

Huaibo Song

List of Publications by Year in descending order

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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	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
2	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
3	Dairy cow lameness detection using a back curvature feature. <i>Computers and Electronics in Agriculture</i> , 2022, 194, 106729.	7.7	15
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	Study of Dynamic Tracking Algorithms for Apples Under the Influence of Oscillation. <i>IEEE Access</i> , 2020, 8, 32966-32974.	4.2	0
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	FLYOLOv3 deep learning for key parts of dairy cow body detection. Computers and Electronics in Agriculture, 2019, 166, 104982.	7.7	74
20	Fusion of machine vision technology and AlexNet-CNNs deep learning network for the detection of postharvest apple pesticide residues. Artificial Intelligence in Agriculture, 2019, 1, 1-8.	6.0	78
21	Lameness detection of dairy cows based on a double normal background statistical model. Computers and Electronics in Agriculture, 2019, 158, 140-149.	7.7	32
22	Tracking Multiple Target Cows's Ruminant Mouth Areas Using Optical Flow and Inter-Frame Difference Methods. IEEE Access, 2019, 7, 185520-185531.	4.2	12
23	An adaptive segmentation method combining MSRCR and mean shift algorithm with K-means correction of green apples in natural environment. Information Processing in Agriculture, 2019, 6, 200-215.	4.1	14
24	Combining SUN-based visual attention model and saliency contour detection algorithm for apple image segmentation. Multimedia Tools and Applications, 2019, 78, 17391-17411.	3.9	17
25	Recognition of green apples based on fuzzy set theory and manifold ranking algorithm. Optik, 2018, 165, 395-407.	2.9	26
26	Registration for Optical Multimodal Remote Sensing Images Based on FAST Detection, Window Selection, and Histogram Specification. Remote Sensing, 2018, 10, 663.	4.0	9
27	Detection of green apples in natural scenes based on saliency theory and Gaussian curve fitting. International Journal of Agricultural and Biological Engineering, 2018, 11, 192-198.	0.6	15
28	Intrinsic brain subsystem associated with dietary restraint, disinhibition and hunger: an fMRI study. Brain Imaging and Behavior, 2017, 11, 264-277.	2.1	26
29	Extracting the symmetry axes of partially occluded single apples in natural scene using convex hull theory and shape context algorithm. Multimedia Tools and Applications, 2017, 76, 14075-14089.	3.9	6
30	Recognition and localization of occluded apples using K-means clustering algorithm and convex hull theory: a comparison. Multimedia Tools and Applications, 2016, 75, 3177-3198.	3.9	24
31	Combining fuzzy set theory and nonlinear stretching enhancement for unsupervised classification of cotton root rot. Journal of Applied Remote Sensing, 2015, 9, 096013.	1.3	4
32	Bottom-up saliency estimation using sparse representation and structural redundancy reduction. Multimedia Tools and Applications, 2015, 74, 9647-9663.	3.9	0
33	An improved contour symmetry axes extraction algorithm and its application in the location of picking points of apples. Spanish Journal of Agricultural Research, 2015, 13, e0205.	0.6	11
34	Segmentation of foreground apple targets by fusing visual attention mechanism and growth rules of seed points. Spanish Journal of Agricultural Research, 2015, 13, e0214.	0.6	1
35	A novel label protuberant characters recognition method based on WPT and improved SVD. , 2010, , .		1