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PROSPECTS AND INNOVATIONS RESEARCH OF CRIMINALISTIC TECHNIQUE

Abstract. *The article is devoted to the researchers of current problems of innovations in criminalistic technique. The use of means of criminalistic technique should cover all types of activities (investigative, judicial, expert, prosecutorial, legal, detective, operational and investigative, etc.), which takes into account the trend of expanding the scope of criminalistic knowledge in legal practice. An analysis of scientific approaches was conducted to understanding of the innovative criminalistic product, its definition is offered, the essential signs and properties are allocated, its correlation with the concept of criminalistic innovation is analyzed. The main ones properties of an innovative criminalistic product are considered: innovation (novelty), objectivity, subjectivity, purposefulness, demand, implementation in practice, efficiency. Research of new branches of criminalistic technique largely determines the innovative directions of modern criminalistic research in the field of criminalistic technique.*

Keywords: *innovations in criminalistic technique, criminalistic innovation, innovative criminalistic product, innovative directions of development of criminalistics technique.*

Introduction. Today in the criminalistic doctrine there are a number of debatable problems concerning the study of innovations in criminalistics and the problems of their introduction into the practice of investigative, judicial and expert activities. Thus, a separate in-depth study, critical analysis and further research developments require problems: the study of the theoretical foundations of innovation



in criminalistics, determining their place and role in the system of criminalistic knowledge; development of the concept and features of criminalistic innovations; identification and research of types of innovations in criminalistics, their characteristics; problems and directions of creation of innovative criminalistic products and technologies; research and analysis of the introduction of innovations in the practical activities of combating crime; efficiency and practical value of the proposed innovations in criminalistics; identification and research of promising areas of innovative development of criminalistics, including innovations in criminalistic techniques, theoretical and methodological foundations of their development and problems of introduction and application of criminalistic innovations in practice [1; 2; 3].

Traditionally, in criminalistics there are three areas of identifying the development and implementation of innovations — technical-criminalistic, tactical-criminalistic and the direction of providing methods for investigating certain types of crimes [4, c. 50]. In our opinion, the technical-criminalistic direction has received the most active development in terms of innovation, but in the researches of this issue there are now many debatable and unresolved issues that need special study and resolution. As the study of special literature and practice shows, today not enough attention is paid to the study and analysis of innovative areas of criminalistic research and problems of their application in the practice of law enforcement agencies to improve efficiency and optimize their work. Therefore, the problems of innovations in criminalistic techniques, which are not sufficiently developed in criminalistics today and need in-depth research and analysis, are becoming especially relevant and important today.

Presentation of the main research material. In our opinion, the main essential features of criminalistic innovation are as follows:

1) the novelty of developed, proposed and implemented in practice products (products), technologies, services, solutions is manifested in the fact that they are associated with the creation and emergence of new properties improve its parameters and characteristics, so they are newly created, or newly used, or improved;

2) developed, proposed and implemented in practice the latest technical, tactical, methodological and forensic means (innovative criminalistic means) are in demand and used in a constant mode in practice, they are implemented in the form of new products (products), technologies, services, solutions;

3) developed, proposed and put into practice the latest technical, tactical, methodological and criminalistic means *are the result of scientific-research or research-construct* development, in demand and applied in practice, forms of implementation (application) of such innovative criminalistic means are new products (products), technologies, services, solutions;

4) the use of such innovations is *carried out by special entities* (investigator, judge, etc.), which ensures the qualification and efficiency of the use of developed and implemented in practice innovative means;

5) *the focus* of innovative tools on the effective solution of criminalistic problems, ensuring optimization, improving the quality and effectiveness of law enforcement practice and further innovative development of criminalistics.

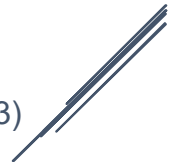
In our opinion, that the most successful, optimal for the process of development, implementation and application of innovations in law enforcement practice that meet the above characteristics, should be recognized the established term "criminalistic innovation", thus emphasizing its focus on solving tasks of criminalistics, obtaining the effect of their practical application and fulfillment of their functional purpose — ensuring the improvement of the quality and effectiveness of investigative, judicial and expert activities[5; 6].

Today, criminalistic technique, harmoniously combining the achievements of natural, technical, humanities, is considered by most criminalistic scientists (V.P.Bakhin, R.S. Belkin, V.G. Goncharenko, V.Y. Karlov, N.I. Klymenko, M.V. Saltevsy, V.Yu. Shepitko, etc.) as a section of criminalistics, which is a system of scientific knowledge, as well as developed on their basis technical means, technique and methods designed to collect, research and use the use of criminalistical significant information in order to establish truths in litigation.

