Application of Combining YOLO Models and 3D GPR Im Maintenance

Remote Sensing 13, 1081

DOI: 10.3390/rs13061081

Citation Report

#	Article	IF	CITATIONS
1	HOPS: A novel descriptor for Buried Target Detection in GPR images based on structural symmetry. , 2021, , .		0
2	New innovations in pavement materials and engineering: A review on pavement engineering research 2021. Journal of Traffic and Transportation Engineering (English Edition), 2021, 8, 815-999.	2.0	59
3	Vector Phase Symmetry for Stable Hyperbola Detection in Ground-Penetrating Radar Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	4
4	Application of a novel EWMA-i- chart on quality control in asphalt mixtures production. Construction and Building Materials, 2022, 323, 126264.	3.2	9
5	Analysis of the dynamic responses of asphalt pavement based on full-scale accelerated testing and finite element simulation. Construction and Building Materials, 2022, 325, 126429.	3.2	34
6	Study on Significance Enhancement Algorithm of Abnormal Features of Urban Road Ground Penetrating Radar Images. Remote Sensing, 2022, 14, 1546.	1.8	8
7	Research on the Dynamic Monitoring Technology of Road Subgrades with Time-Lapse Full-Coverage 3D Ground Penetrating Radar (GPR). Remote Sensing, 2022, 14, 1593.	1.8	8
8	A Fast Inference Vision Transformer for Automatic Pavement Image Classification and Its Visual Interpretation Method. Remote Sensing, 2022, 14, 1877.	1.8	12
9	GPR-based detection of internal cracks in asphalt pavement: A combination method of DeepAugment data and object detection. Measurement: Journal of the International Measurement Confederation, 2022, 197, 111281.	2.5	42
10	Automatic detection of asphalt pavement thickness: A method combining GPR images and improved Canny algorithm. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111248.	2.5	27
11	Machine learning algorithms for monitoring pavement performance. Automation in Construction, 2022, 139, 104309.	4.8	26
12	Novel YOLOv3 Model With Structure and Hyperparameter Optimization for Detection of Pavement Concealed Cracks in GPR Images. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22258-22268.	4.7	32
13	Pavement Distress Detection Using Three-Dimension Ground Penetrating Radar and Deep Learning. Applied Sciences (Switzerland), 2022, 12, 5738.	1.3	8
14	Three-dimensional finite element analysis for structural parameters of asphalt pavement: A combined laboratory and field accelerated testing approach. Case Studies in Construction Materials, 2022, 17, e01221.	0.8	10
15	CNN-Based Hyperparameter Optimization Approach for Road Pothole and Crack Detection Systems., 2022,,.		3
16	Two-stage method based on the you only look once framework and image segmentation for crack detection in concrete structures. Architecture, Structures and Construction, 2023, 3, 429-446.	0.7	7
17	CNN-Based Sub-Surface Object Detection Using Ground Penetrating Radar., 2021,,.		0
18	Deep learning-based GPR images detection of pavement distress. , 2022, , .		1

