



ACADEMICIA
**An International
 Multidisciplinary
 Research Journal**
 (Double Blind Refereed & Peer Reviewed Journal)



DOI: 10.5958/2249-7137.2021.01656.6

SOME ASPECTS OF FORENSIC PERSONAL VOICE AND SPEECH IDENTIFICATION

Lyudmila Yuriyevna Yugai*

*Doctor of Philosophy (Ph.D.) in Juridical Science,
 Academy of the Ministry of Internal Affairs of the Republic of UZBEKISTAN

Email id: yugai.lyudmila@mail.ru

ABSTRACT

The article is devoted to the phonoscopic research issue. The historical review of the development of forensic voice and speech identification, starting with the first cases of using “aural-perceptual” testimony of a witness to the modern period of the introduction of artificial intelligence and neural networks, is covered in the article. To date, active developments are being carried out and automated systems are being introduced into practice for conducting phonoscopic studies. Modern problems of personal voice identification on digital phonograms are also covered. Appropriate recommendations and suggestions are proposed based on the analysis of specialized literature and expert practice.

KEYWORDS: *Phonoscope, Phonogram Authenticity, Artificial Intelligence, Sound, Personality Identification*

REFERENCES

1. *Vasiliev A.V.* Current issues of identification studies of the human voice and speech // Bulletin of the Academy of the Investigative Committee of the Russian Federation. – 2019. – No. 1. – P. 151-153.
2. *Hollien H.* The Acoustics of Crime: The New Science of Forensic Phonetics. – New York: Plenum Press, A Division of Plenum Publishing Corporation, 1990.
3. *Galyashina E.I.* The history of forensic phonoscopic examination // Bulletin of the University named after O.E. Kutafina. – 2014. – No. 3. – P. 181-195.
4. *Kopelev L.* Ease my sorrows. Memoirs. – M.: Slovo, 1991. – P. 110-145.
5. *Potter R.K.* Visible Patterns of Sound // Science 1945. No. 2654. November 9.

6. *Kaganov A.Sh.* Forensic examination of sound recordings. Monograph. – M.: Jurlitinform, 2005. P. 16 (272 p)
7. *Fant G.* Acoustic Theory of Speech Production / Translated from English L.A. Varshavsky, V. I. Medvedev / Ed. by V.S. Grigorieva. – M.: Nauka, 1964.
8. *Ramishvili G.S.* Speech signal and voice personality. – Tbilisi: Mitsniereba, 1976. – 183 p.
9. *Barkovskaya E.G.* Historical background and practical needs for the integration of biometric and forensic knowledge. – Philosophy of law. – 2010. - No. 6. – P. 28-31.
10. *Matveev Yu.N.* Technologies of biometric personal identification by voice and other modalities. Bulletin of the Bauman Moscow State Technical University. – 2012. – No. 3. – P. 46-61.
11. *Galyashina E.I.* Theoretical and applied foundations of forensic phonoscopic examination: Abstract. dis. ... doctor of juridical sciences. Voronezh, 2002. – P. 6-15.
12. Expert. Guide for experts of internal affairs bodies / Ed. by T.V. Averyanova, V.F. Statkusa. – M., 2003. – P. 387-394.
13. *Chernyshova E.* Biometrics in banks: what is it, why and what it will lead to [Electronic resource] – Access mode: <https://trends.rbc.ru/trends/industry/5fd3ac6a9a79475333bfc4f>. – Date of access: 20.02.2021.
14. *Lebedeva A.K.* Problems of the production of forensic phonoscopic examination in the light of the development of digital technologies // Bulletin of the Kutafin Moscow State Law University. – 2020. – No. 6. – P. 62-71.
15. *Belykh Yu.L.* Forensic investigation of audio documents (procedural and forensic aspect) // Forensic expert. – 2006. – No. 4. – P. 24.
16. *Galyashina E.I.* Forensic phonoscopic examination: problems of diagnosing the authenticity of phonograms // Bulletin of the Kutafin Moscow State Law University. – 2014. – No. 3. – P. 15-26.
17. *Galyashina E.I.* Forensic speech: Textbook. – M., 2020. – P.214.
18. *Kaganov A.Sh.* Forensic personal voice and speech identification as an integral scientific and expert study // Philological Sciences. Theory and practice. – 2019. – Volume 12. – Issue 6. – P. 246-250.