It is known that the emergence of criminalistic technique as a system of criminalistic knowledge and a variety of practical activities is associated with the introduction of the achievements of natural and technical sciences in the practice of combating crime. Criminalistic technique were formed on the basis of the use of data from the natural and technical sciences in criminal proceedings in order to detect and investigate crimes. Methods of chemistry, physics, ballistics, medicine and other fields of knowledge were adapted to identify traces of crime, their study and interpretation, and ultimately — to solve the problems of criminal proceedings. Along with this, and developed their own criminalistic technique and means. Thus, in the field of criminalistics there is a coherent system of scientific and technical means, adapted and specially designed for the detection, investigation and prevention of crimes. The purpose of the use of criminalistic technique is to identify and study the reflections (traces) of a criminal event and extract evidence from them [7, c. 118, 121].

In the modern realities in the field of criminalistic technique there is a tendency of active search for the development and implementation of innovative criminalistic products aimed at optimizing the investigation of crimes and trials. As noted in the criminalistic literature, such innovative products include new developed or adapted to the needs of investigative (judicial) practice criminalistic means, modern information technology, electronic knowledge bases, methods of recording, analysis and evaluation of evidence, and others [8, c. 118]. Examples of innovations in law enforcement are identification biometric systems based on static and dynamic human characteristics (electronic human identification systems based on biometric characteristics — fingerprints, appearance, appearance of the iris, DNA, gait, handwriting, etc.), automated workplaces (in particular, the workstation of the investigator "Insight"), automated information retrieval systems and databases ("Investigative Practice", "Investigative Precedent", etc.), etc. [9, c. 40].

In this regard, the use of *nanotechnology for criminalistic purposes*, in particular, the development of innovative methods and technologies that expand the possibilities of human identification in genotypic examination are of scientific and practical interest.



The development of a biochip, which allows to establish the identity of the subject on a tiny trace of DNA with a probability of 99.6%, allows today to identify individuals when detecting at the scene, say, crumpled napkin or cigarette butt with a small amount of saliva, which was impossible before.

In this context, relevant in the field of criminalistic technique are *research and retrieval of ideal traces in human memory with the help of technical-criminalistic means*. Innovative means and technologies are: the use of computer polygraph, "PhotoRobot", digital photography, audio and video recording, spectrograph, unmanned aerial vehicles, surveillance and video surveillance systems, etc. So, in our opinion, the statements of some scientists and practitioners that research in the field of using technical means such as a polygraph to diagnose the information state of the individual is quite reasonable [10, c. 338].

Recently, along with traditional means of detection, fixation, retrieval, as well as the study of material traces and the situation in general, an innovative and very promising area is the active use of *modern three-dimensional digital technologies and artificial intelligence*, which aims to create visualization and reconstruction of circumstances and pictures of the crime or its individual episodes (details) using 3D models. Practice shows that law enforcement officers are increasingly faced with the need to study and record material objects located in large areas — the consequences of criminal explosions, fires, accidents and catastrophes on various modes of transport, man-made disasters. For the reconstruction of the scene, the method of laser scanning of certain objects and their reproduction in the form of 3D-visualization systems is becoming more widespread, which allows to capture and reconstruct in millimeter details the scene and its individual objects in three-dimensional space, which is not possible when using conventional means and methods of research of these objects. This makes it possible to investigate and use important criminalistic information during the investigation of criminal offenses and subsequently in the trial of criminal proceedings. The use of laser scanning of terrain and objects, which results in a 3D model, allows to increase several times the informativeness of the data collected at the scene, provides



a clear and convenient visualization in three dimensions, which allows to achieve high illustrative quality [11;12].

Investigating the role of criminalistic technique in combating crime, V.Yu. Shepitko points out that at the present stage the use of the latest scientific-technical means and technologies is proposed in the investigative activity: audio, video control, surveillance systems, digital photography and video recording, electronic controllers, unmanned aerial vehicles (UAVs) — quadcopters and criminalistic aerial photography. There are certain peculiarities in the introduction of innovations and in the application of criminalistic means and technologies in remote pre-trial proceedings, during interrogation, identification by videoconference, presentation for identification of a person outside of his visual and audio surveillance, etc. The use of the latest scientific-technical means is quite important when conducting unspoken investigative (search) actions: removal of information from transport telecommunications networks, removal of information from electronic information systems, inspection of public places, housing or other property, locating electronic means, monitoring person, thing or place, audio, video control of a person or audio, video control of a place, etc. [13, c. 146]. To increase the efficiency of this direction of activity, it is necessary to make greater use of geodetic satellite systems and aerial photography, carried out with the help of unmanned aerial vehicles. [14].

