

# Myo-Taeg Lim

## List of Publications by Year in descending order

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111  
papers

1,903  
citations

279487

23  
h-index

276539

41  
g-index

111  
all docs

111  
docs citations

111  
times ranked

1676  
citing authors

#	ARTICLE	IF	CITATIONS
1	Remove and recover: Deep end-to-end two-stage attention network for single-shot heavy rain removal. Neurocomputing, 2022, 481, 216-227.	3.5	3
2	ADM-Net: attentional-deconvolution module-based net for noise-coupled traffic sign recognition. Multimedia Tools and Applications, 2022, 81, 23373-23397.	2.6	2
3	Reinforcement Learning for Autonomous Vehicle using MPC in Highway Situation. , 2022, , .		3
4	Contact Force Control During Soft Tissue Interaction Using Handheld Robot. , 2022, , .		0
5	Track Compensation Algorithm Using Free Space Information with Occupancy Grid Map. International Journal of Control, Automation and Systems, 2021, 19, 40-53.	1.6	3
6	Failure Detection for Semantic Segmentation on Road Scenes Using Deep Learning. Applied Sciences (Switzerland), 2021, 11, 1870.	1.3	4
7	Frequency-Based Haze and Rain Removal Network (FHRR-Net) with Deep Convolutional Encoder-Decoder. Applied Sciences (Switzerland), 2021, 11, 2873.	1.3	4
8	Path Planning Based on Obstacle-Dependent Gaussian Model Predictive Control for Autonomous Driving. Applied Sciences (Switzerland), 2021, 11, 3703.	1.3	13
9	Binary dense sift flow based two stream CNN for human action recognition. Multimedia Tools and Applications, 2021, 80, 35697-35720.	2.6	8
10	Tendon-Inspired Piezoelectric Sensor for Biometric Application. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2538-2547.	3.7	9
11	Combined Particle/FIR Filtering for Indoor Localization Based on Wireless Sensor Networks. , 2021, 1, 34-40.		0
12	Emotion Recognition Using Convolutional Neural Network with Selected Statistical Photoplethysmogram Features. Applied Sciences (Switzerland), 2020, 10, 3501.	1.3	33
13	Traffic Sign Recognition in Harsh Environment Using Attention Based Convolutional Pooling Neural Network. Neural Processing Letters, 2020, 51, 2551-2573.	2.0	15
14	Unbiased FIR Filtering with Incomplete Measurement Information. International Journal of Control, Automation and Systems, 2020, 18, 330-338.	1.6	6
15	FBG-referenced interrogating system using a double-ring erbium-doped fiber laser for high power and broadband. Optics Express, 2020, 28, 26870.	1.7	6
16	Obstacle Avoidance Path Planning based on Output Constrained Model Predictive Control. International Journal of Control, Automation and Systems, 2019, 17, 2850-2861.	1.6	27
17	Fast Emotion Recognition Based on Single Pulse PPG Signal with Convolutional Neural Network. Applied Sciences (Switzerland), 2019, 9, 3355.	1.3	60
18	Multi-target Tracking and Track Management Algorithm Based on UFIR Filter With Imperfect Detection Probability. International Journal of Control, Automation and Systems, 2019, 17, 3021-3034.	1.6	8