#	Article	IF	Citations
19	Hyperbola Detection with RetinaNet and Comparison of Hyperbola Fitting Methods in GPR Data from an Archaeological Site. Remote Sensing, 2022, 14, 3665.	1.8	5
20	Automatic Detection of Pothole Distress in Asphalt Pavement Using Improved Convolutional Neural Networks. Remote Sensing, 2022, 14, 3892.	1.8	44
21	DL-Aided Underground Cavity Morphology Recognition Based on 3D GPR Data. Mathematics, 2022, 10, 2806.	1.1	6
22	Automatic Detection and Assessment of Pavement Marking Defects with Street View Imagery at the City Scale. Remote Sensing, 2022, 14, 4037.	1.8	1
23	Study on wavefield characteristics of urban road cavities in 3D GPR data., 2022,,.		0
24	Artificial intelligence-based visual inspection system for structural health monitoring of cultural heritage. Journal of Civil Structural Health Monitoring, 2024, 14, 103-120.	2.0	9
25	Road Damage Intelligent Detection with Deep Learning Techniques. , 2022, , .		0
26	Automatic recognition of pavement cracks from combined GPR B-scan and C-scan images using multiscale feature fusion deep neural networks. Automation in Construction, 2023, 146, 104698.	4.8	63
27	Automatic pixel-level detection of vertical cracks in asphalt pavement based on GPR investigation and improved mask R-CNN. Automation in Construction, 2023, 146, 104689.	4.8	50
28	Citrus Tree Crown Segmentation of Orchard Spraying Robot Based on RGB-D Image and Improved Mask R-CNN. Applied Sciences (Switzerland), 2023, 13, 164.	1.3	8
29	A MPI programming model for fast bird nest detection on the railway catenary. , 2022, , .		0
30	Deep Learning-Based Network for Underground Dielectric Target Reconstruction. , 2021, , .		0
31	Layered Media Inversion Network Applied in Ground Penetrating Radar., 2021,,.		0
32	Pineapples' Detection and Segmentation Based on Faster and Mask R-CNN in UAV Imagery. Remote Sensing, 2023, 15, 814.	1.8	1
33	Dense Multiscale Feature Learning Transformer Embedding Cross-Shaped Attention for Road Damage Detection. Electronics (Switzerland), 2023, 12, 898.	1.8	4
34	Ground penetrating radar forward modeling of roads based on random media model. Acta Geodaetica Et Geophysica, 2023, 58, 109-122.	0.7	0
35	Efficient Underground Target Detection of Urban Roads in Ground-Penetrating Radar Images Based on Neural Networks. Remote Sensing, 2023, 15, 1346.	1.8	2
36	DDIS-based GPR Image Matching Method. , 2022, , .		0

#	Article	IF	CITATIONS
37	A modified-yolov5s model for defect detection of printed circuit board. , 2022, , .		0
38	Hyperbola detection with Retinanet: application to new sites and scalability., 0,, 443-447.		0
39	Deep Learning for Improved Subsurface Imaging: Enhancing GPR Clutter Removal Performance Using Contextual Feature Fusion and Enhanced Spatial Attention. Remote Sensing, 2023, 15, 1729.	1.8	0
40	A Modular Method for GPR Hyperbolic Feature Detection and Quantitative Parameter Inversion of Underground Pipelines. Remote Sensing, 2023, 15, 2114.	1.8	1
41	Performance evaluation of full-scale accelerated pavement using NDT and laboratory tests: A case study in Jiangsu, China. Case Studies in Construction Materials, 2023, 18, e02083.	0.8	5
42	Prediction of remaining service life of cement concrete pavement in airfield runway. Road Materials and Pavement Design, 2024, 25, 150-167.	2.0	1
46	Automatic Detection for Road Voids from GPR Images using Deep Learning Method., 2023,,.		0
47	A Method to Detect Pavement Surface Distress Based on Improved U-Net Semantic Segmentation Network., 2023,,.		0
49	Measurement and Assessement of Road Poor Interlayer Bonding Assessment Using Ground Penetrating Radar., 2023,,.		0
54	Road detection and three-dimensional visualization management using deep learning and BIM integration. , 2023, , .		0
58	A Comparative Study ofÂYOLO V4 andÂV5 Architectures onÂPavement Cracks Using Region-Based Detection. Lecture Notes in Computer Science, 2023, , 49-63.	1.0	0
62	Methodology for Selecting Neural Network Architecture for Recognizing Pavement Defects., 2023,,.		0
63	Intellectualization of the Pavement Defect Recognition Process. , 2023, , .		0
66	Role of intelligent data analysis to enhance GPR data interoperability: road transports. , 2024, , 159-184.		0
70	Ground Penetrating Radar Underground Target Detection Based on GPR-YOLOv5., 2023,,.		0
73	Recognition of Pavement Structural Damage Based on Nondestructive Testing and Computer Vision. , 2024, , .		O