Myo-Taeg Lim

List of Publications by Year
in descending order

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	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
2	Dynamic Output-Feedback Dissipative Control for T–S Fuzzy Systems With Time-Varying Input Delay and Output Constraints. IEEE Transactions on Fuzzy Systems, 2017, 25, 511-526.	6.5	201
3	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
4	Filtering of Discrete-Time Switched Neural Networks Ensuring Exponential Dissipative and l_{2} – l_{∞} Performances. IEEE Transactions on Cybernetics, 2017, 47, 3195-3207.	6.2	83
5	Robot-based construction automation: An application to steel beam assembly (Part I). Automation in Construction, 2013, 32, 46-61.	4.8	79
6	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
7	Dynamic output-feedback H ∞ 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
8	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
9	Fast Emotion Recognition Based on Single Pulse PPG Signal with Convolutional Neural Network. Applied Sciences (Switzerland), 2019, 9, 3355.	1.3	60
10	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
11	Accurate and Reliable Human Localization Using Composite Particle/FIR Filtering. IEEE Transactions on Human-Machine Systems, 2017, 47, 332-342.	2.5	45
12	L2-L ∞ Filtering for Takagi–Sugeno fuzzy neural networks based on Wirtinger-type inequalities. Neurocomputing, 2015, 153, 117-125.	3.5	43
13	A Real-Time Obstacle Avoidance Method for Autonomous Vehicles Using an Obstacle-Dependent Gaussian Potential Field. Journal of Advanced Transportation, 2018, 2018, 1-15.	0.9	36
14	Emotion Recognition Using Convolutional Neural Network with Selected Statistical Photoplethysmogram Features. Applied Sciences (Switzerland), 2020, 10, 3501.	1.3	33
15	Fuzzy Preview Control for Half-vehicle Electro-hydraulic Suspension System. International Journal of Control, Automation and Systems, 2018, 16, 2489-2500.	1.6	32
16	MDGHM-SURF: A robust local image descriptor based on modified discrete Gaussian–Hermite moment. Pattern Recognition, 2015, 48, 670-684.	5.1	31
17	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
18	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

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19	Multi-target FIR tracking algorithm for Markov jump linear systems based on true-target decision-making. Neurocomputing, 2015, 168, 298-307.	3.5	27
20	Sensor fusion for vehicle tracking with camera and radar sensor. , 2017, , .		27
21	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
22	Reduced-order H/sub âˆž/ 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
23	B-HMAX: A fast binary biologically inspired model for object recognition. Neurocomputing, 2016, 218, 242-250.	3.5	26
24	Localization of Mobile Robot using Particle Filter. , 2006, , .		25
25	Unbiased Finite-Memory Digital Phase-Locked Loop. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 798-802.	2.2	24
26	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
27	Particle filtering approach to membership function adjustment in fuzzy logic systems. Neurocomputing, 2017, 237, 166-174.	3.5	19
28	Parallel Optimal Control for Weakly Coupled Nonlinear Systems Using Successive Galerkin Approximation. IEEE Transactions on Automatic Control, 2008, 53, 1542-1547.	3.6	17
29	Maximum likelihood FIR filter for visual object tracking. Neurocomputing, 2016, 216, 543-553.	3.5	17
30	Fuzzy horizon group shift FIR filtering for nonlinear systems with Takagiâ€"Sugeno model. Neurocomputing, 2016, 174, 1013-1020.	3.5	17
31	Extended biologically inspired model for object recognition based on oriented Gaussianâ€"Hermite moment. Neurocomputing, 2014, 139, 189-201.	3.5	15
32	Traffic Sign Recognition in Harsh Environment Using Attention Based Convolutional Pooling Neural Network. Neural Processing Letters, 2020, 51, 2551-2573.	2.0	15
33	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
34	Subsystem-level optimal control of weakly coupled linear stochastic systems composed ofN subsystems. Optimal Control Applications and Methods, 1999, 20, 93-112.	1.3	13
35	Novel adaptive particle filter using adjusted variance and its application. International Journal of Control, Automation and Systems, 2010, 8, 801-807.	1.6	13
36	Path Planning Based on Obstacle-Dependent Gaussian Model Predictive Control for Autonomous Driving. Applied Sciences (Switzerland), 2021, 11, 3703.	1.3	13

