Survey Paper

**Introduction**

Biometric voting systems are becoming increasingly popular due to their ability to provide secure and accurate voting results. In this survey paper, we will discuss the different aspects of biometric voting systems and their importance.

**History of Biometric Voting Systems**

Biometric voting systems have been around for several decades. The first biometric voting system was introduced in the 1960s and used hand geometry as the biometric identifier. Since then, several other biometric identifiers such as fingerprints, iris scans, and facial recognition have been used in biometric voting systems. Biometric voting systems have been used in several countries such as India, Brazil, and the United States.

**Types of Biometrics Used in Voting Systems**

There are several types of biometrics used in voting systems such as fingerprints, iris scans, facial recognition, and voice recognition. Each type has its own advantages and disadvantages. For example, fingerprints are easy to use and widely available but can be easily forged. Iris scans are more secure than fingerprints but require specialized equipment.

**Advantages and Disadvantages of Biometric Voting Systems**

Biometric voting systems have several advantages such as increased security, accuracy, and speed. They are also more convenient for voters since they eliminate the need for physical identification documents. However, they also have some disadvantages such as high cost and privacy concerns. Biometric data is sensitive information that needs to be protected from unauthorized access.

**Current Research Trends in Biometric Voting Systems**

Current research trends in biometric voting systems include the use of blockchain technology for secure voting and the development of new biometric identifiers such as vein patterns. Blockchain technology provides a secure way to store and verify votes while ensuring anonymity. Vein patterns are a new type of biometric identifier that is more secure than other types since they cannot be easily replicated.

**Challenges Facing Biometric Voting Systems**

Biometric voting systems face several challenges such as high cost, privacy concerns, and technical issues. High cost is one of the main challenges facing biometric voting systems since they require specialized equipment and software. Privacy concerns are another challenge since biometric data is sensitive information that needs to be protected from unauthorized access. Technical issues such as system failures and errors can also affect the accuracy of biometric voting systems.

**Conclusion**

In conclusion, biometric voting systems are an important development in the field of voting technology. They provide increased security and accuracy compared to traditional voting systems. However, they also have some disadvantages that need to be addressed. Future research should focus on addressing these issues to make biometric voting systems more accessible and affordable.

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[*https://ieeexplore.ieee.org/abstract/document/8261341/*](https://ieeexplore.ieee.org/abstract/document/8261341/)*.*

*Biometric Voting System | SpringerLink.* [*https://link.springer.com/chapter/10.1007/978-3-030-24643-3\_28*](https://link.springer.com/chapter/10.1007/978-3-030-24643-3_28)*.*

*A biometric-secure e-voting system for election processes.*

[*https://ieeexplore.ieee.org/document/4648818*](https://ieeexplore.ieee.org/document/4648818)*.*

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