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CONTENT ANALYSIS OF DOCTORAL DISSERTATIONS ON ENTERPRISE ECONOMIC SECURITY, DEFENDED IN UKRAINE IN 2000-2018

Topicality. The urgency of the problem of ensuring the enterprise economic security in the modern conditions of management is particularly acute due to the growing number of unprofitable and bankrupt entities, lack of resources for effective activity, risks, threats and hazards of internal and uncertainty of external environment, etc. The practical activities of companies to ensure economic security require scientific and methodological support, which would reveal best practices, generalize existing theoretical work, methodical provisions and applied recommendations. Although the primary link of scientific communication is article, dissertation works on enterprise economic security are chosen for analysis as the most unified form of presentation of the scientific research results in this field of knowledge.

Purpose and tasks. The purpose of the article is to conduct content analysis of defended theses on enterprise economic security in order to determine the general state of research field, the degree of scientific efforts coordination and main trends of published research.

Research results. The dissertation works were selected exclusively on the subject of enterprise economic security; the sample for 2000-2018 made 205 works. Further analysis was carried out according to the criteria of method LATCH while processing data arrays – Location; Alphabet; Time; Category; Hierarchy. A number of scientific specialties, candidate and doctoral theses (PhD and Doctor of Sciences), the main term in the subject of theses, dynamics of oral defenses, leading institutions, geographic centers and economy branches are determined. There are certain regularities of the array; as well as constant dynamics in the studies of enterprise economic security in different specialties is not observed, there are periods of growth and decline, there are five institutions of higher education in Ukraine, where majority of works are defended; seven geographical centers of enterprise economic security research are allocated.

Conclusions. There is a certain recurrence of topics and research areas in various specialties in the study of enterprise economic security. When calculating the frequency of concepts in the dissertation themes it is determined the difference of specialties and corresponding research within their framework: 21.04.02 focused on the comprehensive study of system development, international standards of enterprise economic security, the mutual influence of national security and enterprises economic security, etc. We have to coordinate the research directions within the various scientific specialties on the subject of enterprise economic security, harmonize the terminology (including those with foreign correspondents), develop effective theoretical and methodological provisions and applied guidelines for the practical activity of specialists or managers of the economic security sphere of economic entities and their activities.

Keywords: enterprise economic security, content analysis, text data analysis, content-analytic research.

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КОНТЕНТ-АНАЛІЗ ДИСЕРТАЦІЙ З ЕКОНОМІЧНОЇ БЕЗПЕКИ ПІДПРИЄМСТВА, ЗАХИЩЕНИХ В УКРАЇНІ ЗА 2000-2018 РР.

Актуальність. Актуальність проблеми забезпечення економічної безпеки підприємства у сучасних умовах господарювання постає особливо гостро через зростаючу кількість збиткових та збанкрутілих суб'єктів, брак ресурсів для ефективної діяльності, ризиками, загрозами та небезпеками внутрішнього та невизначеністю зовнішнього середовища тощо. Практична діяльність компаній із гарантування економічної безпеки потребує науково-методичного забезпечення, яке б розкривало кращі практики, узагальнювало наявні теоретичні напрацювання, методичні положення та прикладні розробки. Хоча первинною ланкою наукової комунікації є

стаття, для аналізу обрано дисертаційні роботи з економічної безпеки підприємства як найбільш уніфікована форма представлення результатів наукового дослідження у цій галузі знань.

Мета та завдання. Метою статті є проведення контент-аналізу захищених дисертацій з економічної безпеки підприємства задля визначення загального стану дослідницької галузі, ступеню координації наукових зусиль та основних тенденцій оприлюднених досліджень.

Результати. Обрано дисертаційні роботи виключно з економічної безпеки підприємства, вибірка за 2000-2018 рр. складала 205 робіт. Подальший аналіз проведено за критеріями методу оброблення масивів даних LATCH - Location (розташування); Alphabet (алфавіт); Time (час); Category (категорія); Hierarchy (ієрархія). Визначено низку наукових спеціальностей, кількість кандидатських та докторських дисертацій, основну категорію в тематиці дисертацій, динаміку захистів, провідні установи, географічні центри та галузі. Виявлено певні закономірності масиву робіт, також що сталої динаміки у дослідженнях економічної безпеки підприємства за різними спеціальностями не спостерігається, є періоди зростання та спаду, є п'ять закладів вищої освіти України, де захищено найбільше робіт; виділяються сім географічних центрів дослідження економічної безпеки підприємства.

Висновки. Існує певна повторюваність тем та напрямів досліджень у різних спеціальностях щодо вивчення економічної безпеки підприємства. При підрахунку частотності понять у темах дисертаційних робіт визначається відмінність спеціальностей і відповідно досліджень в їхніх рамках: 21.04.02 орієнтована на комплексне вивчення системотворення, міжнародних стандартів з економічної безпеки, взаємовпливу національної безпеки та економічної безпеки підприємств тощо. Маємо узгодити напрями досліджень в рамках різних наукових спеціальностей з теми економічної безпеки підприємства, гармонізувати термінологію (у т.ч. з інішомовними відповідниками), розробити ефективні теоретико-методичні положення та прикладні рекомендації для практичної діяльності фахівців чи менеджерів сфери економічної безпеки суб'єктів господарської діяльності.