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37	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
38	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
39	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
40	Model predictive stabilizer for Tâ€"S fuzzy recurrent multilayer neural network models with general terminal weighting matrix. Neural Computing and Applications, 2013, 23, 271-277.	3.2	11
41	Dominant orientation patch matching for HMAX. Neurocomputing, 2016, 193, 155-166.	3.5	11
42	Tendon-Inspired Piezoelectric Sensor for Biometric Application. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2538-2547.	3.7	9
43	Hybrid Extended Kalman Filter-based localization with a highly accurate odometry model of a mobile robot. , 2008, , .		8
44	Design of PTP TC/Slave Over Seamless Redundancy Network for Power Utility Automation. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1617-1625.	2.4	8
45	Vehicle detection framework for challenging lighting driving environment based on feature fusion method using adaptive neuro-fuzzy inference system. International Journal of Advanced Robotic Systems, 2018, 15, 172988141877054.	1.3	8
46	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
47	Binary dense sift flow based two stream CNN for human action recognition. Multimedia Tools and Applications, 2021, 80, 35697-35720.	2.6	8
48	A novel particle filter-based digital phase-locked loop robust against quantization error. International Journal of Control, Automation and Systems, 2017, 15, 457-461.	1.6	7
49	Fuzzy Hâˆž FIR Filtering for Tâ€"S Fuzzy Systems with Quantization and Packet Dropout. International Journal of Control, Automation and Systems, 2018, 16, 961-971.	1.6	7
50	Development of 3D camera-based robust bolt-hole detection system for bolting cabin. Automation in Construction, 2014, 44, 1-11.	4.8	6
51	Unbiased FIR Filtering with Incomplete Measurement Information. International Journal of Control, Automation and Systems, 2020, 18, 330-338.	1.6	6
52	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
53	Feasibility of Obtaining Quantitative 3-Dimensional Information Using Conventional Endoscope: A Pilot Study. Clinical Endoscopy, 2012, 45, 182.	0.6	6
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	Sensor fusion for vehicle tracking based on the estimated probability. IET Intelligent Transport Systems, 2018, 12, 1386-1395.	1.7	5
56	Near-optimal control for the singularly perturbed bilinear systems using successive approximation method. , 2001, , .		4
57	Real-time 3D video avatar in mixed reality: An implementation for immersive telecommunication. Simulation and Gaming, 2006, 37, 491-506.	1.2	4
58	Stereo vision based 3D modeling system for mobile robot. , 2010, , .		4
59	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
60	Accurate pinch detection using recent finite measurements for automotive anti-pinch sunroof systems. International Journal of Control, Automation and Systems, 2017, 15, 2443-2447.	1.6	4
61	A vehicle detection using selective multi-stage features in convolutional neural networks. , 2017, , .		4
62	Failure Detection for Semantic Segmentation on Road Scenes Using Deep Learning. Applied Sciences (Switzerland), 2021, 11, 1870.	1.3	4
63	Frequency-Based Haze and Rain Removal Network (FHRR-Net) with Deep Convolutional Encoder-Decoder. Applied Sciences (Switzerland), 2021, 11, 2873.	1.3	4
64	LQG control for nonstandard singularly perturbed discrete time systems. , 0, , .		3
65	Wavelet-based uniformity of plasma etching surface. IEEE Transactions on Plasma Science, 2003, 31, 1313-1316.	0.6	3
66	Fuzzy adaptive particle filter for a positioning beacon system. , 2007, , .		3
67	Analysis grasp stability for multi-fingered robot hand. , 2010, , .		3
68	Convolution Neural Network with Selective Multi-Stage Feature Fusion: Case Study on Vehicle Rear Detection. Applied Sciences (Switzerland), 2018, 8, 2468.	1.3	3
69	Pattern matching for industrial object recognition using geometry-based vector mapping descriptors. Pattern Analysis and Applications, 2018, 21, 1167-1183.	3.1	3
70	MIFT: A Moment-Based Local Feature Extraction Algorithm. Applied Sciences (Switzerland), 2019, 9, 1503.	1.3	3
71	A Two-Level Recurrent Neural Network Language Model Based on the Continuous Bag-of-Words Model for Sentence Classification. International Journal on Artificial Intelligence Tools, 2019, 28, 1950002.	0.7	3
72	Advanced digital image stabilization using similarity-constrained optimization. Multimedia Tools and Applications, 2019, 78, 16489-16506.	2.6	3

