Muhammad Hisyam Lee

List of Publications by Year
in descending order

132 papers	2,411 citations	279778 23 h-index	254170 43 g-index
132 all docs	132 docs citations	132 times ranked	1979 citing authors

#	Article	IF	Citations
1	Hotelling T^2 control chart based on bivariate ranked set schemes. Communications in Statistics Part B: Simulation and Computation, 2022, 51, 1-28.	1.2	11
2	Adaptive CUSUM Location Control Charts Based on Score Functions: An Application in Semiconductor Wafer Field. Arabian Journal for Science and Engineering, 2022, 47, 3725-3749.	3.0	5
3	New robust location control charts for unknown process distribution with practical significance. Soft Computing, 2022, 26, 137-153.	3.6	2
4	Exact computational methods for univariate and multivariate control charts under runs rules. Computers and Industrial Engineering, 2022, 163, 107821.	6.3	5
5	Improving Penalized Logistic Regression Model with Missing Values in High-Dimensional Data. International Journal of Online and Biomedical Engineering, 2022, 18, 40-54.	1.4	0
6	Adaptive Memory Control Charts Constructed on Generalized Likelihood Ratio Test to Monitor Process Location. Arabian Journal for Science and Engineering, 2022, 47, 15049-15081.	3.0	1
7	Improving grasshopper optimization algorithm for hyperparameters estimation and feature selection in support vector regression. Chemometrics and Intelligent Laboratory Systems, 2021, 208, 104196.	3.5	36
8	Radiological hazard associated with amang processing industry in Peninsular Malaysia and its environmental impacts. Ecotoxicology and Environmental Safety, 2021, 208, 111727.	6.0	12
9	Gene selection and classification of microarray gene expression data based on a new adaptive L1-norm elastic net penalty. Informatics in Medicine Unlocked, 2021, 24, 100622.	3.4	10
10	Generalized Hotelling T^2 control chart based on bivariate ranked set techniques with runs rules. Transactions of the Institute of Measurement and Control, 2021, 43, 2180-2195.	1.7	3
11	A robust multivariate Shewhart chart for contaminated normal environments. Quality and Reliability Engineering International, 2021, 37, 2665-2684.	2.3	1
12	PCA-based Hotelling's T2 chart with fast minimum covariance determinant (FMCD) estimator and kernel density estimation (KDE) for network intrusion detection. Computers and Industrial Engineering, 2021, 158, 107447.	6.3	15
13	Adaptive Elastic Net with Distance Correlation on the Grouping Effect and Robust of High Dimensional Stock Market Price. Sains Malaysiana, 2021, 50, 2755-2764.	0.5	0
14	Indonesian electricity load forecasting using singular spectrum analysis, fuzzy systems and neural networks. Energy, 2020, 190, 116408.	8.8	54
15	Robust adaptive multivariate Hotelling's T2 control chart based on kernel density estimation for intrusion detection system. Expert Systems With Applications, 2020, 145, 113105.	7.6	32
16	QSAR model for predicting neuraminidase inhibitors of influenza A viruses (H1N1) based on adaptive grasshopper optimization algorithm. SAR and QSAR in Environmental Research, 2020, 31, 803-814.	2.2	17
17	Multivariate cumulative sum control chart and measure of process capability based on bivariate ranked set schemes. Computers and Industrial Engineering, 2020, 150, 106891.	6.3	9
18	High-dimensional QSAR/QSPR classification modeling based on improving pigeon optimization algorithm. Chemometrics and Intelligent Laboratory Systems, 2020, 206, 104170.	3.5	20

