

Weipeng Guan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Indoor High Precision Three-Dimensional Positioning System Based on Visible Light Communication Using Particle Swarm Optimization. IEEE Photonics Journal, 2017, 9, 1-20.	2.0	81
2	The LED-ID Detection and Recognition Method Based on Visible Light Positioning Using Proximity Method. IEEE Photonics Journal, 2018, 10, 1-16.	2.0	79
3	High-Accuracy Robot Indoor Localization Scheme Based on Robot Operating System Using Visible Light Positioning. IEEE Photonics Journal, 2020, 12, 1-16.	2.0	78
4	A novel three-dimensional indoor positioning algorithm design based on visible light communication. Optics Communications, 2017, 392, 282-293.	2.1	61
5	Indoor high precision three-dimensional positioning system based on visible light communication using modified genetic algorithm. Optics Communications, 2018, 413, 103-120.	2.1	60
6	High-precision approach to localization scheme of visible light communication based on artificial neural networks and modified genetic algorithms. Optical Engineering, 2017, 56, 1.	1.0	43
7	High-Speed Robust Dynamic Positioning and Tracking Method Based on Visual Visible Light Communication Using Optical Flow Detection and Bayesian Forecast. IEEE Photonics Journal, 2018, 10, 1-22.	2.0	42
8	Performance analysis and enhancement for visible light communication using CMOS sensors. Optics Communications, 2018, 410, 531-551.	2.1	40
9	High-speed 3D indoor localization system based on visible light communication using differential evolution algorithm. Optics Communications, 2018, 424, 177-189.	2.1	37
10	Indoor Real-Time 3-D Visible Light Positioning System Using Fingerprinting and Extreme Learning Machine. IEEE Access, 2020, 8, 13875-13886.	4.2	37
11	Robot Localization and Navigation Using Visible Light Positioning and SLAM Fusion. Journal of Lightwave Technology, 2021, 39, 7040-7051.	4.6	27
12	Robust Robotic Localization Using Visible Light Positioning and Inertial Fusion. IEEE Sensors Journal, 2022, 22, 4882-4892.	4.7	24
13	High-precision indoor positioning algorithm based on visible light communication using complementary metal-oxide-semiconductor image sensor. Optical Engineering, 2019, 58, 1.	1.0	24
14	Three-dimensional high-precision indoor positioning strategy using Tabu search based on visible light communication. Optical Engineering, 2018, 57, 1.	1.0	23
15	High Precision Indoor Visible Light Positioning Algorithm Based on Double LEDs Using CMOS Image Sensor. Applied Sciences (Switzerland), 2019, 9, 1238.	2.5	21
16	A three-dimensional indoor positioning technique based on visible light communication using chaotic particle swarm optimization algorithm. Optik, 2018, 165, 54-73.	2.9	18
17	High precision three-dimensional iterative indoor localization algorithm using code division multiple access modulation based on visible light communication. Optical Engineering, 2016, 55, 106105.	1.0	16
18	The Detection and Recognition of RGB-LED-ID Based on Visible Light Communication using Convolutional Neural Network. Applied Sciences (Switzerland), 2019, 9, 1400.	2.5	16

#	ARTICLE	IF	CITATIONS
19	A High-Precision, Real-Time, and Robust Indoor Visible Light Positioning Method Based on Mean Shift Algorithm and Unscented Kalman Filter. <i>Sensors</i> , 2019, 19, 1094.	3.8	14
20	Single LED positioning scheme based on angle sensors in robotics. <i>Applied Optics</i> , 2021, 60, 6275.	1.8	13
21	Long-range visible light communication system based on LED collimating lens. <i>Optics Communications</i> , 2016, 377, 83-88.	2.1	12
22	A Novel Three-dimensional Indoor Localization Algorithm Based on Visual Visible Light Communication Using Single LED. , 2018, , .		12
23	Visible Light Dynamic Positioning Method Using Improved Camshift-Kalman Algorithm. <i>IEEE Photonics Journal</i> , 2019, 11, 1-22.	2.0	12
24	Multirobot Cooperative Localization Based on Visible Light Positioning and Odometer. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	4.7	12
25	Visible light positioning system based on CMOS image sensor using particle filter tracking and detecting algorithm. <i>Optics Communications</i> , 2019, 444, 9-20.	2.1	11
26	Performance Enhancement Scheme for RSE-Based Underwater Optical Camera Communication Using De-Bubble Algorithm and Binary Fringe Correction. <i>Electronics (Switzerland)</i> , 2021, 10, 950.	3.1	11
27	The Optical Barcode Detection and Recognition Method Based on Visible Light Communication Using Machine Learning. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2425.	2.5	9
28	High-precision indoor three-dimensional positioning system based on visible light communication using modified artificial fish swarm algorithm. <i>Optical Engineering</i> , 2018, 57, 1.	1.0	9
29	Universal and Effective Decoding Scheme for Visible Light Positioning Based on Optical Camera Communication. <i>Electronics (Switzerland)</i> , 2021, 10, 1925.	3.1	8
30	Indoor high-precision three-dimensional positioning algorithm based on visible light communication and fingerprinting using K-means and random forest. <i>Optical Engineering</i> , 2019, 58, 1.	1.0	8
31	Improved Target Signal Source Tracking and Extraction Method Based on Outdoor Visible Light Communication Using a Cam-Shift Algorithm and Kalman Filter. <i>Sensors</i> , 2018, 18, 4173.	3.8	7
32	Performance comparison and analysis on different optimization models for high-precision three-dimensional visible light positioning. <i>Optical Engineering</i> , 2018, 57, 1.	1.0	7
33	Improved Target Signal Source Tracking and Extraction Method Based on Outdoor Visible Light Communication Using an Improved Particle Filter Algorithm Based on Cam-Shift Algorithm. <i>IEEE Photonics Journal</i> , 2019, 11, 1-20.	2.0	5
34	The Optical Bar Code Detection Method Based on Optical Camera Communication Using Discrete Fourier Transform. <i>IEEE Access</i> , 2020, 8, 123238-123252.	4.2	4
35	Three-Dimensional Indoor Visible Light Positioning with a Tilt Receiver and a High Efficient LED-ID. <i>Electronics (Switzerland)</i> , 2021, 10, 1265.	3.1	4
36	Robust LED region-of-interest tracking for visible light positioning with low complexity. <i>Optical Engineering</i> , 2021, 60, .	1.0	4

#	ARTICLE	IF	CITATIONS
37	Channel-Attention-Enhanced LSTM Neural Network Decoder and Equalizer for RSE-Based Optical Camera Communications. Electronics (Switzerland), 2022, 11, 1272.	3.1	4
38	The optical fringe code modulation and recognition algorithm based on visible light communication using convolutional neural network. Signal Processing: Image Communication, 2019, 75, 128-140.	3.2	3
39	RSE-based optical camera communication in underwater scenery with bubble degradation. , 2021, , .		3
40	High Speed Novel Hybrid Modulation Technique of Visible Light Communication Based on Artificial Neural Network Equalizer. , 2018, , .		2
41	High Precision Indoor Robot Localization Using VLC Enabled Smart Lighting. , 2021, , .		2
42	High-precision indoor three-dimensional localization scheme based on visible light communication using modified fruit fly optimization algorithm. Optical Engineering, 2018, 57, 1.	1.0	2
43	A Tilt Visible Light Positioning System Based on Double LEDs and Angle Sensors. Electronics (Switzerland), 2021, 10, 1923.	3.1	1