#	ARTICLE	IF	CITATIONS
19	Hybrid Particle/Extended Finite Memory Filter to Improve Target Tracking Accuracy of Radar Measurement in Harsh Environments. <i>Journal of Electrical Engineering and Technology</i> , 2019, 14, 1749-1758.	1.2	0
20	MIFT: A Moment-Based Local Feature Extraction Algorithm. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1503.	1.3	3
21	A Two-Level Recurrent Neural Network Language Model Based on the Continuous Bag-of-Words Model for Sentence Classification. <i>International Journal on Artificial Intelligence Tools</i> , 2019, 28, 1950002.	0.7	3
22	Linked adaptive neuro-fuzzy inference system for biosignal distortion detection system. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 37, 7725-7735.	0.8	0
23	Sensor Fusion and Compensation Algorithm for Vehicle Tracking with Front Camera and Corner Radar Sensors. , 2019, , .		2
24	Advanced digital image stabilization using similarity-constrained optimization. <i>Multimedia Tools and Applications</i> , 2019, 78, 16489-16506.	2.6	3
25	Convolution Neural Network with Selective Multi-Stage Feature Fusion: Case Study on Vehicle Rear Detection. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2468.	1.3	3
26	Sensor fusion for vehicle tracking based on the estimated probability. <i>IET Intelligent Transport Systems</i> , 2018, 12, 1386-1395.	1.7	5
27	A Real-Time Obstacle Avoidance Method for Autonomous Vehicles Using an Obstacle-Dependent Gaussian Potential Field. <i>Journal of Advanced Transportation</i> , 2018, 2018, 1-15.	0.9	36
28	Pattern matching for industrial object recognition using geometry-based vector mapping descriptors. <i>Pattern Analysis and Applications</i> , 2018, 21, 1167-1183.	3.1	3
29	Fuzzy H $\infty$ FIR Filtering for T $\infty$ S Fuzzy Systems with Quantization and Packet Dropout. <i>International Journal of Control, Automation and Systems</i> , 2018, 16, 961-971.	1.6	7
30	Fuzzy Preview Control for Half-vehicle Electro-hydraulic Suspension System. <i>International Journal of Control, Automation and Systems</i> , 2018, 16, 2489-2500.	1.6	32
31	Design of PTP TC/Slave Over Seamless Redundancy Network for Power Utility Automation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018, 67, 1617-1625.	2.4	8
32	Vehicle detection framework for challenging lighting driving environment based on feature fusion method using adaptive neuro-fuzzy inference system. <i>International Journal of Advanced Robotic Systems</i> , 2018, 15, 172988141877054.	1.3	8
33	Dynamic Output-Feedback Dissipative Control for T $\infty$ S Fuzzy Systems With Time-Varying Input Delay and Output Constraints. <i>IEEE Transactions on Fuzzy Systems</i> , 2017, 25, 511-526.	6.5	201
34	A novel particle filter-based digital phase-locked loop robust against quantization error. <i>International Journal of Control, Automation and Systems</i> , 2017, 15, 457-461.	1.6	7
35	Filtering of Discrete-Time Switched Neural Networks Ensuring Exponential Dissipative and $L_{\infty}$ Performances. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 3195-3207.	6.2	83
36	Accurate pinch detection using recent finite measurements for automotive anti-pinch sunroof systems. <i>International Journal of Control, Automation and Systems</i> , 2017, 15, 2443-2447.	1.6	4

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37	Particle filtering approach to membership function adjustment in fuzzy logic systems. Neurocomputing, 2017, 237, 166-174.	3.5	19
38	Accurate and Reliable Human Localization Using Composite Particle/FIR Filtering. IEEE Transactions on Human-Machine Systems, 2017, 47, 332-342.	2.5	45
39	Robust visual tracking framework in the presence of blurring by arbitrating appearance- and feature-based detection. Measurement: Journal of the International Measurement Confederation, 2017, 95, 50-69.	2.5	12
40	Distributed Hybrid Particle/FIR Filtering for Mitigating NLOS Effects in TOA-Based Localization Using Wireless Sensor Networks. IEEE Transactions on Industrial Electronics, 2017, 64, 5182-5191.	5.2	125
41	A vehicle detection using selective multi-stage features in convolutional neural networks. , 2017, , .		4
42	Sensor fusion for vehicle tracking with camera and radar sensor. , 2017, , .		27
43	Dense flow field algorithm using binary descriptor and modified energy function. , 2017, , .		0
44	Vision-based road region detection using probability map of color features of road. , 2017, , .		1
45	Improvement of driver health care system based on a contact-type bio sensor using an IMU sensor. , 2016, , .		1
46	B-HMAX: A fast binary biologically inspired model for object recognition. Neurocomputing, 2016, 218, 242-250.	3.5	26
47	Maximum likelihood FIR filter for visual object tracking. Neurocomputing, 2016, 216, 543-553.	3.5	17
48	Dominant orientation patch matching for HMAX. Neurocomputing, 2016, 193, 155-166.	3.5	11
49	Unbiased Finite-Memory Digital Phase-Locked Loop. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 798-802.	2.2	24
50	Switching Extensible FIR Filter Bank for Adaptive Horizon State Estimation With Application. IEEE Transactions on Control Systems Technology, 2016, 24, 1052-1058.	3.2	78
51	Dynamic output-feedback H $\infty$ control for active half-vehicle suspension systems with time-varying input delay. International Journal of Control, Automation and Systems, 2016, 14, 59-68.	1.6	70
52	Fuzzy horizon group shift FIR filtering for nonlinear systems with Takagi-Sugeno model. Neurocomputing, 2016, 174, 1013-1020.	3.5	17
53	Self-recovering extended Kalman filtering algorithm based on model-based diagnosis and resetting using an assisting FIR filter. Neurocomputing, 2016, 173, 645-658.	3.5	30
54	A Gaussian distributed resampling algorithm for mitigation of sample impoverishment in particle filters. International Journal of Control, Automation and Systems, 2015, 13, 1032-1036.	1.6	5