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19	Multivariate Control Chart Based on Kernel PCA for Monitoring Mixed Variable and Attribute Quality Characteristics. Symmetry, 2020, 12, 1838.	2.2	7
20	Time series forecasting using singular spectrum analysis, fuzzy systems and neural networks. MethodsX, 2020, 7, 101015.	1.6	19
21	Variable selection of yearly high dimension stock market price using ordered homogenous pursuit lasso. AIP Conference Proceedings, 2020, , .	0.4	0
22	Outliers Detection Models in Shewhart Control Charts; an Application in Photolithography: A Semiconductor Manufacturing Industry. Mathematics, 2020, 8, 857.	2.2	12
23	Quantitative structure-activity relationship model for classifying the diverse series of antifungal agents using ratio weighted penalized logistic regression. SAR and QSAR in Environmental Research, 2020, 31, 571-583.	2.2	8
24	An improved process monitoring by mixed multivariate memory control charts: An application in wind turbine field. Computers and Industrial Engineering, 2020, 142, 106343.	6.3	34
25	Generalized skewness correction structure of $\bar{X}$ control chart for unknown process parameters and skewed probability distributions. Journal of Statistical Computation and Simulation, 2020, 90, 1349-1372.	1.2	5
26	Artificial neural network forecasting performance with missing value imputations. IAES International Journal of Artificial Intelligence, 2020, 9, 33.	0.8	4
27	Imputation Techniques for Incomplete Load Data Based on Seasonality and Orientation of the Missing Values. Sains Malaysiana, 2020, 49, 1165-1174.	0.5	0
28	Application of Quality Control Charts for Early Detection of Flood Hazards. Polish Journal of Environmental Studies, 2020, 29, 4241-4248.	1.2	0
29	Air Pollutant Index Calendar-Based Graphics for Visualizing Trends Profiling and Analysis. Sains Malaysiana, 2020, 49, 201-209.	0.5	3
30	A two-stage sparse logistic regression for optimal gene selection in high-dimensional microarray data classification. Advances in Data Analysis and Classification, 2019, 13, 753-771.	1.4	46
31	Residual-based maximum MCUSUM control chart for joint monitoring the mean and variability of multivariate autocorrelated processes. Production and Manufacturing Research, 2019, 7, 364-394.	1.5	11
32	A combination index measurement in forecasting daily air pollutant index. AIP Conference Proceedings, 2019, , .	0.4	1
33	Generalized Performance Measures of $\overline{X}-$ Control Charts Based on Different Sampling Schemes. Journal of Probability and Statistics, 2019, 2019, 1-11.	0.7	2
34	An adaptive EWMA chart with CUSUM accumulate error-based shift estimator for efficient process dispersion monitoring. Computers and Industrial Engineering, 2019, 135, 236-253.	6.3	15
35	A QSAR model for predicting antidiabetic activity of dipeptidyl peptidase-IV inhibitors by enhanced binary gravitational search algorithm. SAR and QSAR in Environmental Research, 2019, 30, 403-416.	2.2	8
36	Short-term load forecasting by using a combined method of convolutional neural networks and fuzzy time series. Energy, 2019, 175, 365-377.	8.8	202

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37	QSAR classification model for diverse series of antifungal agents based on improved binary differential search algorithm. SAR and QSAR in Environmental Research, 2019, 30, 131-143.	2.2	16
38	An adaptive approach to EWMA dispersion chart using Huber and Tukey functions. Quality and Reliability Engineering International, 2019, 35, 1542-1581.	2.3	25
39	A Hybrid Singular Spectrum Analysis and Neural Networks for Forecasting Inflow and Outflow Currency of Bank Indonesia. Communications in Computer and Information Science, 2019, , 3-18.	0.5	2
40	On efficient construction and evaluation of runs rulesâ€"based control chart for known and unknown parameters under different distributions. Quality and Reliability Engineering International, 2019, 35, 582-599.	2.3	12
41	VAR and GSTAR-Based Feature Selection in Support Vector Regression for Multivariate Spatio-Temporal Forecasting. Communications in Computer and Information Science, 2019, , 46-57.	0.5	10
42	Enhanced Cumulative Sum Charts Based on Ranked Set Sampling. ICSA Book Series in Statistics, 2019, , 79-108.	0.2	1
43	New Hybrid Statistical Method and Machine Learning for PM10 Prediction. Communications in Computer and Information Science, 2019, , 142-155.	0.5	3
44	Fabrication of Low-Cost Hip Implant using Direct Metal Laser Sintering Technique. International Journal of Recent Technology and Engineering, 2019, 8, 4544-4547.	0.2	1
45	Estimating the function of oscillatory components in SSA-based forecasting model. International Journal of Advances in Intelligent Informatics, 2019, 5, 11.	1.2	1
46	Deep Neural Network for Forecasting Inflow and Outflow in Indonesia. Sains Malaysiana, 2019, 48, 1787-1798.	0.5	4
47	A penalized quantitative structureâ€"property relationship study on melting point of energetic carbocyclic nitroaromatic compounds using adaptive bridge penalty. SAR and QSAR in Environmental Research, 2018, 29, 339-353.	2.2	7
48	Generalized dynamic principal component for monthly nonstationary stock market price in technology sector. Journal of Physics: Conference Series, 2018, 1132, 012076.	0.4	0
49	COMPARISON BETWEEN HYBRID QUANTILE REGRESSION NEURAL NETWORK AND AUTOREGRESSIVE INTEGRATED MOVING AVERAGE WITH EXOGENOUS VARIABLE FOR FORECASTING OF CURRENCY INFLOW AND OUTFLOW IN BANK INDONESIA. Jurnal Teknologi (Sciences and Engineering), 2018, 80, .	0.4	0
50	Amplitude-Modulated Sinusoidal Model for The Sinusoidal Components of SSA Decomposition. , 2018, , .		2
51	Hybrid SSA-TSR-ARIMA for water demand forecasting. International Journal of Advances in Intelligent Informatics, 2018, 4, 238.	1.2	7
52	On the Performance of Control Charts for Simultaneous Monitoring of Location and Dispersion Parameters. Quality and Reliability Engineering International, 2017, 33, 37-56.	2.3	16
53	Short-term load forecasting method based on fuzzy time series, seasonality and long memory process. International Journal of Approximate Reasoning, 2017, 83, 196-217.	3.3	100
54	A new adaptive L1-norm for optimal descriptor selection of high-dimensional QSAR classification model for anti-hepatitis C virus activity of thiourea derivatives. SAR and QSAR in Environmental Research, 2017, 28, 75-90.	2.2	31

