A Pose based Object Recognition Model for Improving Learning Time and Accuracy

International Journal of Computer Applications © 2015 by IJCA Journal

Volume 113 - Number 3
Year of Publication: 2015

Authors:
Ankur Chauhan
Sanjay Kumar

10.5120/19809-1602

Abstract

Now in these days the computational domain contributes in a different intelligence applications such as decision making, data analysis, and face recognition and pattern detection. These applications are supporting in various real world applications. In this paper, the pattern analysis and pattern discovery task is discussed for object recognition application. Object recognition is a computational process where using the visual features are utilized for approximating the actual real world objects. In literature there are a number of object recognition models are available, those are promises to provide accurate object detection. But most of them are only produces 40-50% accurate results. In this paper basically different object recognition models are discussed which are providing guidelines for obtaining accurate model. In addition of that this paper addresses the real world issues which are required to involve for future object recognition model.

References

- R. Lefort, R. Fablet and J. -M. Boucher, "Object recognition using proportion-based prior information: Application to fisheries acoustics", Pattern Recognition
Letters January 2011, Volume 32, Issue 2, Pages 153-158
- Zhangzhang Si and Song-Chun Zhu, "Learning AND-OR Templates for Object Recognition and Detection", IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, VOL. 35, NO. 9, SEPTEMBER 2013
- Canny Edge Detection, March 23, 2009
- Zhenhua Guo, Lei Zhang, David Zhang, "A Completed Modeling of Local Binary Pattern Operator for Texture Classification", IEEE transaction on image processing, 2010
- Bangpeng Yao, Li Fei-Fei, "Modeling Mutual Context of Object and Human Pose in Human-Object Interaction Activities", 2010 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- Kevin Lai, Liefeng Bo, Xiaofeng Ren, Dieter Fox, "A Scalable Tree-Based Approach for Joint Object and Pose Recognition", Proceedings of the Twenty-Fifth AAAI Conference on Artificial Intelligence

Index Terms

Computer Science

Image Processing
Keywords
  Object recognition  review  accurate modeling  issue and challenges  proposed model.