Ключові слова: економічна безпека підприємства, контент-аналіз, аналіз текстових даних, контент-аналітичне дослідження.

Problem statement and its connection with important scientific and practical tasks. The importance of managing the economic security of an enterprise, industry / region and state is indisputable. However, the scientific and methodological support of the enterprise's economic security is insufficient. The study of economic security at the enterprise level at the moment does not have a solid methodological basis. In this sense, the science about the enterprise economic security is at the formation stage, the methodological problems have not yet been solved completely, but the array of publications and dissertations is quite significant. Those issues need further research, it is also necessary to determine in a certain way the main features of the knowledge field and the available work in it. In the given article dissertations on the subject of enterprise economic security are selected for analysis.

Analysis of recent publications on the problem. In domestic publications on enterprise economic security, there are certain gaps – in particular, in the studies of different authors, the very essence of the category is being treated differently, the structure of the economic security system and the content of economic security are not coordinated etc. Additionally the techniques for analyzing the system efficiency or assessing economic security at the enterprise level are not defined. In rare works with a certain analysis of theses on economic security, there were present only: a selective list of dissertations, defended in the context of enterprise innovative development [1, p. 40], some remarks about defended dissertations in the near abroad about the banking sector [2, p.76], counting of the total number of dissertations on security defended in Russia and Ukraine [3, p. 104] and counting the number of references used in three doctoral dissertations from one hundred defended in Ukraine and the CIS [4, p.193].

Allocation of previously unsolved parts of the general problem. Although in Ukraine there is a large number of dissertations defended on the enterprise economic security subject, there is no comprehensive analysis of existing dissertations. Therefore, a detailed analysis of the theses defended on enterprise economic security is necessary.

Formulation of research objectives. The purpose of the theses content analysis was to determine the state of the research field on the enterprise economic security and the degree of scientific efforts coordination.

Outline of the main results and their justification. The article presents the results of a complete content analysis of theses on the subject of enterprise economic security, defended in Ukraine for the period of 2000-2018. Content analysis is a sequence of quantitative analysis of text arrays, revealing certain patterns in them with a purpose of further interpretation of their content.

The primary unit of analysis was a title; however, later the author adjusted and modified the research technique to expand the information coverage. Further analysis was carried out on all the initial data of the theses with the grouping of their characteristics by seven parameters: specialty, year of defense; the institution where the academic council acted at the time of defense; city, industry of the analyzed enterprise, main term

in the work title, scientific degree (doctor / candidate of science).

Beginning of the creation of a sample of theses on enterprise economic security (EES) was April 2015, based on the “autoreferats” (first-person narrative summaries) database at the Vernadskyi National Library (NLUV) [5], commercial sites, defense announcements in the “Chronicle of summaries” [6] and “Education of Ukraine” [7]. In the summer of 2016 author used an electronic database of research and dissertation works at the Ukrainian Institute of Scientific and Technical Expertise and Information (UkrISTEI, full access in the reading room [8]) and later, by the end of 2018 the data of the academic councils sites was added [9-15]. In that period councils already were required to present summaries and dissertations on web-sites for public examination in accordance with the Order of the Ministry of Education and Science in Ukraine (MESU) “On Disclosure of Theses and Comments of Official Opponents” No. 758 dated July 14, 2015.

It must be noted that the search is still complicated with the absence of the single source, which would contain pivot information about all vivas. The National Academy of Legal Sciences (NALS) annually creates a list of approved topics and provides an analysis of defended dissertations, which helps law practitioners and academics determine the elaboration degree of individual elements in the work of scientists, to find certain regularities and so on.

Regarding the economic sciences in general, and the enterprise economic security in particular, the resources of UkrISTEI and NLUV did not fulfill the role of the only information source, because they did not contain the complete information (both about the dissertations from the beginning of the 2000s, and the new incomes that should have already been put in the database, but were not by no particular reason). Plus scattered searches on the academic councils sites can not be called effective, because for the full analysis it is necessary first to find an up-to-date list of academic councils on the Ministry of Education and Science in Ukraine website, then visit each site, find available summaries and dissertations, filter by subject / specialty, add to a specific interim table for further analysis and continue on from scratch. If for the specialty 21.04.02 at the end of 2018 there are only 4 councils whose sites can be periodically monitored, then for the economic sciences only in specialty 08.00.04 there are already 66 councils [16] and the process is rather time consuming. Not to mention the growing interdisciplinarity of research, and work on economic problems in related sciences will no longer be able to be found, the search should be carried out precisely by the key words. Lack of automation in the primary search may lead to incompleteness or falsity of further research, repeatability of work, incorrect definition of scientific novelty, etc.

