

# Yunchao Tang

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

2,589  
citations

172457

29  
h-index

265206

42  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1277  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recognition and Localization Methods for Vision-Based Fruit Picking Robots: A Review. <i>Frontiers in Plant Science</i> , 2020, 11, 510.	3.6	294
2	Real-time detection of surface deformation and strain in recycled aggregate concrete-filled steel tubular columns via four-ocular vision. <i>Robotics and Computer-Integrated Manufacturing</i> , 2019, 59, 36-46.	9.9	135
3	High-accuracy multi-camera reconstruction enhanced by adaptive point cloud correction algorithm. <i>Optics and Lasers in Engineering</i> , 2019, 122, 170-183.	3.8	111
4	Color-, depth-, and shape-based 3D fruit detection. <i>Precision Agriculture</i> , 2020, 21, 1-17.	6.0	99
5	Guava Detection and Pose Estimation Using a Low-Cost RGB-D Sensor in the Field. <i>Sensors</i> , 2019, 19, 428.	3.8	98
6	A vision methodology for harvesting robot to detect cutting points on peduncles of double overlapping grape clusters in a vineyard. <i>Computers in Industry</i> , 2018, 99, 130-139.	9.9	93
7	Fruit detection in natural environment using partial shape matching and probabilistic Hough transform. <i>Precision Agriculture</i> , 2020, 21, 160-177.	6.0	92
8	Localisation of litchi in an unstructured environment using binocular stereo vision. <i>Biosystems Engineering</i> , 2016, 145, 39-51.	4.3	91
9	3D global mapping of large-scale unstructured orchard integrating eye-in-hand stereo vision and SLAM. <i>Computers and Electronics in Agriculture</i> , 2021, 187, 106237.	7.7	91
10	Detection of Fruit-Bearing Branches and Localization of Litchi Clusters for Vision-Based Harvesting Robots. <i>IEEE Access</i> , 2020, 8, 117746-117758.	4.2	89
11	Vision-based extraction of spatial information in grape clusters for harvesting robots. <i>Biosystems Engineering</i> , 2016, 151, 90-104.	4.3	85
12	Fracture behavior of a sustainable material: Recycled concrete with waste crumb rubber subjected to elevated temperatures. <i>Journal of Cleaner Production</i> , 2021, 318, 128553.	9.3	84
13	Seismic performance evaluation of recycled aggregate concrete-filled steel tubular columns with field strain detected via a novel mark-free vision method. <i>Structures</i> , 2022, 37, 426-441.	3.6	78
14	Three-dimensional perception of orchard banana central stock enhanced by adaptive multi-vision technology. <i>Computers and Electronics in Agriculture</i> , 2020, 174, 105508.	7.7	77
15	Prediction of thermo-mechanical properties of rubber-modified recycled aggregate concrete. <i>Construction and Building Materials</i> , 2022, 318, 125970.	7.2	77
16	Collision-free path planning for a guava-harvesting robot based on recurrent deep reinforcement learning. <i>Computers and Electronics in Agriculture</i> , 2021, 188, 106350.	7.7	74
17	Axial compression behavior of recycled-aggregate-concrete-filled GFRP-steel composite tube columns. <i>Engineering Structures</i> , 2020, 216, 110676.	5.3	73
18	Robust Grape Cluster Detection in a Vineyard by Combining the AdaBoost Framework and Multiple Color Components. <i>Sensors</i> , 2016, 16, 2098.	3.8	70

