

S.NO	PROJECT TITLES	DOMAIN	Existing Algorithms	Proposed Algorithms	Extension Algorithms
1	Automated Road Damage Detection Using UAV Images and Deep Learning Techniques	Yolo	Yolo v5	Yolo v7	Yolo v8
2	Experimental Study on YOLO-Based Leather Surface Defect Detection	Yolo			
3	Lightweight Attention-Guided YOLO With Level Set Layer for Landslide Detection from Optical Satellite Images	Yolo			
4	IL-YOLO An Efficient Detection Algorithm for Insulator Defects in Complex Backgrounds of Transmission Lines	Yolo			
5	Entropy-Boosted Adversarial Patch for Concealing Pedestrians in YOLO Models	Yolo			
6	A Dual UAV Cooperative Positioning System with Advanced Target Detection and Localization	Yolo			
7	An Improved YOLOv8 Algorithm for Rail Surface Defect Detection	Yolo			
8	CCG-YOLOv7 A Wood Defect Detection Model for Small Targets Using Improved YOLOv7	Yolo			
9	Steel Surface Defect Detection Method Based on Improved YOLOX	Yolo			
10	Automatic Thyroid Nodule Detection in Ultrasound Imaging with Improved YOLOv5 Neural Network	Yolo			
11	Longitudinal Tear Detection of Conveyor Belt Based on Improved YOLOv7	Yolo			
12	Multi-Class Kidney Abnormalities Detecting Novel System Through Computed Tomography	Yolo			

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13	Detection of Tooth Position by YOLOv4 and Various Dental Problems Based on CNN With Bitewing Radiograph	Yolo			
14	Personal Protective Equipment Detection for Construction Workers A Novel Dataset and Enhanced YOLOv5 Approach	Yolo			
15	Advancing Breast Cancer Detection Enhancing YOLOv5 Network for Accurate Classification in Mammogram Images	Yolo			
16	Research on Bubble Detection Based on Improved YOLOv8n	Yolo			
17	Automatic Blood Cell Detection Based on Advanced YOLOv5s Network	Yolo			
18	YOLO-ESCA A High-Performance Safety Helmet Standard Wearing Behaviour Detection Model Based on Improved YOLOv5	Yolo			
19	SatDetX-YOLO A More Accurate Method for Vehicle Target Detection in Satellite Remote Sensing Imagery	Yolo			
20	GBCD-YOLO A High-Precision and Real-Time Lightweight Model for Wood Defect Detection	Yolo			
21	An Efficient YOLO Network with CSPCBAM Ghost and Cluster-NMS for Underwater Target Detection	Yolo			
22	Automated Brain Tumour Segmentation and Classification in MRI Using YOLO-Based Deep Learning	Yolo			
23	Deep Learning-Based YOLO Models for the Detection of People with Disabilities	Yolo			

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24	Monitoring-Based Traffic Participant Detection in Urban Mixed Traffic: A Novel Dataset and A Tailored Detector	Yolo			
25	Vision Transformers, Ensemble Model, and Transfer Learning Leveraging Explainable AI for Brain Tumour Detection and Classification	Yolo			
26	WSA-YOLO: Weak-supervised and Adaptive object detection in the low-light environment for YOLOV7	Yolo			
27	YOLOv8-QSD: An Improved Small Object Detection Algorithm for Autonomous Vehicles Based on YOLOv8	Yolo			
28	YOLOTrashCan: A Deep Learning Marine Debris Detection Network	Yolo			