In our opinion, a promising area in criminalistics is the use of innovative means and technologies of criminalistic technique in various areas of law enforcement, expanding the application of criminalistic knowledge in various types of legal practice, which in today's reality is quite relevant and requires further research [15; 16;17; 18; 19]. We are talking about the possibility of using criminalistic technique in court proceedings, in criminal and civil proceedings, administrative proceedings, in the prosecutor's office, advocacy and notarial activities [20, c. 43] etc. In our opinion, this shows a manifestation of another important trend in the development of modern criminalistics — the expansion of the application of criminalistic knowledge from the sphere of combating crime to law enforcement and other activities [21, c. 158; 22; 23].

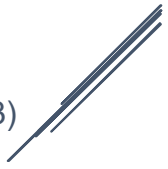
Conclusions. In view of the above, we can conclude that improving the efficiency and quality of the investigation is inextricably linked with the active introduction into investigative practice of modern advances of science and technology. One of the most important tasks of further development of criminalistics is to improve the structure of criminalistic technique in view of the emergence, development and current state of certain innovative areas of this branch of criminalistics[24]. As practice shows, a promising area of research in modern criminalistics is the study of non-traditional branches of criminalistic technique (criminalistic odorology, phonoscopy, polygraphology, etc.). To a large extent, they determine the innovative directions of modern criminalistic research in the field of criminalistic technique[25; 26]. The purpose of the use of criminalistic technique is to identify and study the reflections (traces) of a criminal event and extract evidence from them. Therefore, the successful and skillful use of innovative means of criminalistic technique ensures the completeness, accuracy, efficiency and effectiveness of the investigation and trial, contributes to the optimization of these activities and the solution of the main tasks of criminal proceedings.

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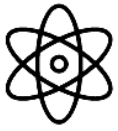
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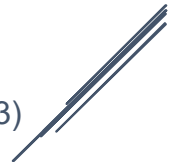
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TABLE OF CONTENTS


BUSINESS ECONOMICS			
Искаков А.К.		ПРЕИМУЩЕСТВА И НЕДОСТАТКИ ГОСУДАРСТВЕННО-ЧАСТНОГО ПАРТНЕРСТВА В ЗДРАВООХРАНЕНИИ	7
Eraliev A.A. Umurzakova Z.S.		ЗНАЧЕНИЯ УДОВЛЕТВОРЕНИЯ ПОТРЕБНОСТЕЙ СОТРУДНИКОВ В ПОВЫШЕНИИ ЭКОНОМИЧЕСКОЙ ЭФФЕКТИВНОСТИ ПРЕДПРИЯТИЙ	12
REGIONAL ECONOMY			
Khilchevska I. Kholodko A.		THE IMPACT OF COVID-19 ON ACHIEVING SUSTAINABLE DEVELOPMENT GOALS	16
INTERNATIONAL ECONOMICS AND INTERNATIONAL RELATIONS			
Abdallakh L.N.		INTERNATIONAL ECONOMIC COOPERATION AS AN APPROACH TO ACHIEVING SUSTAINABLE DEVELOPMENT GOALS	25
Abramova M.		THE COMPARISON OF SOME ECONOMETRIC APPROACHES THAT CAN BE USED TO STUDY ECONOMIC PROCESSES	31
Полупан М.О.		ПІДҐРУНТЯ ДЛЯ ЕФЕКТИВНОГО ВПРОВАДЖЕННЯ ЕЛЕКТРОННИХ ВИБОРІВ ТА ІНТЕРНЕТ-ГОЛОСУВАННЯ ЯК КЛЮЧОВИХ ІНСТРУМЕНТІВ Е-ДЕМОКРАТІЇ	41
MANAGEMENT			
Гарбовський Б.К. Тарасюк М.В.		ВПРОВАДЖЕННЯ ІННОВАЦІЙНИХ ТЕХНОЛОГІЙ В МЕНЕДЖМЕНТІ ОРГАНІЗАЦІЇ	50
Овечька О.В. Перегіняк Н.В.		ДОСЛІДЖЕННЯ ПОТЕНЦІАЛУ КОМПАНІЇ «ГУДВЕЛЛІ УКРАЇНА» З ВИКОРИСТАННЯМ SWOT- АНАЛІЗУ	59
MARKETING, ADVERTISING AND PR			
Demko M.Y.		CURRENT STATE OF ADVERTISING ACTIVITY OF COMMERCIAL BANKS OF UKRAINE	62
ACCOUNTING AND AUDITING			
Yuldashev B.T.		PROCEDURES FOR CONDUCTING INTERNAL AUDITS IN BUDGET ORGANIZATIONS	69
PEDAGOGY AND EDUCATION			
Hurin R.S.		SOME INDICATORS OF THE FUTURE PHYSICAL EDUCATION TEACHERS' PREPAREDNESS FOR PROFESSIONAL ACTIVITY	79
Умурова Ш.Ш. Амонова М.М.		СРАВНИТЕЛЬНЫЙ АНАЛИЗ ОСОБЕННОСТЕЙ ИСПОЛЬЗОВАНИЯ В E-LEARNING ZOOM	82
Брусник Ю.М. Морозова О.О.		AR-ТЕХНОЛОГІЯ ЯК ІНСТРУМЕНТ ОСВІТЬОГО ПРОЦЕСУ	87