In addition to the incompleteness of UkrISTEI and NLUV databases and the long search at the sites of academic councils, there is a time factor: the mentioned Order of the Ministry of Education and Science of Ukraine No. 758 of 07/14/2015 sets the deadline for the publication of theses (from 2015) – 10 days before the defense and 3 months after it the work has be on the council’s web site. And often after this period thesis is completely removed from online access.

Therefore, a retrospective analysis of theses till 2015 is possible only by abstracts (which are not all available in these bases), and after 2015, complicated by this requirement in 3 months – after this time dissertation may not be present online. What caused such an embargo is incomprehensible.

Announcement publications on the dissertation defense in the print media (as it is now in the MESU newspaper “Education of Ukraine”, before that – in the bulletin “Attestation Bulletin”) in general seems inappropriate, since the edition also does not have any system that could be used to streamline the data, sometimes the search in electronic version of newspaper file does not work because of its protection from any actions of the reader, etc.

Creation of a single all-Ukrainian repository of dissertations and accompanying materials would help to better define the key categories, disseminate the authors’ work, their recommendations among scientists and all interested persons. (A similar repository on the basis of UkrISTEI was announced in 2015, but its formation is postponed until 2019). In economics, and in every discipline, the study of previous works is a necessary process for determining the relevance and scientific novelty of research. We hope that from 2019 the repository will begin to function.

When forming a sample of theses on enterprise economic security, we considered the widest term – without distribution to financial, tax, social, personnel, environmental; corporate ... types of security and at the enterprise level, not state, region, sector, industry or business / entrepreneurial activity. There were also no tangible topics – risk management, sanitation, protection, crisis / crisis management, bankruptcy, restructuring, etc.

In total, for the further analysis, 205 dissertations were selected on the subject of enterprise economic security.

For completeness of the analysis, the criterion is generalized by the universal method “Five Hat Racks” / LATCH [17-19]:

Location – information from different places or sources is organized according to location (Table 3, 4, Figure 3 shows the geographical representation of universities and cities);

Alphabet – recognized as one of the easiest ways to organize large amounts of data in the form of a list, dictionary, list of references, etc. (Initial data collection was carried out precisely in the alphabetic order – in order to prevent duplication of data it was sorted by the surname, first name, patronymic of the authors);

Time – data is grouped as historical processes or data sequence. (Chronology is shown in Figure 2 – Dynamics of defenses);

Category – the organization is conducted by the similarity of information, type, color, popularity, grade, etc. (3 categories are chosen: specialty – is reflected in Table 1; Table 2 defines the distribution according to the scientific degree of the doctor / candidate of sciences; Figure 4 shows the industry in the title);

Hierarchy – data is grouped by value, amount, subordination, and so on. (Figure 1 shows the use frequency of the main terms in dissertation title; also in order to organize the data on the number of defenses ranking was conducted from the largest to the smallest; in determining the centers of research and consideration only the micro level – the EES, not the economic security of the state or industry or the region).

In table 1 there were identified four areas of knowledge, in which the theses were defended with the most relevant topics – technical, economic, pedagogical sciences and the category “National Security”. The largest number of defended theses on this subject was in the field of economic sciences – 115 works, 99 of them in specialty 8.00.04 Economics and management of enterprises (by types of economic activity), as well as 5 more on the same specialty in 2000-2004, but according to the previous VAK code – 08.06.01. In 2008, the scientific specialty 21.04.02 was created [20, 21], which was singled out precisely for the research on the enterprise economic security with the system approach.

Table 1

Distribution of dissertation papers on the EES by scientific specialties

Branch of knowledge	Number of defended theses
<i>05 Technical sciences</i>	
05.13.06 Information Technology	1
<i>08 Economic Sciences</i>	
08.00.04 Economy and management of enterprises (by types of economic activity)	99
08.00.09 Accounting, analysis and audit (by types of economic activity)	2
08.00.11 Mathematical methods, models and information technologies in economics	2
08.02.04 Economy and management of enterprises (by type of activity) / 08.00.04	1
08.03.02 Economic-mathematical modeling / old code for 08.00.11	2
08.06.01 Economics, organization and management of enterprises / old code for 08.00.04	5
08.06.04 Accounting, analysis and audit / old code for 08.00.09	1
08.07.04 Economy of transport and communication	2
08.07.05 Trade and services economy	1
<i>Total for economics</i>	<i>115</i>
<i>13 Pedagogical sciences</i>	
13.00.04 Theory and methodology of professional education	1
<i>21 National security</i>	
21.04.02 Economic security of economic entities (economic sciences)	88
In general, from all the sciences on the EES	205

Source: summarized by the author on the basis of data [5-15]

The quantitative distribution according to the criterion of the thesis for the degree of a doctor or a candidate of sciences is given in the table. 2. In specialty 21.04.02 19 doctoral theses defended from all 88 works, 4 times viva was held in two specialties – to 21.04.02 three times was added 08.00.04 Economics and

management of enterprises (by types of economic activity) and once 08.00.09 Accounting, analysis and audit (by type of economic activity). Though the majority of doctoral theses (for Dr.Sc. degree) both in specialty 21.04.02 and the rest of the specialties are defended in one specialty.