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55	New preceding vehicle tracking algorithm based on optimal unbiased finite memory filter. Measurement: Journal of the International Measurement Confederation, 2015, 73, 262-274.	2.5	66
56	A binary based HMAX model for object recognition. , 2015, , .		0
57	Self-recovering extended Kalman filter for frequency tracking. , 2015, , .		1
58	Home-legacy device intelligent control using ANFIS with data regeneration and resampling. , 2015, , .		1
59	Dissipative filter design for Takagi-Sugeno fuzzy neural networks. , 2015, , .		1
60	Image stabilization using FIR filters. , 2015, , .		2
61	&#x210B;&lt;inf&gt;&#x221E;&lt;/inf&gt; FIR filter design with missing measurements. , 2015, , .		0
62	L2-L&#x2013; Filtering for Takagi-Sugeno fuzzy neural networks based on Wirtinger-type inequalities. Neurocomputing, 2015, 153, 117-125.	3.5	43
63	Arbitration algorithm of FIR filter and optical flow based on ANFIS for visual object tracking. Measurement: Journal of the International Measurement Confederation, 2015, 75, 338-353.	2.5	27
64	Multi-target FIR tracking algorithm for Markov jump linear systems based on true-target decision-making. Neurocomputing, 2015, 168, 298-307.	3.5	27
65	Enhanced hierarchical model of object recognition based on a novel patch selection method in salient regions. IET Computer Vision, 2015, 9, 663-672.	1.3	12
66	Improving Reliability of Particle Filter-Based Localization in Wireless Sensor Networks via Hybrid Particle/FIR Filtering. IEEE Transactions on Industrial Informatics, 2015, 11, 1089-1098.	7.2	204
67	Weighted average extended FIR filter bank to manage the horizon size in nonlinear FIR filtering. International Journal of Control, Automation and Systems, 2015, 13, 138-145.	1.6	14
68	MDGHM-SURF: A robust local image descriptor based on modified discrete Gaussian-Hermite moment. Pattern Recognition, 2015, 48, 670-684.	5.1	31
69	Indoor Localization Using Unscented Kalman/FIR Hybrid Filter. Journal of Institute of Control, Robotics and Systems, 2015, 21, 1057-1063.	0.1	0
70	Multi-target tracking algorithm based on FIR filters. , 2014, , .		0
71	Adapting horizon size in finite impulse response filtering through switching extensible FIR filter bank. , 2014, , .		0
72	Discrete-time Takagi-Sugeno fuzzy finite impulse response filter. , 2014, , .		0

