IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 10, May 2023

Smart Voting System using Face Recongnition

Dr. Madhusudhan G K¹, Sagarshrishail Indi², Shashank T R³, Chethan M D⁴, Vinayak R Melagiri⁵

Professor, Department of Computer Science and Engineering¹ Students, Department of Computer Science and Engineering^{2,3,4,5} VidyaVikas Institute of Engineering and Technology, Mysore

Abstract: In todays digital age facial recognition has emerged as an incredibly powerful tool for identifying individuals via their unique facial characteristics. Building on this idea we are examining ways to integrate these technologies into the realm of secure voting methodology using advanced algorithms including Haarcascade and RBF algorithm. Our proposed system includes three layers of identity validation: UID confirmation, validating voter card numbers and using cutting edge techniques to analyze specific elements in voters' faces during authentication processes

Keywords: UID, RBF, EVM

REFERENCES

[1] Shrivastava, Vishesh, and GirishTere. \"An analysis of electronic voting machines for their effectiveness.\"International Journal of Computing Experiments (IJCE) Vol 1 (2016): 8-12.

[2] Abdulhamid, S. M., Adebayo, O. S., Ugiomoh, D. O., &AbdulMalik, M. D. (2013). The Design and Development of Real-Time E-Voting System in Nigeria with Emphasis on Security and Result Veracity. International Journal of Computer Network and Information Security,5(5),9–18. <u>https://doi.org/10.5815/ijcnis.2013.05.02</u>

[3] Hazzaa, F. I., Kadry, S., &Zein, O. K. (2012). Web- Based Voting System Using Fingerprint: Design and Implementation. II [4] 404–409.

[4] Nautiyal, J. (2013). An Automated Technique for Criminal Face Identification Using Biometric Approach. 2013(Cac2s), 608-611.

[5] Patel, C. I., & Patel, R. (2013). Robust Face Recognition Using Distance Matrix. International Journal of Computer and Electrical Engineering,5(4),401–404. <u>https://doi.org/10.7763/ijcee.2013.v5.740</u>

[6] Yamini, K., Kumar, S. M., Sonia, S., Yugandhar, P. V, &Bharath, T. (2019). Class Attendance Using Face Detection and Recognition with OPENCV. 3822–3826.

[7] Soomro, Z. A., & Ali, A. (2020). FPGA based real- time face authorization system for electronic voting system.

[8] Kavitha, S. N. (n.d.). Biometrics Secured Voting System with Fingerprint, Face and Iris Verification. 743–746.
[9] Wagner, P. (2012). Face Recognition with Python. 1–16.

[10] P, J. I. P., Kishorit, K. R., Ganesh, B., Gokulprashanth, P., &Udhayakumar, G. (2018). Electronic Voting Machine with Facial Recognition and Fingerprint Sensors. 3, Hazzaa, F. I., Kadry, S., &Zein, O. K. (2012). WebBased Voting System Using Fingerprint: Design and Implementation. II(Iv), 404–409.

