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4. **APPLICATION OF A NEURAL NETWORK**
5. **APPROACH TO SOLVING USER AUTHENTICATION PROBLEMS**
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12. *One of the most effective methods for ensuring information security today is the construction of effective user authentication procedures. To successfully solve the information security problem, an integrated approach to user identification is required. One of the ways is the collection and processing of biometric data about a specific user. The use of a neural network approach provides both a sufficiently high level of user recognition and a fairly convenient algorithmic implementation.*
13. *As a result of a practical experiment on test examples, it was revealed that the proposed method of using neural networks is effective, secure, increases the reliability of recognition and is recommended for implementation in small businesses.*
14. **Keywords:** neural networks, face recognition, gesture recognition, Viola – Jones method, Haar features, corrective algorithms.
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