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73	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
74	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
75	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
76	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
77	Reinforcement Learning for Autonomous Vehicle using MPC in Highway Situation. , 2022, , .		3
78	Finite time optimal control for the bilinear systems by using the successive approximation method. , 0, , .		2
79	Robust H/sub âˆž/ state feedback control for bilinear systems. , 0, , .		2
80	Localization based on the Hybrid Extended Kalman Filter with a highly accurate odometry model of a mobile robot. , 2008, , .		2
81	Image stabilization using FIR filters. , 2015, , .		2
82	Sensor Fusion and Compensation Algorithm for Vehicle Tracking with Front Camera and Corner Radar Sensors. , 2019, , .		2
83	Bolting Cabin Assistance System Using a Sensor Network. International Journal of Advanced Robotic Systems, 2012, 9, 107.	1.3	2
84	ADM-Net: attentional-deconvolution module-based net for noise-coupled traffic sign recognition. Multimedia Tools and Applications, 2022, 81, 23373-23397.	2.6	2
85	Optimal control of linear nonstandard singularly perturbed discrete systems. , 0, , .		1
86	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
87	Bolting robot assistance system using image processing. , 2010, , .		1
88	Self-recovering extended Kalman filter for frequency tracking. , 2015, , .		1
89	Home-legacy device intelligent control using ANFIS with data regeneration and resampling. , 2015, , .		1
90	Dissipative filter design for Takagi-Sugeno fuzzy neural networks. , 2015, , .		1

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91	Improvement of driver health care system based on a contact-type bio sensor using an IMU sensor. , 2016, , .		1
92	Vision-based road region detection using probability map of color features of road. , 2017, , .		1
93	Transformations for decomposition of linear singularly perturbed systems with N-fast subsystems. , 1998, , .		0
94	Composite control for singularly perturbed bilinear systems with successive Galerkin approximation. , 0, , .		0
95	Design of a controller using successive approximation for singularly perturbed bilinear systems. , 0, , .		0
96	Robust adaptive control of uncertain nonlinear systems with time-varying parameters. , 0, , .		0
97	Pre-acting manipulator for shock isolation in steel construction. , 2007, , .		0
98	Tumor size measurement and feature point extraction using an endoscope. , 2010, , .		0
99	Analysis of grasp stability for a multi-fingered robot hand by using polygon segmentation algorithm. , 2011, , .		0
100	Multi-target tracking algorithm based on FIR filters. , 2014, , .		0
101	Adapting horizon size in finite impulse response filtering through switching extensible FIR filter bank. , 2014, , .		0
102	Discrete-time Takagi-Sugeno fuzzy finite impulse response filter. , 2014, , .		0
103	A binary based HMAX model for object recognition. , 2015, , .		0
104	&#x210B;<inf>&#x221E;</inf> FIR filter design with missing measurements. , 2015, , .		0
105	Dense flow field algorithm using binary descriptor and modified energy function. , 2017, , .		0
106	Hybrid Particle/Extended Finite Memory Filter to Improve Target Tracking Accuracy of Radar Measurement in Harsh Environments. Journal of Electrical Engineering and Technology, 2019, 14, 1749-1758.	1.2	0
107	Linked adaptive neuro-fuzzy inference system for biosignal distortion detection system. Journal of Intelligent and Fuzzy Systems, 2019, 37, 7725-7735.	0.8	0
108	Subsystem-Level H_{∞} 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

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109	Indoor Localization Using Unscented Kalman/FIR Hybrid Filter. Journal of Institute of Control, Robotics and Systems, 2015, 21, 1057-1063.	0.1	0
110	Combined Particle/FIR Filtering for Indoor Localization Based on Wireless Sensor Networks. , 2021, 1, 34-40.		0
111	Contact Force Control During Soft Tissue Interaction Using Handheld Robot. , 2022, , .		0