

# Rin-ichiro Taniguchi

## List of Publications by Year in descending order

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85  
papers

932  
citations

687363

13  
h-index

610901

24  
g-index

86  
all docs

86  
docs citations

86  
times ranked

1050  
citing authors

#	ARTICLE	IF	CITATIONS
1	Faster CNN-based vehicle detection and counting strategy for fixed camera scenes. Multimedia Tools and Applications, 2022, 81, 25443-25471.	3.9	18
2	Measuring "Nigiwai" From Pedestrian Movement. IEEE Access, 2021, 9, 24859-24871.	4.2	1
3	High-Speed Imaging Using CMOS Image Sensor With Quasi Pixel-Wise Exposure. IEEE Transactions on Computational Imaging, 2020, 6, 463-476.	4.4	13
4	Auxiliary Detection Head for One-Stage Object Detection. IEEE Access, 2020, 8, 85740-85749.	4.2	7
5	Event Effects Estimation on Electricity Demand Forecasting. Energies, 2020, 13, 5839.	3.1	3
6	Rethinking Background And Foreground In Deep Neural Network-Based Background Subtraction. , 2020, , .		12
7	The IPIN 2019 Indoor Localisation Competition"Description and Results. IEEE Access, 2020, 8, 206674-206718.	4.2	37
8	Movement Recommendation System Based on Multi-Spot Congestion Analytics. Sustainability, 2020, 12, 2417.	3.2	0
9	Editor's Message to Special Issue of Young Researchers' Papers. Journal of Information Processing, 2020, 28, 192-192.	0.4	0
10	SALATA: A Web Application for Visualizing Sensor Information in Farm Fields. , 2020, , .		0
11	Efficient and Fast Traffic Congestion Classification Based on Video Dynamics and Deep Residual Network. Communications in Computer and Information Science, 2020, , 3-17.	0.5	7
12	3D Plant Growth Prediction via Image-to-Image Translation. , 2020, , .		5
13	On-the-fly Extrinsic Calibration of Non-Overlapping in-Vehicle Cameras based on Visual SLAM under 90-degree Backing-up Parking. , 2020, , .		2
14	Fall detection using optical level anonymous image sensing system. Optics and Laser Technology, 2019, 110, 44-61.	4.6	29
15	Geometrical and statistical incremental semantic modeling on mobile devices. Computers and Graphics, 2019, 84, 199-211.	2.5	3
16	Evaluating Indoor Positioning Systems in a Shopping Mall: The Lessons Learned From the IPIN 2018 Competition. IEEE Access, 2019, 7, 148594-148628.	4.2	60
17	End-to-End Learning Framework for IMU-Based 6-DOF Odometry. Sensors, 2019, 19, 3777.	3.8	37
18	TransCut2: Transparent Object Segmentation From a Light-Field Image. IEEE Transactions on Computational Imaging, 2019, 5, 465-477.	4.4	15