Table 2

The number of Ph.D. (candidates of science) and Dr.Sc. dissertations defended in the 2000-2018 on the EES

	Specialty	
	21.04.02	others
doctors	19*	11**
candidates	69	106***

Notes:

* of them, the doctoral dissertation is defended in two specialties: 3 – also at 08.00.04, 1 – 08.00.09

** all in specialty 08.00.04

*** 1 of them is candidate of technical, 1 – pedagogical sciences

Source: summarised by the author on the basis of data [5-15]

Pivot information on the theses titles contains 5 main terms with the highest frequency of use: enterprise economic security, ensuring, mechanism, system, management.

As for the main term in the topic formulation, then the diagram on Fig. 1 clearly demonstrates the orientation and the main difference of specialty 21.04.02 from others in the EES study: the main attention in the works of 21.04.02 focuses on the issues of system formation, on the system of enterprise economic security, its creation and functioning (almost half of the theses – 42; or 48% focuses on these aspects), while in other specialties the research is devoted to the enterprise economic security (54 works, 46 % of the total), its quantitative and qualitative characteristics without considering the concept as a complex of functional components, activities, evaluation methods, etc. In the passport of specialty of 08.00.04 it is indicated: “II. Areas of research: 6. Economic security of entrepreneurial activity”, 08.00.03 “Economic security of the national economy”.

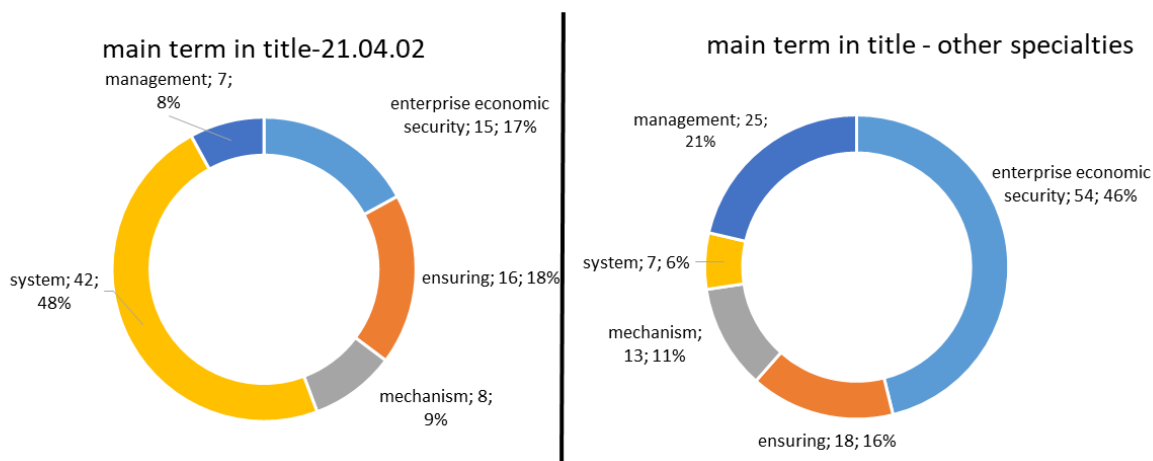


Fig. 1. Frequency of concepts (main term) in the subject of dissertations on the EES in 2000-2018

Source: generalized by the author on the basis of data [5-15]

Theses on the EES defended in the period of 1991-2000 were not found by the author. The first defense in specialty 21.04.02 took place in 2009. Since 2000, all vivas have taken place in other economic specialties, taking into account the industry specificity of the analyzed enterprises, or the method of research – economic and mathematical modeling, accounting, etc. In 2002 and from 2005 to 2007, there were no defenses on the subject of enterprise economic security at all. In total, for the period of 2000-2018, 205 dissertations were defended on the EES, of which 88 – in specialty 21.04.02 (on average of 8 theses a year, at least 4 in 2009 right after the opening of specialty), 117 in other specialties (on average 6 per year, the least – in 2001 and 2003 – 2 theses a year). Most defenses in 21.04.02 was in 2016 – 13, and in the other specialties – 16 vivas in

2015. In 2011, 2016, 2017 and 2018 in the specialty of 21.04.02 it was defended more dissertations than in other specialties. In 2014, defenses number was even (Fig. 2).

