

Sung-Shin Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

494

citations

11

h-index

19

g-index

97

ext. papers

694

ext. citations

2.5

avg, IF

3.68

L-index

#	Paper	IF	Citations
66	LED Module Calibration Strategy to Improve Measurement Accuracy of TRO Concentration. <i>Electronics (Switzerland)</i> , 2021 , 10, 2410	2.6	
65	A Novel Convective Storm Location Prediction Model Based on Machine Learning Methods. <i>Atmosphere</i> , 2021 , 12, 343	2.7	1
64	Adaptive Data Augmentation to Achieve Noise Robustness and Overcome Data Deficiency for Deep Learning. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5586	2.6	1
63	Digital Twin for Operation of Microgrid: Optimal Scheduling in Virtual Space of Digital Twin. <i>Energies</i> , 2020 , 13, 5504	3.1	10
62	Wasserstein Generative Adversarial Networks Based Data Augmentation for Radar Data Analysis. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1449	2.6	0
61	Data Augmentation Method by Applying Color Perturbation of Inverse PSNR and Geometric Transformations for Object Recognition Based on Deep Learning. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3755	2.6	6
60	Stacked Auto-Encoder Based CNC Tool Diagnosis Using Discrete Wavelet Transform Feature Extraction. <i>Processes</i> , 2020 , 8, 456	2.9	3
59	CoCu2O4 nanoflowers architecture as an electrode material for battery type supercapacitor with improved electrochemical performance. <i>Nano Structures Nano Objects</i> , 2020 , 24, 100618	5.6	7
58	Data-Driven Approach to Attemperator Steam Temperature Prediction in Biomass Power Plant. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 1453-1462	1.4	1
57	Collaborative Learning based on Convolutional Features and Correlation Filter for Visual Tracking. <i>International Journal of Control, Automation and Systems</i> , 2018 , 16, 335-349	2.9	7
56	A Fault Isolation Method via Classification and Regression Tree-Based Variable Ranking for Drum-Type Steam Boiler in Thermal Power Plant. <i>Energies</i> , 2018 , 11, 1142	3.1	3
55	A New Input Selection Algorithm Using the Group Method of Data Handling and Bootstrap Method for Support Vector Regression Based Hourly Load Forecasting. <i>Energies</i> , 2018 , 11, 2870	3.1	5
54	Convolutional Autoencoder Based Feature Extraction in Radar Data Analysis 2018 ,		4
53	Color Decision System Based on Deep Learning and Fuzzy Inference System 2018 ,		2
52	Global Map Generation using LiDAR and Stereo Camera for Initial Positioning of Mobile Robot 2018 ,		2
51	A novel plugged tube detection and identification approach for final super heater in thermal power plant using principal component analysis. <i>Energy</i> , 2017 , 126, 404-418	7.9	12
50	Visual Tracking Based on Complementary Learners with Distractor Handling. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-13	1.1	2

49	Automatic brightness adjustment system by fuzzy inference system for object recognition 2017 ,		1
48	Improved positioning method for Magnetic Encoder type AGV using Extended Kalman Filter and Encoder Compensation Method. <i>International Journal of Control, Automation and Systems</i> , 2017 , 15, 1844-1856 ^{1,2}	2.9	12
47	Multi-scale color features based on correlation filter for visual tracking 2017 ,		1
46	Synthetic minority over-sampling technique based on fuzzy c-means clustering for imbalanced data 2017 ,		4
45	Ensemble Classification for Anomalous Propagation Echo Detection with Clustering-Based Subset-Selection Method. <i>Atmosphere</i> , 2017 , 8, 11	2.7	2
44	Convolutional Shallow Features for Performance Improvement of Histogram of Oriented Gradients in Visual Object Tracking. <i>Mathematical Problems in Engineering</i> , 2017 , 2017, 1-9	1.1	1
43	Gaussian-Based SMOTE Algorithm for Solving Skewed Class Distributions. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , 2017 , 17, 229-234	1.8	24
42	A Clustering-Based Fault Detection Method for Steam Boiler Tube in Thermal Power Plant. <i>Journal of Electrical Engineering and Technology</i> , 2016 , 11, 848-859	1.4	9
41	Black-Box Classifier Interpretation Using Decision Tree and Fuzzy Logic-Based Classifier Implementation. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , 2016 , 16, 27-35	1.8	10
40	Locally-Weighted Polynomial Neural Network for Daily Short-Term Peak Load Forecasting. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , 2016 , 16, 163-172	1.8	6
39	Anomalous Propagation Echo Classification of Imbalanced Radar Data with Support Vector Machine. <i>Advances in Meteorology</i> , 2016 , 2016, 1-13	1.7	2
38	Interval type-2 fuzzy k-nearest neighbors for line-shaped echo identification 2016 ,		1
37	Position coordinate representation of flying arrow and analysis of its performance indicator. <i>International Journal of Control, Automation and Systems</i> , 2016 , 14, 1037-1046	2.9	1
36	Fast Generative Approach Based on Sparse Representation for Visual Tracking 2016 ,		2
35	Automatic structure identification of TSK fuzzy model for stock index forecasting 2015 ,		3
34	Grade prediction of meat quality in Korean Native cattle using neural network 2015 ,		1
33	Map building of indoor environment using laser range finder and geometrics 2015 ,		2
32	Observer-Based FL-SMC Active Damping for Back-to-Back PWM Converter with LCL Grid Filter. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , 2015 , 15, 200-207	1.8	

