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В этом номере мы публикуем статьи победителей, призеров, а также отмеченных Конкурсной комиссией участников Всероссийского конкурса молодых ученых на лучшую научную статью в журнал «Эксперт-криминалист» имени профессора В.И. Комиссарова, проведенного в 2024 году.

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The Use of Neural Network Technologies in a Criminalistic Personality Study

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The article describes promising areas of the use of neural networks in a personality study: a psychological analysis of a personality based on a photo; an analysis of digital Internet profiles of users. It is shown that the use of neural networks in discovery of individual psychological features of a person based on a photo can become the basis for development of tactical methods of performance of certain investigative actions. It is justified that a study of digital Internet profiles can be used by an investigator to obtain primary information about a person and to develop further investigation tactics.

Keywords: personality, neural network technologies, criminalistic personality study, psychological analysis based on a photo, analysis of the digital profile.

Special Aspects of Cryptocurrency Treatment in Crime Investigation

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The article is dedicated to relevant aspects of investigation of crimes committed with the use of cryptocurrency. Provisions of applicable laws in the digital financial asset sphere are analyzed. Significant statutory and legal problems associated with the regulation of cryptocurrency turnover in the Russian Federation are studied. The main investigative actions to be performed in investigation of such crimes are reviewed. Examples from the investigative practice are given: attention is focused on special aspects of monitoring of transactions, examination, arrest and storage of cryptocurrency and its constituent parts in a criminal case.

Keywords: criminalistics, cryptocurrency, crypto wallet, investigation, corruption-related crimes.

The Problem of False Memories of a Witness and an Aggrieved in a Criminal Procedure

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The article reviews the problem of false memories that are sometimes developed by good faith witnesses and aggrieved. Special aspects and consequences of origination of such objective reality distortion are noted. Examples from the foreign and Russian practice are used to illustrate the matter. The authors of the article present results of their survey of employees of pre-trial investigation, prosecution authorities and judges on the level of awareness with regards to the existing problem. The possibility to neutralize the impact of false memories on establishment of the truth in criminal case proceedings is assessed.

Keywords: interrogation, false memories, memory, witness, aggrieved, testimony, criminal procedure.

Criminalistic Aspects of a Study of Post-Criminal Suicide in Cases on Mass Murders in Educational Institutions

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A post-criminal suicide in cases on mass murders in educational institutions is viewed in criminalistics from several angles: means of interference with an investigation; conduct-related incriminating evidence showing the causal relationship between a murder and a suicide; specific post-criminal conduct form. The author determines the tasks of the initial stage of investigation of mass murders in educational institutions. The paper notes special personality aspects of the attackers indicating the potential for being drawn to a destructive community and the related risk of aggressive conduct in the form of an armed assault. The author focuses on the obligatory demonstrative and symbolic character of violence present in mass murders and their communicative nature. A conclusion is made on the importance of analyzing the conduct of an individual for the purposes of identification of an intent to commit a mass murder with subsequent suicide.

Keywords: mass murders, murders in educational institutions, post-criminal suicide, conduct-related incriminating evidence, crime investigation, criminal's personality.

Forensic Examinations of Extremist Materials: Theoretical and Practical Problems, Solutions

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The authors have analyzed scientific publications and practice of performance of forensic examinations of extremist materials and describe some problems of performance of such examinations in the contemporary conditions. Special attention is paid to performance of a forensic linguistic and a complex psychological linguistic examination of complex objects (polycode and fiction texts). The issue of the methodological support of a theological examination is covered. The paper notes high load of experts of state expert institutions involved in performance of forensic examinations of extremist materials. Ways to solve existing problems are outlined.

Keywords: forensic examination, extremist materials, extremism, forensic linguistic examination, psychological linguistic examination, polycode text.

Special Prevention with the Use of Neural Networks

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New means of social community, whose full-fledged form can be stated by the end of the first quarter of the 21st century, are insufficiently used for general and special crime prevention. Meanwhile, social differentiation, preferences in social groups, and com-

mon motives for consolidation into such social groups can obviously be the subject of system analysis by neural networks. One of the results of such an analysis, if the task is properly formulated, should be expected to be the formation of a system of measures of social influence aimed at identifying individual causes of crime and their prevention. This direction is a promising vector both for identifying unique patterns of crime and for the purpose of forming prognostic models in relation to individual social groups.