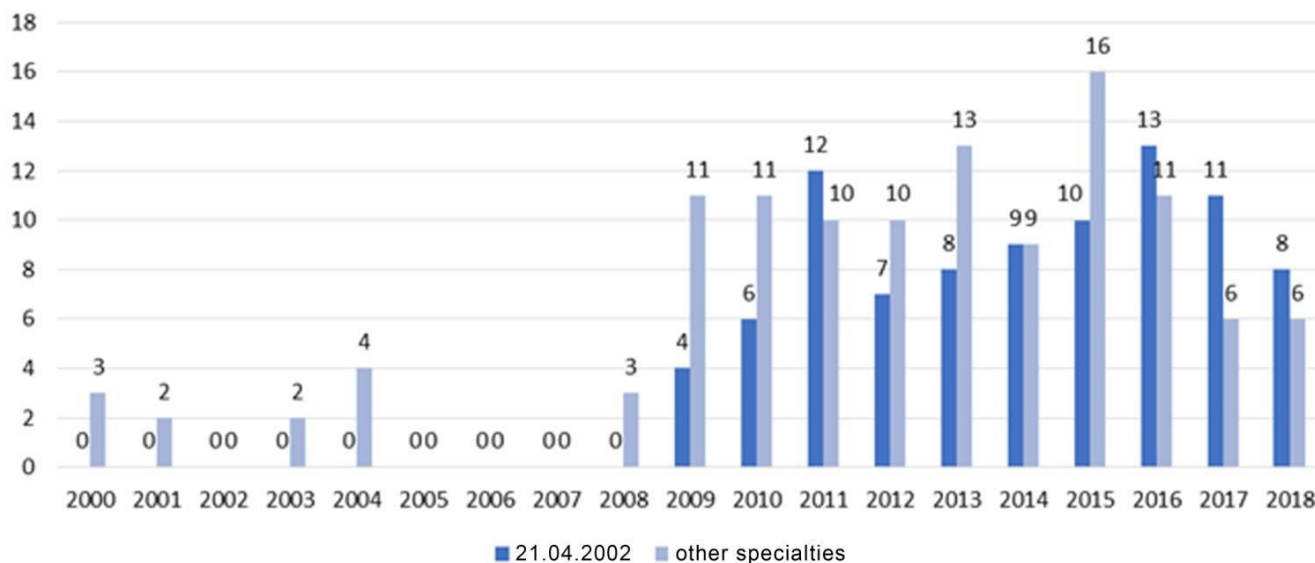


Fig. 2. Dynamics of the dissertation on the EES defending by years

Source: generalized by the author on the basis of data [5-15]

Tables 3 and 4 provide data on organizations and the number of defended dissertations on the EES in specialty 21.04.02 and others respectively.

Table 3

Establishments-leaders by the number of defense of dissertations on the EES in specialty 21.04.02

Universities	Specialty	
	21.04.02	08.00.04 and others
Institute of Industrial Economics of the National Academy of Sciences of Ukraine	1	1
Kyiv National Economic University of Ukraine named after Vadym Hetman	1	3
National Institute for Strategic Studies	1	x
Lviv State University of Internal Affairs of the Ministry of Internal Affairs of Ukraine	7	x
Kharkiv National University of Municipal Economy named after A. M. Beketov	9	2
Cherkasy National University named after Bohdan Khmelnytsky	9	x
East Ukrainian National University named after Volodymyr Dahl	21	6
University of Economics and Law "KROK"	39	x

Source: generalized by the author on the basis of [5-16]

Notes: added specialty 08.00.04, because these universities have defended works on the EES also in this specialty

List of institutions with the defended dissertations on the EES in other specialties

Name	Number
State Economics and Technology Transport University Dnipropetrovsk State Agrarian and Economic University Dnipropetrovsk National University of Railway Transport named after V. Lazarian Donetsk Agrarian University Donetsk State University of Economics and Trade named after M. Tuhan-Baranovskyi Zhytomyr State Technological University Zhytomyr National Agroecological University Kyiv State Academy of Water Transport named after Hetman Petro Konashevych-Sahaidachnyi Kyiv National University of Trade and Economics Kremenchuk National University named after Mykhailo Ostrohradsky Lviv National Agrarian University Lviv University of Business and Law, Interregional Academy of Personnel Management Research Institute of Economics National Metallurgical Academy of Ukraine National Aerospace University named after M. Ya. Zhukovskyi "Kharkiv Aviation Institute", National Transport University Odesa National University of Economics Taurian National University named after V.I. Vernadskyi Ternopil National Economic University Uman State Pedagogical University named after Pavlo Tychyna Kharkiv State Academy of Railway Transport Kharkiv: National Automobile and Highway University, Polytechnic Institute	one per each
Dniprovskiy National University named after O. Honchar Zaporizhzhia National University Ivano-Frankivsk National Technical University of Oil and Gas Institute of market problems and economic-ecological research Kyiv National University of Construction and Architecture Luhansk National Agrarian University NAAS of Ukraine, NSC "Institute of Agrarian Economics" National Technical University of Ukraine "Ihor Sikorskyi Kyiv Polytechnic Institute", National University of Life and Environmental Sciences Podilskyi State Agrarian and Technical University Sumy State University, Ukrainian Engineering and Pedagogical Academy Ukrainian State University of Railway Transport (since 2010 – Academy) Kharkiv National Technical University of Agriculture named after Petro Vasylenko	two per each
Kyiv National University of Technology and Design National University of Food Technology Ternopil National Technical University named after Ivan Puluj	three per each
Lviv Chamber of Commerce, National Aviation University Odesa National Polytechnic University Pryazovskyi State Technical University Kherson National Technical University Kharkiv National University of Economics named after S.Kuznetz	four per each
Donetsk National University European University Kryvyi Rih National University (until 2011 – Kryvyi Rih Technical University) Khmelnitskyi National University	five per each

