

# Huaibo Song

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

1,088  
citations

471509

17  
h-index

414414

32  
g-index

35  
all docs

35  
docs citations

35  
times ranked

768  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using channel pruning-based YOLO v4 deep learning algorithm for the real-time and accurate detection of apple flowers in natural environments. <i>Computers and Electronics in Agriculture</i> , 2020, 178, 105742.	7.7	266
2	Lameness detection of dairy cows based on the YOLOv3 deep learning algorithm and a relative step size characteristic vector. <i>Biosystems Engineering</i> , 2020, 189, 150-163.	4.3	92
3	Fusion of machine vision technology and AlexNet-CNNs deep learning network for the detection of postharvest apple pesticide residues. <i>Artificial Intelligence in Agriculture</i> , 2019, 1, 1-8.	6.0	78
4	FLYOLOv3 deep learning for key parts of dairy cow body detection. <i>Computers and Electronics in Agriculture</i> , 2019, 166, 104982.	7.7	74
5	Using an EfficientNet-LSTM for the recognition of single Cow's motion behaviours in a complicated environment. <i>Computers and Electronics in Agriculture</i> , 2020, 177, 105707.	7.7	55
6	Recognition of green apples in an orchard environment by combining the GrabCut model and Ncut algorithm. <i>Biosystems Engineering</i> , 2019, 187, 201-213.	4.3	41
7	Using a CNN-LSTM for basic behaviors detection of a single dairy cow in a complex environment. <i>Computers and Electronics in Agriculture</i> , 2021, 182, 106016.	7.7	39
8	Lameness detection of dairy cows based on a double normal background statistical model. <i>Computers and Electronics in Agriculture</i> , 2019, 158, 140-149.	7.7	32
9	Deep Learning Approach for Apple Edge Detection to Remotely Monitor Apple Growth in Orchards. <i>IEEE Access</i> , 2020, 8, 26911-26925.	4.2	32
10	Detection of the respiratory rate of standing cows by combining the Deeplab V3+ semantic segmentation model with the phase-based video magnification algorithm. <i>Biosystems Engineering</i> , 2020, 192, 72-89.	4.3	32
11	Segmenting Purple Rapeseed Leaves in the Field from UAV RGB Imagery Using Deep Learning as an Auxiliary Means for Nitrogen Stress Detection. <i>Remote Sensing</i> , 2020, 12, 1403.	4.0	29
12	Fusion of the YOLOv4 network model and visual attention mechanism to detect low-quality young apples in a complex environment. <i>Precision Agriculture</i> , 2022, 23, 559-577.	6.0	29
13	Intrinsic brain subsystem associated with dietary restraint, disinhibition and hunger: an fMRI study. <i>Brain Imaging and Behavior</i> , 2017, 11, 264-277.	2.1	26
14	Recognition of green apples based on fuzzy set theory and manifold ranking algorithm. <i>Optik</i> , 2018, 165, 395-407.	2.9	26
15	Single-stream long-term optical flow convolution network for action recognition of lameness dairy cow. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105536.	7.7	26
16	Recognition and localization of occluded apples using K-means clustering algorithm and convex hull theory: a comparison. <i>Multimedia Tools and Applications</i> , 2016, 75, 3177-3198.	3.9	24
17	Age-Related Decreases in Interhemispheric Resting-State Functional Connectivity and Their Relationship With Executive Function. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 20.	3.4	22
18	Towards real-time tracking and counting of seedlings with a one-stage detector and optical flow. <i>Computers and Electronics in Agriculture</i> , 2022, 193, 106683.	7.7	22

#	ARTICLE	IF	CITATIONS
19	Combining SUN-based visual attention model and saliency contour detection algorithm for apple image segmentation. <i>Multimedia Tools and Applications</i> , 2019, 78, 17391-17411.	3.9	17
20	Detection of green apples in natural scenes based on saliency theory and Gaussian curve fitting. <i>International Journal of Agricultural and Biological Engineering</i> , 2018, 11, 192-198.	0.6	15
21	Dairy cow lameness detection using a back curvature feature. <i>Computers and Electronics in Agriculture</i> , 2022, 194, 106729.	7.7	15
22	An adaptive segmentation method combining MSRCR and mean shift algorithm with K-means correction of green apples in natural environment. <i>Information Processing in Agriculture</i> , 2019, 6, 200-215.	4.1	14
23	Basic motion behaviour recognition of dairy cows based on skeleton and hybrid convolution algorithms. <i>Computers and Electronics in Agriculture</i> , 2022, 196, 106889.	7.7	14
24	Tracking Multiple Target Cowsâ€™ Ruminant Mouth Areas Using Optical Flow and Inter-Frame Difference Methods. <i>IEEE Access</i> , 2019, 7, 185520-185531.	4.2	12
25	Contrasting dorsal caudate functional connectivity patterns between frontal and temporal cortex with BMI increase: link to cognitive flexibility. <i>International Journal of Obesity</i> , 2021, 45, 2608-2616.	3.4	12
26	An improved contour symmetry axes extraction algorithm and its application in the location of picking points of apples. <i>Spanish Journal of Agricultural Research</i> , 2015, 13, e0205.	0.6	11
27	Registration for Optical Multimodal Remote Sensing Images Based on FAST Detection, Window Selection, and Histogram Specification. <i>Remote Sensing</i> , 2018, 10, 663.	4.0	9
28	Fusion of RGB, optical flow and skeleton features for the detection of lameness in dairy cows. <i>Biosystems Engineering</i> , 2022, 218, 62-77.	4.3	7
29	Extracting the symmetry axes of partially occluded single apples in natural scene using convex hull theory and shape context algorithm. <i>Multimedia Tools and Applications</i> , 2017, 76, 14075-14089.	3.9	6
30	Combining an information-maximization-based attention mechanism and illumination invariance theory for the recognition of green apples in natural scenes. <i>Multimedia Tools and Applications</i> , 2020, 79, 28301-28327.	3.9	5
31	Combining fuzzy set theory and nonlinear stretching enhancement for unsupervised classification of cotton root rot. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 096013.	1.3	4
32	A novel label protuberant characters recognition method based on WPT and improved SVD. , 2010, , .		1
33	Segmentation of foreground apple targets by fusing visual attention mechanism and growth rules of seed points. <i>Spanish Journal of Agricultural Research</i> , 2015, 13, e0214.	0.6	1
34	Bottom-up saliency estimation using sparse representation and structural redundancy reduction. <i>Multimedia Tools and Applications</i> , 2015, 74, 9647-9663.	3.9	0
35	Study of Dynamic Tracking Algorithms for Apples Under the Influence of Oscillation. <i>IEEE Access</i> , 2020, 8, 32966-32974.	4.2	0