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55	High‐dimensional QSAR classification model for anti‐hepatitis C virus activity of thiourea derivatives based on the sparse logistic regression model with a bridge penalty. Journal of Chemometrics, 2017, 31, e2889.	1.3	25
56	Assessment of impact of urbanisation on background radiation exposure and human health risk estimation in Kuala Lumpur, Malaysia. Environment International, 2017, 104, 91-101.	10.0	19
57	Neural network versus classical time series forecasting models. AIP Conference Proceedings, 2017, , .	0.4	3
58	A sparse QSRR model for predicting retention indices of essential oils based on robust screening approach. SAR and QSAR in Environmental Research, 2017, 28, 691-703.	2.2	6
59	Standardized residual as response function for order identification of multi input intervention analysis. AIP Conference Proceedings, 2017, , .	0.4	0
60	An adaptive EWMA scheme‐based CUSUM accumulation error for efficient monitoring of process location. Quality and Reliability Engineering International, 2017, 33, 2463-2482.	2.3	25
61	A novel molecular descriptor selection method in <scp>QSAR</scp> classification model based on weighted penalized logistic regression. Journal of Chemometrics, 2017, 31, e2915.	1.3	21
62	Directional change error evaluation in time series forecasting. AIP Conference Proceedings, 2017, , .	0.4	5
63	Thorium distribution in the soils of Peninsular Malaysia and its implications for Th resource estimation. Ore Geology Reviews, 2017, 80, 522-535.	2.7	11
64	Optimal design of exponentially weighted moving average‐ chart for the mean with estimated process parameters. Communications in Statistics - Theory and Methods, 2017, 46, 11077-11090.	1.0	2
65	EXPERIMENTAL STUDY AND HIGH DIMENSIONAL QSAR MODELLING OF PHENYLPROPANOIDS OF ALPINIA GALANGA AS CORROSION INHIBITORS ON MILD STEEL. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.4	1
66	New EWMA S2 Control Charts for Monitoring Process Dispersion. Scientia Iranica, 2017, 24, 378-389.	0.4	15
67	FRACTIONAL RESIDUAL PLOT FOR MODEL VALIDATION. Jurnal Teknologi (Sciences and Engineering), 2016, 79, .	0.4	0
68	Quantitative structure‐activity relationship model for prediction study of corrosion inhibition efficiency using two‐stage sparse multiple linear regression. Journal of Chemometrics, 2016, 30, 361-368.	1.3	39
69	Spatial distribution of natural Î³ radiation exposure and its relationship to soil types. Natural Hazards, 2016, 84, 1859-1872.	3.4	1
70	Combined Application of Shewhart and Cumulative Sum <i>R</i> Chart for Monitoring Process Dispersion. Quality and Reliability Engineering International, 2016, 32, 51-67.	2.3	11
71	High-dimensional QSAR modelling using penalized linear regression model with L1/2-norm. SAR and QSAR in Environmental Research, 2016, 27, 703-719.	2.2	22
72	A New Combined Shewhart‐Cumulative Sum <i>S</i> Chart for Monitoring Process Standard Deviation. Quality and Reliability Engineering International, 2016, 32, 1149-1165.	2.3	10