Source: generalized by the author on the basis of data [5-16]

The largest number of defenses in 21.04.02 at mentioned institutions is explained by the functioning of specialized academic councils for the defense of doctor's (candidate's) dissertations in the specialty 21.04.02 or their formation in two specialties for the one-time defense of doctoral dissertations. At Institute of Industrial Economics of the National Academy of Sciences in Ukraine, Illiashenko O.V. defended doctoral dissertation “Methodological principles of formation and functioning of the enterprise economic security system mechanisms” in 2016 in specialties 08.00.04 – economy and management of enterprises (by types of economic activity) and in 21.04.02 – economic security of business entities. At Vadym Hetman Kyiv National Economic University of Ukraine, Hnylytzka L.V. defended the work “Accounting and analytical support for the functioning of the enterprise economic security system” in 21.04.02 and 08.00.09 “Accounting, analysis and audit (by types of economic activity)”. Also in two specialties – 08.00.04 in addition to 21.04.02 – Liashenko O.M. and Ovcharenko Ye.V. defended their doctoral theses at Volodymyr Dahl East-Ukrainian National University.

In other specialties on the subject of enterprise economic security, at universities there are defended from 1 to 5 dissertations (Table 4). The names of the institutions are given at the time of dissertation defense, without taking into account renaming or reorganization, if this did not happen between theses' defenses.

Geographically, there could be identified such domestic scientific schools of the EES: Zaporizhzhia (Cherep A.V.), Cherkasy, Luhansk / Severodonetsk (the beginning of research work in this direction of Kozachenko H.V., Liashenko O.M., Rossoshanska O.V., Illiashenko O.V.); Kyiv, Lviv (Zhyvko Z.B., Moiseienko I.P., Franchuk V.I., Khoma I.B.), Kharkiv (Otenko I.P., Kavun S.V., Momot T.V.). The map of Ukraine contains scientific schools with the relevant oblast centers (Fig. 3), in which the largest number of dissertations on the EES are defended in terms of specialties: in Kyiv there are 73 theses in total, in Luhansk / Severodonetsk – 29, Kharkiv – 25, Lviv – 13, Donetsk – 12, Dnipropetrovsk and Cherkasy oblasts – 10. Also, 7 dissertations are defended in Odesa and Khmelnytskyi, 4 in Ternopil and Kherson; in Zhytomyr, Zaporizhzhia, Ivano-Frankivsk and Sumy – per 2 and in Kremenchug, Lutsk and Simferopol – per 1.