Єфіменко В.М. Заворотна Л.К.		ДО ПРОБЛЕМИ ОРГАНІЗАЦІЇ РУХОВОЇ АКТИВНОСТІ ДІТЕЙ В ЗАКЛАДАХ ДОШКІЛЬНОЇ ОСВІТИ	94
Кошель В.М. Іващенко С.Б.		ДО ПРОБЛЕМИ СТВОРЕННЯ ІМІДЖУ ЗАКЛАДУ ДОШКІЛЬНОЇ ОСВІТИ	99



POLITICAL SCIENCE AND PUBLIC ADMINISTRATION

Іванова О.В.		АДМІНІСТРАТИВНЕ ПРАВО, ЯК РЕГУЛЯТОР СУСПІЛЬНИХ ВІДНОСИН У СФЕРІ ДЕРЖАВНОГО УПРАВЛІННЯ	104
--------------	---	---	-----






PSYCHOLOGY AND PSYCHIATRY

Оверчук В. Красильникова І.		ПРОБЛЕМА ПРОФЕСІЙНОГО ВИГОРЯННЯ МЕДИЧНИХ ПРАЦІВНИКІВ В УМОВАХ КАРАНТИННИХ ОБМЕЖЕНЬ УКРАЇНИ	108
--------------------------------	---	--	-----




PHILOLOGY AND LINGUISTIC

Kurbanov E.E. Zahiriddin M.B.		SPEECH IMPACT AS A COMMUNICATIVE ACT	113
Карпенко М.Ю.		ДЕЯКІ АСПЕКТИ ВЖИВАННЯ ГІПНОСТИЛІСТИЧНИХ ШАБЛОНІВ В АНГЛОМОВНОМУ ГІПНОТИЧНОМУ ДИСКУРСІ	116


LAW AND INTERNATIONAL LAW



Cisko Lukáš		CONCLUSION OF AGREEMENTS ON SUPPORT AND MUTUAL PROTECTION OF INVESTMENTS	120
Shevchuk V. M.		PROSPECTS AND INNOVATIONS RESEARCH OF CRIMINALISTIC TECHNIQUE	126
Мудряк М.О.		ОКРЕМІ ПИТАННЯ ПРАВОВОГО ЗАБЕЗПЕЧЕННЯ ІНФОРМАЦІЙНОЇ БЕЗПЕКИ ПІДПРИЄМСТВА У КОНКУРЕНТНИХ ВІДНОСИНАХ: РОЗВІДКА І ПРОМИСЛОВЕ ШПИГУНСТВО	136
Петросова Л.О.		МІЖНАРОДЖНІ СТАНДАРТИ У СФЕРІ ОХОРОНИ АТМОСФЕРНОГО ПОВІТРЯ	144
Копиця Є.М. Пуляєва А.О.		МІЖНАРОДНА СТАНДАРТИЗАЦІЯ ЯКОСТІ ВОДИ	149