31	Fuzzy logic control method to reduce swing rebound phenomenon of excavator 2014 ,		2
30	Application of real-time feedback control strategies based on effluent NH ₄ -N and NO _x -N concentrations in an A ₂ /O process. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 1578-1587	2.8	5
29	Independence localization system for Mecanum wheel AGV 2013 ,		1
28	Real-Time Detection and Filtering of Chaff Clutter from Single-Polarization Doppler Radar Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013 , 30, 873-895	2	12
27	Genetic based feed-forward neural network training for chaff cluster detection 2012 ,		4
26	Implementation of real-time positioning system using extended Kalman filter and artificial landmark on ceiling. <i>Journal of Mechanical Science and Technology</i> , 2012 , 26, 949-958	1.6	22
25	Inertial navigation system for an automatic guided vehicle with Mecanum wheels. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 379-386	1.7	24
24	Modular neural networks prediction model based A ₂ /O process control system. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 905-913	1.7	9
23	Active Synchronizing Control of a Microgrid. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 3707-3719	7.2	139
22	New Ideas for a Soft Synchronizer Applied to CHP Cogeneration. <i>IEEE Transactions on Power Delivery</i> , 2011 , 26, 11-21	4.3	13
21	On-line monitoring of oil in water using transmitted-scattered lights and clustering-based hierarchical TSK fuzzy systems 2010 ,		2
20	Driving control of mobile robot with Mecanum wheel using fuzzy inference system 2010 ,		3
19	Error pose correction of mobile robot for SLAM problem using laser range finder based on particle filter 2010 ,		4
18	Optimization of silicon solar cell fabrication based on neural network and genetic programming modeling. <i>Soft Computing</i> , 2010 , 14, 161-169	3.5	12
17	Modified genetic programming combining with particle swarm optimization and performance criterion in solar cell fabrication. <i>International Journal of Control, Automation and Systems</i> , 2010 , 8, 841-849	2.9	3
16	Simultaneous localization and mapping of a wheel-based autonomous vehicle with ultrasonic sensors. <i>Artificial Life and Robotics</i> , 2009 , 14, 186-190	0.6	8
15	A movie rating prediction system of user propensity analysis based on collaborative filtering and fuzzy system 2009 ,		7
14	Learning Bayesian networks based diagnosis system for wastewater treatment process with sensor data. <i>Water Science and Technology</i> , 2009 , 59, 1885-1885	2.2	

13	Fault diagnosis of identical brushless DC motors under patterns of state change 2008 ,		1
12	Extraction of muscle areas from ultrasonographic images using refined histogram stretching and fascia information 2008 ,		1
11	An accurate localization for mobile robot using extended Kalman filter and sensor fusion 2008 ,		10
10	Vector quantizer of medical image using wavelet transform and enhanced SOM algorithm. <i>Neural Computing and Applications</i> , 2006 , 15, 245-251	4.8	8
9	Fault diagnostic of induction motors for equipment reliability and health maintenance based upon Fourier and wavelet analysis. <i>Artificial Life and Robotics</i> , 2005 , 9, 112-116	0.6	9
8	Extraction of quantitative and image information from flame images of steam boiler burners. <i>Artificial Life and Robotics</i> , 2004 , 8, 202-207	0.6	1
7	Extraction of quantitative and image information from flame images of steam boiler burners. <i>Artificial Life and Robotics</i> , 2004 , 8, 202-207	0.6	
6	Design and optimization of fuzzy controllers based on the operator's knowledge. <i>Artificial Life and Robotics</i> , 2002 , 6, 92-98	0.6	2
5	Design and implementation of an adaptive neural-network compensator for control systems. <i>IEEE Transactions on Industrial Electronics</i> , 2001 , 48, 416-423	8.9	15
4	A polynomial fuzzy neural network for modeling and control. <i>Artificial Life and Robotics</i> , 2000 , 4, 162-166.	0.6	0
3	Application of data mining and artificial modeling for coagulant dosage of water treatment plants corresponding to water quality		1
2	Fourier and wavelet transformations for the fault detection of induction motor with stator current		3
1	Wavelet analysis to fabric defects detection in weaving processes		16