennikov, D. (2019). Corporate social and environmental responsibility of business and national economy competitiveness: in search of interaction. *Centre of Sociological Research*. Retrieved from http://essuir.sumdu.edu.ua/handle/123456789/74976
- 12. Гончаренко, О. (2019). Еколого-економічне обґрунтування дематеріалізації процесів виробництва і споживання продукції. *Одеський національний політехнічний університет*, с.252. Взято з http://essuir.sumdu.edu.ua/handle/123456789/73340
- 13. Kubatko, O., Chortok, Yu., Goncharenko, O. (2019). Studying Features of Vehicle Type Selection by Trade and Logistics Enterprise. *Mechanism of economic regulation*, p.73-82. Retrieved from http://essuir.sumdu.edu.ua/handle/123456789/76448
- 14. Hrynevych, O., Goncharenko, O. (2018, April 17). El estudio de la solidarización del sistema salarial. La experiencia de la Unión Europea. *Tecnica y Mainstreaming Social*, p.1-6. Retrieved from https://polipapers.upv.es/index.php/citecma/article/view/9162
- 15. Hrynevych, O., Goncharenko, O. (2018). The study of the solidarization of the wage system. The experience off the European Union. *Tecnica y Mainstreaming*

- Social, p.1-6. Retrieved from https://dialnet.unirioja.es/servlet/articulo?codigo=6374406
- 16. Zadorozhko, G., Nikolaev, Yu., Barabash, O., Goncharenko, O. (2018). Problems and prospects for the implementation and development of smart accounting system at municipal transport. *Sumy State University*, p.208-215. Retrieved from http://essuir.sumdu.edu.ua/handle/123456789/68734
- 17. Sotnyk I., Hrynevych O., Gonchrenko, O. (2017) Factor modeling of reuseable goods market in the context of dematerialization of consumption. International *Institute of Innovation «Science-Education-Development»*, p.123-139. Retrieved from http://essuir.sumdu.edu.ua/handle/123456789/67640
- 18. Hrynevych, O., Goncharenko, O. (2017). Green solidarity economy. *International Scientific Journal "Internauka"*, p.45-47. Retrieved from "http://www.inter-nauka.com/
- 19. Hrynevych, O., Goncharenko, O. (2017). La economía solidaria como un modelo alternativo del desarrollo económico nacional. I Congreso Virtual Internacional Economía y contextos organizativos: nuevos retos. Retrieved from https://www.eumed.net/libros-gratis/actas/2017/economia-retos/24-la-economia-solidaria-como-un-modelo.pdf
- 20. Сотник, І. (2017). Еколого-економічні механізми реалізації потенціалу енерго- та ресурсозбереження національної економіки. *Сумський державний університет*, с.132. Взято з http://essuir.sumdu.edu.ua/handle/123456789/68032
- 21. Hrynevych, O., Goncharenko, O. (2017). <u>Ecological and economic effects from implementation of the model of solidarity use of motor transport in the context of smart city creation</u>. *Economy: the realities of time. Scientific journal*, p.34. Retrieved from https://www.researchgate.net
- 22. Сотник, І. (2016). Формування мотиваційних механізмів дематеріалізаційних та енергоефективних змін національної економіки. *Сумський державний університет*, с.312. Взято з http://essuir.sumdu.edu.ua/handle/123456789/55719
- 23. Гончаренко, С., Сотник, І. (2016). Теоретико-концептуальні засади формування стратегії дематеріалізації діяльності підприємства. *ІПРЕЕД НАН Укрраїни*, с.340-349. Взято з http://essuir.sumdu.edu.ua/handle/123456789/48533
- 24. Сотник, І. (2016). Мотиваційні механізми дематеріалізаційних та енергоефективних змін національної економіки. *Університетька книга*, с.368. Взято з https://essuir.sumdu.edu.ua/handle/123456789/80197
- 25. Гончаренко, А. (2015). Научно-методичский подход к оценке уровня экологически направленной дематериализации социально-экономических систем. *Механизм регулирования экономики*, с.127-134. Взято из

https://www.infona.pl/resource/bwmeta1.element.desklight-569b4ba0-1163-4db5-bb72-250268089019

- 26. Sotnyk, I., Goncharenko, O. (2015). Formation of ecology and economic mechanism of dematerialization at the enterprise. *Sumy State University*, p.258-266. Retrieved from http://essuir.sumdu.edu.ua/handle/123456789/41683
- 27. Гончаренко, О. (2015). Науково-методичний підхід до оцінювання рівня екологічно спрямованої дематеріалізації соціально-економічних систем. *Механізм регулювання економіки*, с.127-134. Взято з https://scholar.google.com/
- 28. Goncharenko, О. (2014). Формирование модели рынка повторного использования товаров в контексте дематериализации экономики. *Одесский национальный политехнический университет*, с.188-192. Взято из https://scholar.google.com/
- 29. Чорток, Ю.В. Еколого-економічний механізм управління логістичною системою торговельного підприємства (+Авторизований доступ): Дисертація на здобуття наукового ступеня кандидата економічних наук / Ю.В. Чорток. Суми :СумДУ, 2010. 210 c.http://essuir.sumdu.edu.ua/handle/123456789/15824
- 30. Chortok, Yulija; Yevdokymova, Alona; Serpeninova, YuliyaJournal of Environmental Management and Tourism Volume IX, Issue 5 (29) (2018). P. 1011-1018DOI: https://doi.org/10.14505//jemt.9.5(29).13
- 31. Чорток, Ю.В.Екологічна стратегія логістичної діяльності / Ю. В. Чорток // Регіональний збірник наукових праць з економіки: «Прометей» / Донецький економіко-гуманітарний інститут МОН України; інститут економіко-правових досліджень НАН України. Донецьк: ДЕГІ, 2007. Вип. №2 (23). С. 226-229.
- 32. Hakobyan, N., Khachatryan, A., Vardanyan, N., Chortok, Y., &Starchenko, L. (2019). The Implementation of Corporate Social and Environmental Responsibility Practices into Competitive Strategy of the Company. MarketingandManagementofInnovations, 2, 42-51. http://doi.org/10.21272/mmi.2019.2-04
- 33. Чорток, Ю.В. Логістичні стратегії та логістичні процеси на торговельних підприємствах / Ю.В. Чорток, А.В. Євдокимов, А.О. Родимченко // Сталий розвиток економіки: Всеукраїнський науково-виробничий журнал / ПВНЗ «Університет економіки і підприємництва» ПП «Інститут економіки і технологій підприємництва». 2012. Вип. 1 (11). С. 246-249.
- 34. Shifting Paterns [Електронний ресурс] // Pwc Режим доступу до ресурсу: 1. https://www.pwc.com/gx/en/transportation-logistics/pdf/the-future-of-the-logistics-industry.pdf.
- 35. Travel and logistics: data drives the race for customers [Електронний ресурс] // Mckinsey. 2018. Режим доступу до ресурсу: https://www.mckinsey.com/~/media/mckinsey/industries/travel%20transport%20and%20logistics/our%20insights/travel%20and%20logistics%20data%20drives%20t

he %20 race %20 for %20 customers/mck-travel- and-logistics-data-drives- the-race-for-customers.pdf.

36. Automation in logistics: Big opportunity, bigger uncertainty [Електронний ресурс] // Mckinsey — Режим доступу до ресурсу: https://www.mckinsey.com/industries/travel-logistics-and-transport-infrastructure/our-insights/automation-in-logistics-big-opportunity-bigger-uncertainty#:~:text=McKinsey%20research%20estimates%20investment%20in,(8%20to%2010%20percent).

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