

# A novel approach to solve the Waldo puzzle

Aswanth P P, Mohammed Ameen, Joe Antony and Shashidhar G. Koolagudi

Department of Computer Science and Engineering  
National Institute of Technology Karnataka, Surathkal

**Abstract**—This paper explains an approach to solve the Waldo puzzle by using machine learning concepts. The Waldo Puzzle consists of a picture or an image with a lot of different characters and objects. The objective is to locate the position of a certain character named Waldo in the image. The difficulty of the puzzle is usually high, and it generally takes a considerable amount of time to find him using the naked eye. Through machine learning, and using object detection strategies, we locate Waldo in the order of a few seconds, making it a much more effortless approach.

**Keywords**—*Machine Learning, Template Matching, Object Detection, Tensorflow*

## REFERENCES

- [1] Xianghua Fan, Fuyou Zhang, Haixia Wang and Xiao Lu , *The System of Face Detection Based on OpenCV*