#	ARTICLE	IF	CITATIONS
19	3D Body and Background Reconstruction in a Large-scale Indoor Scene using Multiple Depth Cameras. , 2019, , .		0
20	Indoor Positioning System Based on Chest-Mounted IMU. Sensors, 2019, 19, 420.	3.8	48
21	Reflectance and Shape Estimation with a Light Field Camera Under Natural Illumination. International Journal of Computer Vision, 2019, 127, 1707-1722.	15.6	8
22	Robust Vehicle Detection and Counting Algorithm Employing a Convolution Neural Network and Optical Flow. Sensors, 2019, 19, 4588.	3.8	47
23	Incremental 3D Cuboid Modeling with Drift Compensation. Sensors, 2019, 19, 178.	3.8	2
24	Plant Growth Prediction using Convolutional LSTM. , 2019, , .		12
25	Sparse Cost Volume for Efficient Stereo Matching. Remote Sensing, 2018, 10, 1844.	4.0	23
26	Yield Visualization Based on Farm Work Information Measured by Smart Devices. Sensors, 2018, 18, 3906.	3.8	1
27	Reconstruction-Based Change Detection with Image Completion for a Free-Moving Camera. Sensors, 2018, 18, 1232.	3.8	7
28	The Dynamic Photometric Stereo Method Using a Multi-Tap CMOS Image Sensor. Sensors, 2018, 18, 786.	3.8	9
29	Analytics of Deep Neural Network-Based Background Subtraction. Journal of Imaging, 2018, 4, 78.	3.0	41
30	Adaptive background model registration for moving cameras. Pattern Recognition Letters, 2017, 96, 86-95.	4.2	12
31	Non-Linear Matrix Completion for Social Image Tagging. IEEE Access, 2017, 5, 6688-6696.	4.2	25
32	A Projectivity Diagnosis of Local Feature Using Template Matching. Electronics and Communications in Japan, 2017, 100, 63-72.	0.5	0
33	An Easy-to-Setup 3D Phenotyping Platform for KOMATSUNA Dataset. , 2017, , .		40
34	Adapting Local Features for Face Detection in Thermal Image. Sensors, 2017, 17, 2741.	3.8	22
35	Dynamic photometric stereo method using multi-tap CMOS image sensor. , 2016, , .		1
36	Background initialization based on bidirectional analysis and consensus voting. , 2016, , .		7

#	ARTICLE	IF	CITATIONS
37	Image annotation with incomplete labelling by modelling image specific structured loss. IEEJ Transactions on Electrical and Electronic Engineering, 2016, 11, 73-82.	1.4	4
38	Learning unified binary codes for cross-modal retrieval via latent semantic hashing. Neurocomputing, 2016, 213, 191-203.	5.9	53
39	Real time vision/sensor based features processing for efficient HCI employing canonical correlation analysis. Journal of Reliable Intelligent Environments, 2016, 2, 187-195.	5.2	0
40	Background light ray modeling for change detection. Journal of Visual Communication and Image Representation, 2016, 38, 55-64.	2.8	2
41	Learning multi-task local metrics for image annotation. Multimedia Tools and Applications, 2016, 75, 2203-2231.	3.9	8
42	A Projectivity Diagnosis of Local Feature Using Template Matching. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 1112-1119.	0.2	0
43	Person re-identification visualization tool for object tracking across non-overlapping cameras. , 2015, , .		0
44	Change detection on light field for active video surveillance. , 2015, , .		10
45	Camera array calibration for light field acquisition. Frontiers of Computer Science, 2015, 9, 691-702.	2.4	14
46	Shape and light directions from shading and polarization. , 2015, , .		13
47	Query expansion with pairwise learning in object retrieval challenge. , 2015, , .		1
48	Light field distortion feature for transparent object classification. Computer Vision and Image Understanding, 2015, 139, 122-135.	4.7	11
49	Anonymous Camera for Privacy Protection. , 2014, , .		17
50	Case-based background modeling: associative background database towards low-cost and high-performance change detection. Machine Vision and Applications, 2014, 25, 1121-1131.	2.7	9
51	Half-sweep imaging for depth from defocus. Image and Vision Computing, 2014, 32, 954-964.	4.5	10
52	Object detection based on spatiotemporal background models. Computer Vision and Image Understanding, 2014, 122, 84-91.	4.7	25
53	Motion-invariant Coding Using a Programmable Aperture Camera. IPSJ Transactions on Computer Vision and Applications, 2014, 6, 25-33.	4.4	4
54	Hash-based early recognition of gesture patterns. Artificial Life and Robotics, 2013, 17, 476-482.	1.2	2