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73	Horizon group shift FIR filter: Alternative nonlinear filter using finite recent measurements. Measurement: Journal of the International Measurement Confederation, 2014, 57, 33-45.	2.5	54
74	Extended biologically inspired model for object recognition based on oriented Gaussian's Hermite moment. Neurocomputing, 2014, 139, 189-201.	3.5	15
75	Development of 3D camera-based robust bolt-hole detection system for bolting cabin. Automation in Construction, 2014, 44, 1-11.	4.8	6
76	Robot-based construction automation: An application to steel beam assembly (Part I). Automation in Construction, 2013, 32, 46-61.	4.8	79
77	Time-domain filtering for estimation of linear systems with colored noises using recent finite measurements. Measurement: Journal of the International Measurement Confederation, 2013, 46, 2792-2797.	2.5	21
78	Model predictive stabilizer for S fuzzy recurrent multilayer neural network models with general terminal weighting matrix. Neural Computing and Applications, 2013, 23, 271-277.	3.2	11
79	Local Environment Recognition System Using Modified SURF-Based 3D Panoramic Environment Map for Obstacle Avoidance of a Humanoid Robot. International Journal of Advanced Robotic Systems, 2013, 10, 275.	1.3	4
80	Obstacle Avoidance Method for Multi-Agent Robots Using IR Sensor and Image Information. Journal of Institute of Control, Robotics and Systems, 2012, 18, 1122-1131.	0.1	3
81	Bolting Cabin Assistance System Using a Sensor Network. International Journal of Advanced Robotic Systems, 2012, 9, 107.	1.3	2
82	Feasibility of Obtaining Quantitative 3-Dimensional Information Using Conventional Endoscope: A Pilot Study. Clinical Endoscopy, 2012, 45, 182.	0.6	6
83	Analysis of grasp stability for a multi-fingered robot hand by using polygon segmentation algorithm. , 2011, , .		0
84	Analysis grasp stability for multi-fingered robot hand. , 2010, , .		3
85	Stereo vision based 3D modeling system for mobile robot. , 2010, , .		4
86	Tumor size measurement and feature point extraction using an endoscope. , 2010, , .		0
87	Bolting robot assistance system using image processing. , 2010, , .		1
88	Novel adaptive particle filter using adjusted variance and its application. International Journal of Control, Automation and Systems, 2010, 8, 801-807.	1.6	13
89	Parallel Optimal Control for Weakly Coupled Nonlinear Systems Using Successive Galerkin Approximation. IEEE Transactions on Automatic Control, 2008, 53, 1542-1547.	3.6	17
90	Localization based on the Hybrid Extended Kalman Filter with a highly accurate odometry model of a mobile robot. , 2008, , .		2

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91	Hybrid Extended Kalman Filter-based localization with a highly accurate odometry model of a mobile robot. , 2008, , .		8
92	Combined Preorder and Postorder Traversal Algorithm for the Analysis of Singular Systems by Haar Wavelets. Mathematical Problems in Engineering, 2008, 2008, 1-16.	0.6	1
93	Pre-acting manipulator for shock isolation in steel construction. , 2007, , .		0
94	Fuzzy adaptive particle filter for a positioning beacon system. , 2007, , .		3
95	Localization of Mobile Robot using Particle Filter. , 2006, , .		25
96	Real-time 3D video avatar in mixed reality: An implementation for immersive telecommunication. Simulation and Gaming, 2006, 37, 491-506.	1.2	4
97	LQG Control for Nonstandard Singularly Perturbed Discrete-Time Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2004, 126, 860-864.	0.9	11
98	Wavelet-based uniformity of plasma etching surface. IEEE Transactions on Plasma Science, 2003, 31, 1313-1316.	0.6	3
99	Qualitative Interpretation of Etch Profile Nonuniformity Using a Wavelet and a Neural Network. Journal of the Korean Physical Society, 2003, 43, 817-821.	0.3	3
100	Near-optimal control for the singularly perturbed bilinear systems using successive approximation method. , 2001, , .		4
101	Subsystem-Level $H_{\infty}$ Kalman Filtering of Weakly Coupled Linear Stochastic Systems Composed of $N$ Subsystems. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2001, 2001, 117-122.	0.1	0
102	Reduced-order $H_{\infty}$ optimal filtering for systems with slow and fast modes. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 250-254.	0.1	26
103	Subsystem-level optimal control of weakly coupled linear stochastic systems composed of $N$ subsystems. Optimal Control Applications and Methods, 1999, 20, 93-112.	1.3	13
104	Transformations for decomposition of linear singularly perturbed systems with $N$ -fast subsystems. , 1998, , .		0
105	Optimal control of linear nonstandard singularly perturbed discrete systems. , 0, , .		1
106	Composite control for singularly perturbed bilinear systems with successive Galerkin approximation. , 0, , .		0
107	Design of a controller using successive approximation for singularly perturbed bilinear systems. , 0, , .		0
108	Finite time optimal control for the bilinear systems by using the successive approximation method. , 0, , .		2

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109	Robust adaptive control of uncertain nonlinear systems with time-varying parameters. , 0, , .		0
110	Robust $H_{\infty}$ state feedback control for bilinear systems. , 0, , .		2
111	LQG control for nonstandard singularly perturbed discrete time systems. , 0, , .		3