

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

Volume 2, Issue 2, February 2022

Implementation of Mobile Object Recognition with its Enhancement of Image Segmentation and Edge Detection Techniques

Mr. Kommu Naveen¹ and Dr. R.M.S Parvathi²

Ph.D Scholar, Department of Electronics and Communication Engineering¹ Professor and Head, Department of Computer Science and Engineering² Anna University, Chennai, Tamilnadu, India¹ Sri Ramakrishna Institute of Technology, Coimbatore, Tamilnadu, India² naveenkarunya@gmail.com¹, parvathirms@gmail.com²

Abstract: Different methods employed for object detection are widely exploited covering application areas such as traffic monitoring, video surveillance and capturing various human activities and motion. The traditional methods that have earlier been proposed for detection are found to be beneficial if the detected object is properly identified. Moreover, minimizing the effect of dynamic changes as well as development of the algorithm which is robust of intensity variation is a challenging task. So this paper emphasizes on enhancement followed by detection which objects. The task of detection was performed on a video using simple detectors and developing an approach for proper segmentation of moving objects. Moving body was detected from a video having a frame rate of 25 frames per second, total bit rate of 234 kbps and having 160x112 as frame width and height. Further operation of enhancement and detection was processed on MATLAB R2021b tool.

Keywords: Segmentation, Detection, Dimensions and Enhancement

REFERENCES

- [1]. A.L. Bravo, J.D. Carmona, A.R. Agundis, A.P. Medina and J.P.Olivarez, "FPGA-based video System for real time moving objectdetection," IEEE International Conference on Electronics, Communications and Computing, vol. 2, no. 97, pp.467-615, March2013.
- [2]. M. Liu, C. Wu and Y. Zhang, "A review of traffic visual trackingtechnology," IEEE International Conference on Audio, Language and Image processing, vol. 7, no. 97, pp.172-424, July 2008.
- [3]. S.Z.J. Gao, "Research on Object-based Video Segmentation," IEEE International Conference on Computer Science and Electronics Engineering, vol.1, pp. 519-522, March 2012.
- [4]. Manvi, R.S. Chauhan and M. Singh, "Image contrast enhancement using histogram equalization," International Journal of Computing & Business Research, I-Society12, no. 33, 2012.
- [5]. K.K. Hati, P.K. Sa, and B. Majhi, "LOBS: Local Background Subtractor for Video Surveillance," IEEE International conference onAsia Pacific Conference on Postgraduate Research in Microelectronics and Electronics, pp. 29-34, Dec. 2012.
- [6]. Z. Hu,Y. Wang, Y. Tian, T. Huang, "Selective Eigen backgrounds method for background subtraction in crowed scenes"



Copyright to IJARSCT www.ijarsct.co.in

BIBLIOGRAPHY

Mr. Kommu Naveen Ph.D Scholar in the Department of Electronics and Communication Engineering at Anna University, Chennai, Tamilnadu India. He has vast teaching and research experiences in Engineering and Technology. He has published more than 12 research articles in various journals in National and International level. He has attended 3 National and 6

IJARSCT



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

Volume 2, Issue 2, February 2022

International Conferences. In His credit as an Author for 2 Text books which are useful for engineering students under JNTUH and Anna University. He has attended 3 Short Term Training Programs[STTPs] at JNTUH HRDC and attended more than 12 Faculty Development Programs in India. He has Organized Workshops and Symposiums, National and International conferences. He worked in Engineering colleges and Universities at various capacities. He has done the 4 Courses of NPTEL/SWAYAM-UGC. His research interested areas are Embedded Systems, Digital Image Processing, Internet of Things, Deep Learning and Machine Learning. He is a member in professional societies like ISTE, IAEng and Indian Science Congress etc.. IEEE Member in Hyderabad Chapter.



Dr. R.M.S. Parvathi completed her B.E (ECE) and M.E (CSE) from Government College of Technology, coimbatore. She completed PhD in the year 2004 from Bharathiar university, in the area of Object oriented software Engineering. She 8a an approved Supervisor under the faculty of ICE, Anna university, chennai. Under her guidance, sofar 18 scholar completed doctorate. She is having total technical teaching experience of 34 years which includes Principal of Sengunthar college of Engineering ,Namakkal as founder Principal for a period of 8 years. She is currently associated with Sri Ramakrishna institute of technology, Coimbatore since 2015, as Professor &Dean-PG and Head-CSE. She has published more than 70 Research Articles in various National and International Journals. She has attended more than 50 Conferences in National and International level. She has organized many Seminars, Conferences, Workshops and Symposiums in National and International level. She has achieved many meritorious awards and recognitions from state and central Governments. She is a life member in Professional bodies like LMISTE, LMBMESI and LMIE...i.e