#	ARTICLE	IF	CITATIONS
55	&#x201C;Clickable real world&#x201D; information retrieval application based on geo-visual clustering. , 2013, , .		0
56	Contribution estimation of participants for human interaction recognition. IEEJ Transactions on Electrical and Electronic Engineering, 2013, 8, 269-276.	1.4	5
57	A compact descriptor CHOG3D and its application in human action recognition. IEEJ Transactions on Electrical and Electronic Engineering, 2013, 8, 69-77.	1.4	5
58	Hand gesture based TV control system &#x2014; Towards both user- & machine-friendly gesture applications. , 2013, , .		13
59	Background Modeling Based on Bidirectional Analysis. , 2013, , .		24
60	Light Field Distortion Feature for Transparent Object Recognition. , 2013, , .		61
61	Object Detection Based on Spatio-temporal Light Field Sensing. IPSJ Transactions on Computer Vision and Applications, 2013, 5, 129-133.	4.4	5
62	Walking Velocity Model for Accurate and Massive Pedestrian Simulator. IEEJ Transactions on Electronics, Information and Systems, 2013, 133, 1779-1786.	0.2	6
63	Geolocation based Landmark Detection and Annotation. IEEJ Transactions on Electronics, Information and Systems, 2013, 133, 142-149.	0.2	0
64	WiP Abstract: Estimation of Electric Power Consumption of Individuals by Observing People's Activity. , 2012, , .		0
65	Maintenance of Blind Background Model for Robust Object Detection. IPSJ Transactions on Computer Vision and Applications, 2011, 3, 148-159.	4.4	1
66	Statistical Local Difference Pattern for Background Modeling. IPSJ Transactions on Computer Vision and Applications, 2011, 3, 198-210.	4.4	11
67	Improvement of early recognition of gesture patterns based on a self-organizing map. Artificial Life and Robotics, 2011, 16, 198-201.	1.2	2
68	Object Tracking with RFID. IEEJ Transactions on Industry Applications, 2011, 131, 441-447.	0.2	0
69	Message from the Guest Editors-In-Chief. IPSJ Transactions on Computer Vision and Applications, 2010, 2, 214-214.	4.4	0
70	Object Detection Based on Combining Multiple Background Modelings. IPSJ Transactions on Computer Vision and Applications, 2010, 2, 156-168.	4.4	1
71	Hybrid Background Modeling for Long-term and Short-term Illumination Changes. IEEJ Transactions on Electronics, Information and Systems, 2010, 130, 1524-1529.	0.2	4
72	Feature map sharing hypercolumn model for shift invariant face recognition. Artificial Life and Robotics, 2009, 14, 271-274.	1.2	1

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73	Visual Tracking of an Object with its Motion Information. IEEJ Transactions on Electronics, Information and Systems, 2009, 129, 977-984.	0.2	0
74	Object Detection Based on Fast and Low-Memory Hybrid Background Model. IEEJ Transactions on Electronics, Information and Systems, 2009, 129, 846-852.	0.2	2
75	Face recognition across illumination. Artificial Life and Robotics, 2008, 12, 33-37.	1.2	9
76	Face recognition under varying illumination using Mahalanobis self-organizing map. Artificial Life and Robotics, 2008, 13, 298-301.	1.2	14
77	Visual feature extraction using variable map-dimension Hypercolumn Model. , 2008, , .		6
78	Associative learning method in a hypercolumn model. Artificial Life and Robotics, 2007, 11, 76-81.	1.2	1
79	Early Recognition and Prediction of Gestures for Embodied Proactive Human Interface. Journal of the Robotics Society of Japan, 2006, 24, 954-963.	0.1	2
80	Title is missing!. Journal of the Robotics Society of Japan, 2001, 19, 427-432.	0.1	3
81	Hypercolumn model: A combination model of hierarchical self-organizing maps and neocognitron for image recognition. Systems and Computers in Japan, 2000, 31, 49-61.	0.2	8
82	Multithreaded architecture for multimedia processing. Integrated Computer-Aided Engineering, 2000, 7, 19-37.	4.6	2
83	Relation of binary image complexity to grayâ€scaled image thresholding. Systems and Computers in Japan, 1987, 18, 91-101.	0.2	4
84	Knowledge-based picture understanding of weather charts. Pattern Recognition, 1984, 17, 109-123.	8.1	4
85	Real-Time Human Proxy. , 0, , 269-287.		1