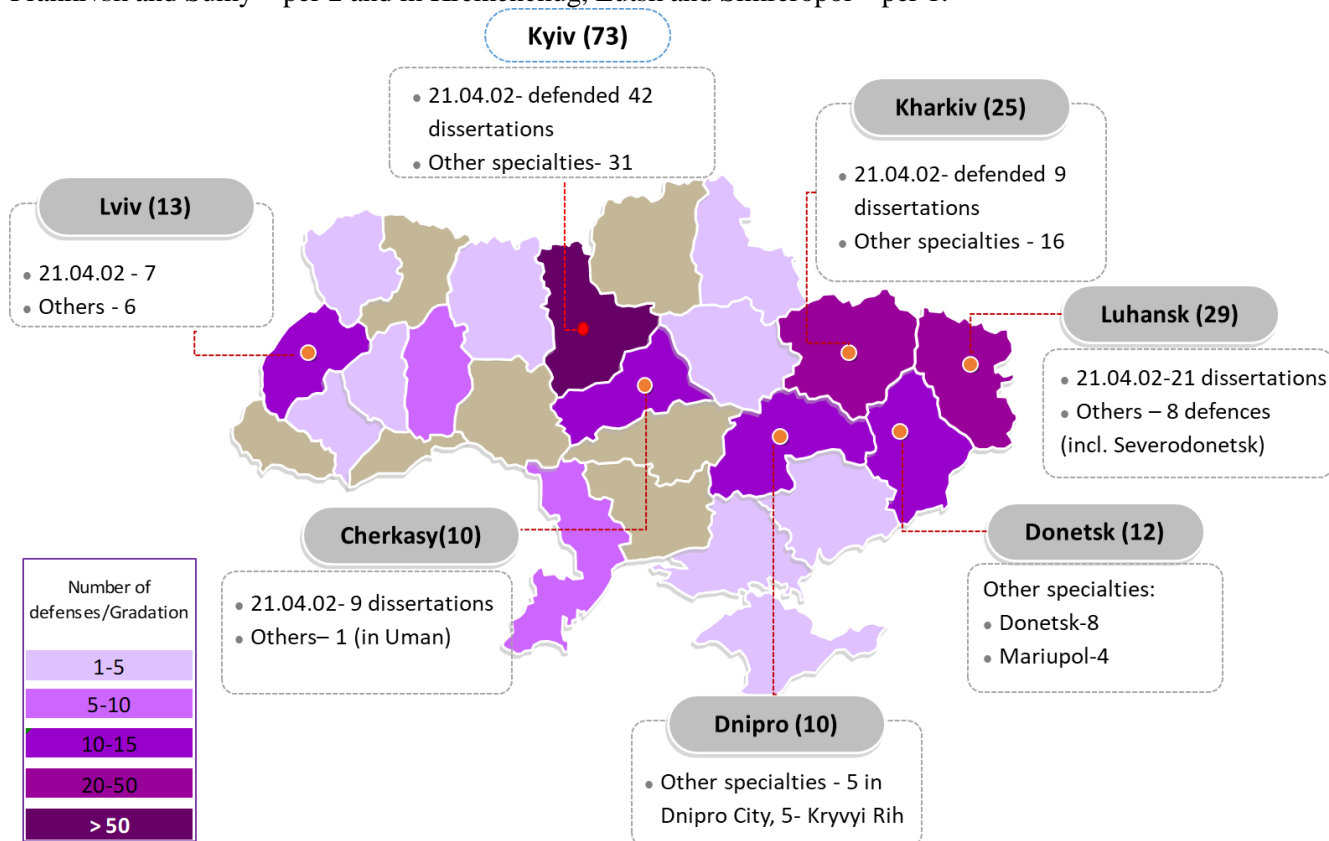


Fig. 3. Geographic research centers for the EES in Ukraine

Source: created by the author on the basis of data [5-16]

The classification of theses by economic sectors, that are specified in the title of the topic or are analyzed directly in the work are shown in Fig. 4 for comparison in 21.04.02 and other specialties. “Not specified”

means that in title sector is not specified, and in the text of the dissertation, the analysis of enterprises is carried out according to other criteria – size, organizational and legal form, innovation or project activity, in the context of several industries, etc.

In most works in all specialties, the parameter “not specified” is most often encountered. Without it being taken into account in the specialty of 21.04.02 the main 3 parameters are construction, industry and financial entrepreneurship; in part with other specialties, the most often subjects of research are enterprises of agroindustrial complex, industry and transport. This is due to the significant role of these sectors in the overall complex of the national economy and the corresponding need to study the economic security of these enterprises, the impact of their financial situation on the state of the whole industry, region and country.

The agroindustrial complex includes all related sub-sectors (according to the wording of the theses authors), the industry is classified by type of activity (for example, publishing and printing, forestry, defense, oil and gas, food, brewing, baking, engineering, etc.). To financial intermediation are assigned related services for business, incl. audit, insurance, guards, etc.

The sector of HoReCa and Hospitality is taken as a hotel and recreational complex, a representation of the tourist and recreational area (hotels / recreational complexes / sanatoria / recreation facilities); therefore hotel and restaurant categories and the general wording “tourist enterprises” in the dissertation title are included.

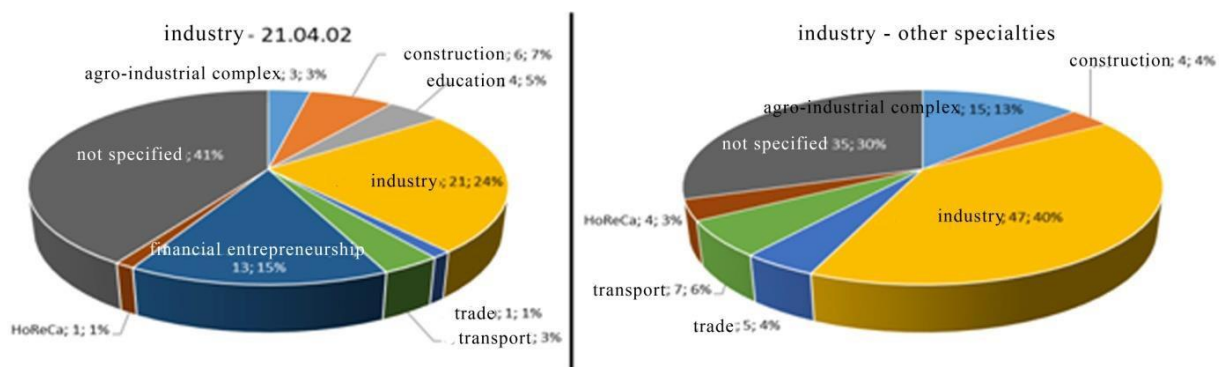


Fig. 4. Economic sectors distribution of dissertations on the EES

Source: created by the author on the basis of data [5-15]

The division of sectors into sub-sectors according to the theses is decoded in Table 5.