BIOLOGY AND BIOTECHNOLOGY


Глухова Н.А.		РЕЗУЛЬТАТИВНОСТЬ МЕТОДОВ СОЗДАНИЯ ЛИНИЙ-ВОССТАНОВИТЕЛЕЙ ФЕРТИЛЬНОСТИ РАПСА ОЗИМОГО	153
Зиганшина Э.Э. Белостоцкий Д.Е. Зиганшин А.М.		АНАЭРОБНАЯ КОНВЕРСИЯ БИОМАССЫ МИКРОВОДОРОСЛЕЙ CHLOROPHYTA И ОТХОДОВ ЖИВОТНОВОДСТВА В БИОГАЗ	159
Мазур З.О.		ПОРІВНЯЛЬНА ХАРАКТЕРИСТИКА КІЛЬКІСНИХ ОЗНАК БАТЬКІВСЬКИХ ФОРМ ТА КРАЩИХ ГІБРИДІВ ЖИТА ОЗИМОГО	162

MEDICINE AND PHARMACY


Древаль М.В. Павлова О.О.		БІОРИТМИ ТА ЇХ ВПЛИВ НА ЗДОРОВ'Я І РОБОТУ В НІЧНІ ЗМІНИ	171
------------------------------	---	---	-----

Ткаченко Е.В. Прилуцкий М.К.		МЕТАБОЛИЧЕСКИЙ СИНДРОМ В ТИПОЛОГИЧЕСКИХ АСПЕКТАХ	175
Шалин В.В. Колосунин И.А. Гечас А.А. Шалин В.А. Шалина С.В.		МЕТОДЫ МОДЕЛИРОВАНИЯ В АНАТОМИИ ЧЕЛОВЕКА	179



PHYSICS AND MATHS

Шовак А.П.		ВИКОРИСТАННЯ СЕРВІСУ GEOGEBRA У ПРОЦЕСІ НАВЧАННЯ УЧНІВ З МАТЕМАТИКИ В ОСНОВНІЙ ШКОЛІ	185
------------	---	--	-----


AGROTECHNOLOGIES AND AGRICULTURAL INDUSTRY

Бутенко А.О. Протовень В.В. Харченко В.В. Ткаченко М.М. Чалий О.О. Стегній Е.В.		ВПЛИВ ЕЛЕМЕНТІВ ТЕХНОЛОГІЇ ВИРОЩУВАННЯ НА ПРОДУКТИВНІСТЬ СОРТІВ ГРЕЧКИ	188
--	---	--	-----



LIGHT INDUSTRY AND FOOD INDUSTRY

Ponomarov P.Kh. Kolomiets O.M.		RECONSTRUCTION OF UKRAINIAN-BRITISH INTERCULTURAL COMMUNICATION DURING THE PROCESS OF COMMUNICATION OF NATIONAL BRITISH DISHES CHOICE	192
Марйоха І. М. Федорова Н. В. Романова З.М.		АНАЛІЗ ТА ПІДБІР РОСЛИННОЇ СИРОВИНИ ДЛЯ ВИГОТОВЛЕННЯ НАПОЇВ ФУНКЦІОНАЛЬНОГО ПРИЗНАЧЕННЯ	196

GENERAL ENGINEERING AND MECHANICS

Джураев Ш.С.		РЕЗУЛЬТАТЫ ЭКСПЕРИМЕНТАЛЬНОГО ИССЛЕДОВАНИЯ ОПТИМАЛЬНЫХ ПАРАМЕТРОВ ТЕМПЕРАТУРЫ ВОДЫ ПРИ ПРИГОТОВЛЕНИИ ПИЩЕВЫХ ПРОДУКТОВ ГИДРОПОННЫМ МЕТОДОМ.	201
--------------	---	---	-----

INFORMATION AND WEB TECHNOLOGIES

Пилипчук Е.І. Литвин А.Ф. Великдан Ю.В.		ЗАСТОСУВАННЯ МУЛЬТИМЕДІЙНИХ ТЕХНОЛОГІЙ ПІД ЧАС НАВЧАННЯ СТУДЕНТІВ ВУЗІВ	205
Третьак В.Ф. Коломійцев О.В. Пічугін М.Ф. Деменко М.П. Запара Д.М. Савельев А.М.		РОЗРОБКА ПАРАЛЕЛЬНИХ АЛГОРИТМІВ РІШЕННЯ ЗАДАЧІ ФРАГМЕНТАЦІЇ РОЗПОДІЛЕНИХ БАЗ ДАНИХ	211



PHYSICAL EDUCATION AND SPORTS

Скирта О.С.



Лошицька Т.І.

Володченко О.А.

ПОРІВНЯЛЬНИЙ АНАЛІЗ ПРАВИЛ ПРОВЕДЕННЯ ЗМАГАНЬ В
РИНГ-РОЗДІЛАХ УКРАЇНСЬКОГО КІКБОКСІНГУ.

217