

{tag}

{/tag}

IJCA Proceedings on National Conference on
IPR, Future Technology, Optimization and Management

© 2018 by IJCA Journal

NCIFTOM 2016 - Number 1

Year of Publication: 2018

Authors:

Santosh Verma

Vinish Kumar

{bibtex}NCIFTOM201602.bib{/bibtex}

Abstract

There is a population of over 37 million people in the world that is visually impaired (VI). With the continuous advancement in technology, it's now possible to build viable technological solutions to help such disadvantaged people in their day to day life. In this paper we propose a solution that shall help visually impaired people identify Indian Currency notes which shall then simplify monetary transactions for them. The method proposed includes image processing techniques which have been elaborated in this paper.

Refer

ences

- Grijalva, F. ; Rodriguez, J. C. ; Larco, J. ; Orozco, L. , "Smartphone recognition of the U. S. banknotes' denomination, for visually impaired people," ANDESCON, 2010 IEEE , vol. , no. , pp. 1-6, 15-17 Sept. 2010.
- Rbi. org. in, 'Reserve Bank of India - Banknotes', 2015. [Online]. Available: <https://www.rbi.org.in/currency/banknotes.html>. [Accessed: 30- Apr- 2015].
- Aggarwal, H. ; Kumar, P. , "Indian Currency Note Denomination Recognition in Color Images," International Journal on Advanced Computer Engineering and Communication Technology (IJACECT), vol. 1, no. 1, pp. 12-18, 2012
- Er-Hu Zhang; Bo Jiang; Duan, Jing-hong; Zheng-Zhong Bian, "Research on paper currency recognition by neural networks," Machine Learning and Cybernetics, 2003 International Conference on , vol. 4, no. , pp. 2193-2197, 2-5 Nov. 2003
- Chakraborty, K. ; Mukherjee, S. ; Dasgupta, D. ; Basumatary, J. ; Kalita, J. C. , "Robust Framework for Indian Currency Denomination Recognition for Visually Impaired," ADBU Journal of Engineering Technology (AJET),vol. 1, no. 1, pp. 7-11, 2014
- Junfang Guo; Yanyun Zhao; Cai, A. , "A reliable method for paper currency recognition based on LBP," Network Infrastructure and Digital Content, 2010 2nd IEEE International Conference on , vol. , no. , pp. 359-363, 24-26 Sept. 2010
- Rother, C. ; Kolmogorov, V; Blake, A. , ""GrabCut"; interactive foreground extraction using iterated graph cuts," ACM Trans. Graph, vol. 23, no. 3, pp. 309-314, Aug 2004.
- Verma, S. ; Goel, S. , "An empirical evaluation of wavelets based viz-a-viz classical state-of-art to image denoising," Contemporary Computing (IC3), 2013 Sixth International Conference on, IEEE , vol. , no. , pp. 331-336, 8-10 Aug. 2013
- Verma, S. ; Vinish, K. ; Sirohi, A. , "Background Substraction Techniques," International Symposia ISAC-2011 , vol. , no. , 2011
- Kumar Jain, V. ; Vijay, R. , "Indian Currency Denomination Identification Using Image Processing Technique," International Journal of Computer Science and Information Technologies (IJCSIT), vol. 4, no. 1, pp. 126-128, Jan-Feb 2013
- Alekhya, D. ; Surya Prabha, G. ; Durga Rao, G. , "Fake Currency Detection Using Image Processing and Other Standard Methods," International Journal of Research in Computer and Communication Technology (IJRCCT), vol. 3, no. 1, pp. 128-131, Jan 2011

Index Terms

Computer Science

Image Processing

Keywords

Currency Denomination; Image Processing; Recognition