Keywords: artificial intelligence, preventive measures, crime forecasting, fighting crime, forensic prevention.

Additive Technologies and a Possibility of Criminalistic Identification of 3D Printers

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Additive technologies are now being increasingly used in industry and everyday life. Implementation of such technologies with the help of 3D printers makes it possible to get items with a geometrical arrangement and attributes unattainable by using traditional technologies. The article describes attributes that characterize the printing technology and the possibility of its diagnostic study based on 3D models. The problem of individual identification of a 3D printer based on a 3D model is discussed.

Keywords: additive technologies, 3D printing, 3D printers, identification, diagnostics, printing parameters, 3D modeling, examination.

Special Knowledge in Review of Keystroke Dynamics

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Widespread use of digital technologies has led to the emergence of a problem in criminal proceedings related to the definition of the boundary where the area of general professional competence of an investigator ends and the area of special knowledge begins. This is also characteristic for the detection, fixation and investigation of keystroke dynamics. The article describes the competence of a specialist to detect this digital trace; the investigator's authority to obtain keystroke dynamics samples for comparative study and his duty to evaluate the results of such study; the algorithm of expert's actions in the production of computer-technical expertise of keystroke dynamics. As a result, the conclusion is formulated about the necessity of coordinated actions of the mentioned participants of criminal proceedings, as well as further study of issues in this area to reveal the depth of the forensic value of keystroke dynamics.

Keywords: computer forensics, special knowledge, digital traces, keystroke dynamics, keylogger.

New Facets of an Old Problem: Psychology at the Service of the Investigation Process

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The need to use knowledge from the psychological sphere in the investigation of crimes has never been denied. However, there still remains a multitude of facets of the problem that have not been highlighted yet or have been undeservedly overlooked. An analysis of special publications gives an opportunity to find a lot more inter-disciplinary connection points. This especially concerns special knowledge in the course of investigation of violent crimes committed by women. The mechanism of reasons and conditions that form and nourish female crime is diverse and differs substantially from what causes men to commit crimes. This makes it more difficult to investigate crimes committed by women.

Keywords: forensic psychological examination, psycho-traumatic situation, psychological contact, assessment of a psychologist's report, dictionary of psychological terms, female crime.

Criminalistic Prevention of Violation of Fire Safety Requirements at Facilities of Various Functional Fire Safety Classes

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The author attempts to specify the range of violations of fire safety requirements that pose a threat to human life and health in the event of a fire at facilities of various classes of functional fire hazard (with the exception of buildings, structures and fire compartments for industrial or warehouse purposes). Based on the analysis of technical literature, it is proposed to apply a methodology for determining the calculated values of fire risk as the main quantitative indicator characterizing the likelihood of a threat to life and health. The list of violations of fire safety requirements obtained during the study can be used for the purposes of forensic prevention and investigation of crimes provided for in Article 219 of the Criminal Code of the Russian Federation.

Keywords: crime prevention, forensic prevention, fire safety, violation of fire safety requirements, fire risk, threat to life and health.

Tactical Features of Interrogation of Witnesses and Aggrieved in Cases on Genocide of the Great Patriotic War Period

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The article reviews tactical and organizational features of interrogation of witnesses and aggrieved in cases on genocide of the Great Patriotic War period. The currently investigated crimes were committed more than half a century ago and present difficulties for investigators as none of them has a personal impression about the circumstances such crimes were committed in. Thus, preparation for each investigative action has to include a study of archive historical documents (including materials of the military tribunals of 1940 to 1950), memoirs, criminal cases on wrongdoings of the Nazi invaders. Tactical methods should be applied during interrogations considering senior years of the interrogated, the psycho-traumatic situation of obtainment of information on crimes by them, significant change of the area where the genocide took place.

Keywords: genocide investigation, Great Patriotic War, interrogation tactics, tactical methods, memory activation.