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19	Seismic performance of recycled aggregate concrete-filled steel tube columns. <i>Journal of Constructional Steel Research</i> , 2017, 133, 112-124.	3.9	69
20	A robust fruit image segmentation algorithm against varying illumination for vision system of fruit harvesting robot. <i>Optik</i> , 2017, 131, 626-631.	2.9	66
21	Combined effects of nano-silica and silica fume on the mechanical behavior of recycled aggregate concrete. <i>Nanotechnology Reviews</i> , 2021, 10, 819-838.	5.8	66
22	In-field citrus detection and localisation based on RGB-D image analysis. <i>Biosystems Engineering</i> , 2019, 186, 34-44.	4.3	61
23	Study of seismic behavior of recycled aggregate concrete-filled steel tubular columns. <i>Journal of Constructional Steel Research</i> , 2018, 148, 1-15.	3.9	57
24	Binocular vision measurement and its application in full-field convex deformation of concrete-filled steel tubular columns. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 130, 372-383.	5.0	54
25	Compressive properties of rubber-modified recycled aggregate concrete subjected to elevated temperatures. <i>Construction and Building Materials</i> , 2021, 268, 121181.	7.2	53
26	Three-dimensional reconstruction of guava fruits and branches using instance segmentation and geometry analysis. <i>Computers and Electronics in Agriculture</i> , 2021, 184, 106107.	7.7	46
27	Recognition and Matching of Clustered Mature Litchi Fruits Using Binocular Charge-Coupled Device (CCD) Color Cameras. <i>Sensors</i> , 2017, 17, 2564.	3.8	40
28	A Study on Long-Close Distance Coordination Control Strategy for Litchi Picking. <i>Agronomy</i> , 2022, 12, 1520.	3.0	34
29	Window Zooming-Based Localization Algorithm of Fruit and Vegetable for Harvesting Robot. <i>IEEE Access</i> , 2019, 7, 103639-103649.	4.2	29
30	Vision-Based Three-Dimensional Reconstruction and Monitoring of Large-Scale Steel Tubular Structures. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-17.	0.7	29
31	A multi-objective optimisation approach for activity excitation of waste glass mortar. <i>Journal of Materials Research and Technology</i> , 2022, 17, 2280-2304.	5.8	29
32	Grape Berry Detection and Size Measurement Based on Edge Image Processing and Geometric Morphology. <i>Machines</i> , 2021, 9, 233.	2.2	24
33	Partially fly ash and nano-silica incorporated recycled coarse aggregate based concrete: Constitutive model and enhancement mechanism. <i>Journal of Materials Research and Technology</i> , 2022, 17, 192-210.	5.8	24
34	YOLOv3-Litchi Detection Method of Densely Distributed Litchi in Large Vision Scenes. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-11.	1.1	23
35	Mode II dynamic fracture toughness of rubberised concrete using a drop hammer device and split Hopkinson pressure bar. <i>Journal of Building Engineering</i> , 2022, 48, 103995.	3.4	14
36	Structural effects and real strain-rate effects on compressive strength of sustainable concrete with crumb rubber in split Hopkinson pressure bar tests. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, .	3.8	13

#	ARTICLE	IF	CITATIONS
37	Shrinkage compensation design and mechanism of geopolymer pastes. Construction and Building Materials, 2021, 299, 123916.	7.2	12
38	Study on crack width and crack resistance of eccentrically tensioned steel-reinforced concrete members prestressed by CFRP tendons. Engineering Structures, 2022, 252, 113651.	5.3	11
39	Experimental and Theoretical Investigation on the Thermo-Mechanical Properties of Recycled Aggregate Concrete Containing Recycled Rubber. Frontiers in Materials, 2021, 8, .	2.4	9
40	Grand Challenges of Machine-Vision Technology in Civil Structural Health Monitoring. Artificial Intelligence Evolution, 0, , 8-16.	0.0	7
41	Study of Shrinkage Compensation and Feasibility of Engineering Applications of Geopolymer Concrete. Journal of Materials in Civil Engineering, 2022, 34, .	2.9	4
42	Point Cloud Registration Algorithm Combined Gaussian Mixture Model and Point-to-Plane Metric. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2018, 30, 642.	0.2	2
43	Three-Dimensional Reconstruction and Monitoring of Large-Scale Structures via Real-Time Multi-vision System. Communications in Computer and Information Science, 2020, , 442-457.	0.5	1
44	A Comprehensive Flexural Analysis for Sustainable Concrete Structure Reinforced by Embedded Parts. Advances in Civil Engineering, 2021, 2021, 1-10.	0.7	1
45	Multi-Shaped Targets Recognition and Point Clouds Acquisition Algorithm in Complex Environment. Laser and Optoelectronics Progress, 2018, 55, 111505.	0.6	0
46	Poisson Surface Reconstruction Algorithm Based on Improved Normal Orientation. Laser and Optoelectronics Progress, 2019, 56, 141005.	0.6	0
47	Real-time detection of asymmetric surface deformation and field stress in concrete-filled circular steel tubes via multi-vision method. Lecture Notes in Civil Engineering, 2020, , 1173-1178.	0.4	0