

# Taro Suzuki

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2261615/publications.pdf>

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40  
papers

410  
citations

933447

10  
h-index

996975

15  
g-index

41  
all docs

41  
docs citations

41  
times ranked

259  
citing authors

#	ARTICLE	IF	CITATIONS
1	6-DOF localization for a mobile robot using outdoor 3D voxel maps. , 2010, , .		37
2	NLOS Multipath Classification of GNSS Signal Correlation Output Using Machine Learning. Sensors, 2021, 21, 2503.	3.8	34
3	High-accuracy GPS and GLONASS positioning by multipath mitigation using omnidirectional infrared camera. , 2011, , .		33
4	Rotating GNSS Antennas: Simultaneous LOS and NLOS Multipath Mitigation. GPS Solutions, 2020, 24, 1.	4.3	28
5	A Small UAV for Immediate Hazard Map Generation. , 2007, , .		25
6	Time-Relative RTK-GNSS: GNSS Loop Closure in Pose Graph Optimization. IEEE Robotics and Automation Letters, 2020, 5, 4735-4742.	5.1	22
7	Integration of GNSS Positioning and 3D Map using Particle Filter. , 0, , .		20
8	NLOS Satellite Detection Using a Fish-Eye Camera for Improving GNSS Positioning Accuracy in Urban Area. Journal of Robotics and Mechatronics, 2016, 28, 31-39.	1.0	17
9	Mobile robot localization with GNSS multipath detection using pseudorange residuals. Advanced Robotics, 2019, 33, 602-613.	1.8	15
10	3D Terrain Reconstruction by Small Unmanned Aerial Vehicle Using SIFT-Based Monocular SLAM. Journal of Robotics and Mechatronics, 2011, 23, 292-301.	1.0	15
11	Autonomous Navigation of a Mobile Robot Based on GNSS/DR Integration in Outdoor Environments. Journal of Robotics and Mechatronics, 2014, 26, 214-224.	1.0	15
12	Development of Information Collecting System using a Small Unmanned Aerial Vehicle for Disaster Prevention and Mitigation. Journal of the Robotics Society of Japan, 2008, 26, 553-560.	0.1	15
13	Real-time hazard map generation using small unmanned aerial vehicle. , 2008, , .		12
14	Autonomous Driving of Six-Wheeled Dump Truck with a Retrofitted Robot. Springer Proceedings in Advanced Robotics, 2021, , 59-72.	1.3	11
15	Performance Improvement of RTK-GNSS with IMU and Vehicle Speed Sensors in an Urban Environment. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 217-224.	0.3	11
16	Generation of Large Mosaic Images for Vegetation Monitoring Using a Small Unmanned Aerial Vehicle. Journal of Robotics and Mechatronics, 2010, 22, 212-220.	1.0	11
17	Vehicle Teleoperation Using 3D Maps and GPS Time Synchronization. IEEE Computer Graphics and Applications, 2013, 33, 82-88.	1.2	9
18	Semantic Mapping of Construction Site From Multiple Daily Airborne LiDAR Data. IEEE Robotics and Automation Letters, 2021, 6, 3073-3080.	5.1	9

#	ARTICLE	IF	CITATIONS
19	Robust UAV Position and Attitude Estimation using Multiple GNSS Receivers for Laser-based 3D Mapping. , 2019, , .		7
20	Improvement of GPS and GLONASS Positioning Accuracy by Multipath Mitigation Using Omnidirectional Infrared Camera. Journal of Robotics and Mechatronics, 2011, 23, 1125-1131.	1.0	7
21	6-DOF Localization for a Mobile Robot Using Outdoor 3D Point Clouds. Journal of Robotics and Mechatronics, 2010, 22, 158-166.	1.0	7
22	Precise UAV Position and Attitude Estimation by Multiple GNSS Receivers for 3D Mapping. , 0, , .		7
23	Attachable Sensor Boxes to Visualize Backhoe Motion. , 2020, , .		6
24	GNSS Odometry: Precise Trajectory Estimation Based on Carrier Phase Cycle Slip Estimation. IEEE Robotics and Automation Letters, 2022, 7, 7319-7326.	5.1	6
25	Precise point positioning for mobile robots using software GNSS receiver and QZSS LEX signal. , 2013, , .		5
26	Prediction of Backhoe Loading Motion via the Beta-Process Hidden Markov Model. , 2020, , .		4
27	Path Planning for Autonomous Vehicles Using QZSS and Satellite Visibility Map. Journal of Robotics and Mechatronics, 2013, 25, 400-407.	1.0	4
28	Positioning Simulation Using a 3D Map and Verification of Positional Estimation Accuracy in Urban Areas Using Actual Measurement. SAE International Journal of Passenger Cars - Electronic and Electrical Systems, 2016, 9, 171-179.	0.3	3
29	Forest Data Collection by UAV Lidar-Based 3D Mapping: Segmentation of Individual Tree Information from 3D Point Clouds. International Journal of Automation Technology, 2021, 15, 313-323.	1.0	3
30	Estimation of articulated angle in six-wheeled dump trucks using multiple GNSS receivers for autonomous driving. Advanced Robotics, 2021, 35, 1376-1387.	1.8	3
31	Attitude Determination using Single Frequency GNSS Receivers for Small UAVs. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 112.	0.0	3
32	Information collecting system based on aerial images obtained by a small UAV for disaster prevention. , 2007, 6794, 538.		1
33	Research, Development and Application of Aerial Robotic System for Disaster Monitoring. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 49-51.	0.2	1
34	Localization for Autonomous Navigation of a Mobile Robot Using an Open Source GNSS Library in Pedestrian Environments. Transactions of the Society of Instrument and Control Engineers, 2016, 52, 276-283.	0.2	1
35	An individual prediction model of the pre-loading motion for operator and backhoe pairs. Advanced Robotics, 0, , 1-16.	1.8	0
36	Vision System with Dominant Eye. IEJ Transactions on Industry Applications, 2010, 130, 393-399.	0.2	0

#	ARTICLE	IF	CITATIONS
37	GNSS Precise Point Positioning Based on Multipath Signal Determination for Outdoor Mobile Robots. Transactions of the Society of Instrument and Control Engineers, 2012, 48, 399-405.	0.2	0
38	Evaluation for Vehicle Positioning in Urban Environment Using QZSS Enhancement Function. Journal of Robotics and Mechatronics, 2012, 24, 894-901.	1.0	0
39	Disaster Back-up Support using GIS Contents Composed of Images from Satellite and UAV. Springer Tracts in Advanced Robotics, 2014, , 81-96.	0.4	0
40	Application of GNSS for UAVs. Journal of the Robotics Society of Japan, 2019, 37, 603-606.	0.1	0