It should be noted that in dissertations of other specialties on the EES organizations in the field of education and financial entrepreneurship were not investigated, institutions of these economy sectors drew the attention of scientists only in specialty 21.04.02.

Table 5

Details of national economic complex branches, where enterprises are researched in the EES theses

Sector	EES of what enterprise – the number of theses	
	Specialty 21.04.02	08.00.04 and others
Agro-industrial complex	poultry enterprises – 1 grain market players – 1 agroholdings – 1	agricultural – 7 agro-industrial – 2 agrarian – 4 enterprises of the agro-food sector – 1 enterprises of the agrarian sector – 1
Construction	construction companies – 5 enterprises of construction holding – 1	construction – 2 corporate enterprises of the construction industry – 2
Education	higher education institutions – 2 military higher educational institutions – 1 higher education institutions of private ownership - 1	x
Trade	trading enterprises – 1	trade enterprises – 3

		retailers – 1 retail business, corporate networks – 1
HoReCa	enterprises in the sphere of restaurant business – 1	tourist enterprises – 3 recreational complex – 1
not specified	corporations – 3 innovation and project activity – 2	strategic importance – 1
Industry	industrial enterprises / industry enterprises – 5 industrial complex – 1 publishing and printing industry – 3 mining and industrial complex – 1 forest industry – 1 machine building – 3: - enterprises of mechanical engineering - car-building enterprises - transport machine building metallurgical enterprise – 1 the oil and gas industry of Ukraine – 1 defense industry – 1 brewing industry – 1 food - 1: - meat processing chemical and pharmaceutical industry – 1 bakery industry – 1	industrial enterprise/s – 11 aviation industry of Ukraine – 4 wine – 1 producers of soft drinks – 1 gas transportation – 1 mining-extraction – 2 mining and concentrating – 3 energy – 1 power generating enterprises – 1 machine building – 15 metallurgy – 1 the oil and gas industry of Ukraine – 1 Food – 4: - milk processing – 1 - baby food – 1 - food industry enterprises – 2; - bakery industry (bakery products) – 1
Transport	subjects of logistic activity – 1 of motor transport enterprises – 1 transport and forwarding enterprises of Ukraine – 1	motor transport company – 2 water transport enterprises – 1 railway transport – 2 railways – 1 transport enterprises – 1
Financial Entrepreneurship *	audit entities – 1 securities traders – 1 bank 1 / banking institutions 3 / commercial banks 1 / commercial bank 2 joint investment institutions – 1 financial institutions – 1 insurance companies – 1 guarding enterprises – 1	x

Source: created by the author on the basis of data [5-15]

At the same time, the provision of economic security, the efficient functioning of ERM systems (enterprise-risk management, the closest equivalent in the essence to the Ukrainian research direction on enterprise economic security) at institutions in the field of financial entrepreneurship (in particular, banks) and institutions of higher education in foreign publications are quite deeply studied and are the research subject of many scientific groups.

Conclusions and perspectives of further research. Thus, in fact there is a certain repetition of topics and areas of research in various specialties. And although some works clearly distinguish the direction of economic security of business entities within, for example, mathematical methods and models, and this is justified by the content of research, then other dissertations can often be defended in the specialty 08.00.04, and 21.04.02, and in two at the same time, if applied for the degree of Doctor of Science. In total during the existence of specialty 21.04.02 (since 2008) 88 works were defended, and in the specialty 08.00.04 – 115 works, along with economic, technical, pedagogical sciences and the category “National security” – 205 theses. When calculating

the use frequency of terms in the dissertation work topics, the difference between specialties and corresponding research within their framework is determined: 21.04.02 is focused on the comprehensive study of system development, international standards on economic security, the interaction of national security and economic security of enterprises, etc.

There has been no detected dynamics in the studies of the enterprise economic security in different specialties, there are periods of growth and decline. The institutions, in which the largest number of dissertation on economic security were defended, are five domestic universities: Lviv State University of Internal Affairs of the Ministry of Internal Affairs in Ukraine, Kharkiv National University of Municipal Economy named after Beketov, Cherkasy National University named after Bohdan Khmelnytsky, East Ukrainian National University named after Volodymyr Dahl and the private higher educational institution "University of Economics and Law "KROK". Accordingly, geographic centers for research on the enterprise economic security were identified: Kyiv, Kharkiv, Dnipro, Cherkasy, Lviv, Donetsk and Luhansk regions. Economic security of enterprises in construction, industry and financial entrepreneurship (insurance and auditing companies, banks, etc.) are mostly studied by applicants in the specialty of 21.04.02, and agro-industrial complex, industry and transport, are the most popular branches, investigated in specialty 08.00.04 and others.

There is a certain inconsistency of research both among domestic scientists and among foreign scientists. Scientific efforts are not coordinated, communication is not carried out sufficiently and effectively, even the research directions are not aligned and passports of specialties are not actualized. In the future, it is necessary to determine the economic content and essence of the main categories in economic security, to develop the most effective techniques and methods for the provision, evaluation and improvement of the enterprise economic security system.

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