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Redefining Object Detection for Open-World Settings: A Framework for Simultaneous Identification of Known and Unknown Classes

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ABSTRACT Traditional closed-world object detection methods are limited to a predefined set of classes and struggle to recognize objects beyond these boundaries. This work proposes an improved Open-World Object Detection (OWOD) methodology that supports the identification and Incremental Detection of both known and unknown objects. Existing OWOD methods typically face uncertainties due to the adoption of complex and ambiguous strategies for discovering the unknown objects. Such approaches lower the detection accuracy of the known classes. To effectively tackle these challenges, this study presents a new Open-World Novelty and Outlier Detection (OWNOD). The framework integrates a dynamic thresholding mechanism a customized loss function and statistical verification technique optimize the simultaneous detection of both known and unknown objects. By combining these approaches, OWNOD enhances the balance between identifying new, unseen objects and maintaining accuracy for previously learned classes, effectively addressing the inherent complexities of open-world object detection. We benchmark against state-of-the-art methods, that includes the baseline ORE and ABLTL. We also report significant improvements across multiple metrics. For instance, in Task 1, K-mAP improved by 3.10 points, U-mAP by 2.20 points, and U-Recall by 9.50 points. In Task 2, K-mAP improved by 5.65 points, U-mAP by 2.43 points, and U-Recall by 2.46 points. In Task 3, we achieved gains of 4.14 points for K-mAP, 0.34 points for U-mAP, and 6.62 points for U-Recall. For Task 4, where all classes are known, we report a K-mAP improvement of 5.89 points, demonstrating the robustness and effectiveness of our model.

INDEX TERMS Open-World Object Detection, Region of Interest, Region Convolutional Neural Network.

I. INTRODUCTION

Deep learning models have played a significant role in the development of advanced object detection models [1], [2], [3] substantially increasing the potential applications of these models in fields such as autonomous driving, crowd control, visual reasoning, and visual question answering. However, traditional deep learning-based object detection approaches work under a static and closed-world approach, meaning only a predetermined labelled set of classes are detected and evaluated. On the contrary, it is highly likely that in real-world scenarios, the model may encounter instances of unknown classes that are simply ignored or misclassified as any set of learned known classes. Humans have the natural tendency

to distinguish the known classes from the unknown and incrementally update their knowledge base as new labels are available for the unknown classes later. Open-world object detection is aimed at reducing the perceptual gap between humans and machines, hence highlighting the critical need for ongoing research in this area.

Open-World Object Detection (OWOD) aims to extend traditional object detection by enabling the identification of both known and unknown objects in dynamic environments. However, existing OWOD approaches often struggle to maintain a balance in detection accuracy between known and unknown classes. This challenge arises largely due to their reliance on complex strategies for discovering unknown

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Table of Contents Redefining The Object

1. Understanding the eBook Redefining The Object
 - The Rise of Digital Reading Redefining The Object
 - Advantages of eBooks Over Traditional Books
2. Identifying Redefining The Object
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Redefining The Object
 - User-Friendly Interface
4. Exploring eBook Recommendations from Redefining The Object
 - Personalized Recommendations
 - Redefining The Object User Reviews and Ratings
 - Redefining The Object and Bestseller Lists

5. Accessing Redefining The Object Free and Paid eBooks
 - Redefining The Object Public Domain eBooks
 - Redefining The Object eBook Subscription Services
 - Redefining The Object Budget-Friendly Options
6. Navigating Redefining The Object eBook Formats
 - ePub, PDF, MOBI, and More
 - Redefining The Object Compatibility with Devices
 - Redefining The Object Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Redefining The Object
 - Highlighting and Note-Taking Redefining The Object
 - Interactive Elements Redefining The Object
8. Staying Engaged with Redefining The Object
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Redefining The Object
9. Balancing eBooks and Physical Books Redefining The Object
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Redefining The Object
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Redefining The Object
 - Setting Reading Goals Redefining The Object
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Redefining The Object
 - Fact-Checking eBook Content of Redefining The Object
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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