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73	High‐dimensional quantitative structure–activity relationship modeling of influenza neuraminidase a/PR/8/34 (H1N1) inhibitors based on a two‐stage adaptive penalized rank regression. Journal of Chemometrics, 2016, 30, 50-57.	1.3	25
74	A hybrid model based on differential fuzzy logic relationships and imperialist competitive algorithm for stock market forecasting. Applied Soft Computing Journal, 2016, 40, 132-149.	7.2	51
75	Investigation of geological and soil influence on natural gamma radiation exposure and assessment of radiation hazards in Western Region, Peninsular Malaysia. Environmental Earth Sciences, 2016, 75, 1.	2.7	9
76	Mixed CUSUM-EWMA chart for monitoring process dispersion. International Journal of Advanced Manufacturing Technology, 2016, 86, 3025-3039.	3.0	82
77	Decrease in serum potassium levels post saline suppression test in primary aldosteronism: an under-recognised phenomenon?. Journal of Human Hypertension, 2016, 30, 664-665.	2.2	3
78	Two levels ARIMAX and regression models for forecasting time series data with calendar variation effects. AIP Conference Proceedings, 2015, , .	0.4	16
79	High‐dimensional QSAR prediction of anticancer potency of imidazo[4,5‐b]pyridine derivatives using adjusted adaptive LASSO. Journal of Chemometrics, 2015, 29, 547-556.	1.3	50
80	Synthetic Double Sampling $X̄$ Chart with Estimated Process Parameters. Quality Technology and Quantitative Management, 2015, 12, 579-604.	1.9	23
81	Increasing the Sensitivity of Cumulative Sum Charts for Location. Quality and Reliability Engineering International, 2015, 31, 1035-1051.	2.3	15
82	Enhanced Cumulative Sum Charts for Monitoring Process Dispersion. PLoS ONE, 2015, 10, e0124520.	2.5	21
83	Daily Wind Speed Forecasting Through Hybrid AR-ANN and AR-KF Models. Jurnal Teknologi (Sciences) Tj ETQq1 1 0.784314 rgBT /Overlo	0.4	2
84	Imputation of Missing Values in Daily Wind Speed Data Using Hybrid AR-ANN Method. Modern Applied Science, 2015, 9, 1.	0.6	18
85	Review of Discrete-continuous Models in Energy and Transportation. Procedia CIRP, 2015, 26, 281-286.	1.9	1
86	Regularized logistic regression with adjusted adaptive elastic net for gene selection in high dimensional cancer classification. Computers in Biology and Medicine, 2015, 67, 136-145.	7.0	85
87	Penalized logistic regression with the adaptive LASSO for gene selection in high-dimensional cancer classification. Expert Systems With Applications, 2015, 42, 9326-9332.	7.6	114
88	Daily wind speed forecasting through hybrid KF-ANN model based on ARIMA. Renewable Energy, 2015, 76, 637-647.	8.9	238
89	Artificial neural networks and fuzzy time series forecasting: an application to air quality. Quality and Quantity, 2015, 49, 2633-2647.	3.7	55
90	High Dimensional Logistic Regression Model using Adjusted Elastic Net Penalty. Pakistan Journal of Statistics and Operation Research, 2015, 11, 667.	1.1	12

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91	Applying Penalized Binary Logistic Regression with Correlation Based Elastic Net for Variables Selection. Journal of Modern Applied Statistical Methods, 2015, 14, 168-179.	0.2	22
92	Multilayer Stock Forecasting Model Using Fuzzy Time Series. Scientific World Journal, The, 2014, 2014, 1-10.	2.1	9
93	Adjusted Adaptive LASSO in High-dimensional Poisson Regression Model. Modern Applied Science, 2014, 9, .	0.6	11
94	Primary Stability Recognition of the Newly Designed Cementless Femoral Stem Using Digital Signal Processing. BioMed Research International, 2014, 2014, 1-9.	1.9	4
95	Fabrication of Lowâ€Cost, Cementless Femoral Stem 316<scp>L</scp> Stainless Steel Using Investment Casting Technique. Artificial Organs, 2014, 38, 603-608.	1.9	7
96	Morphological Study of the Newly Designed Cementless Femoral Stem. BioMed Research International, 2014, 2014, 1-11.	1.9	18
97	Improving the Performance of Exponentially Weighted Moving Average Control Charts. Quality and Reliability Engineering International, 2014, 30, 571-590.	2.3	44
98	Design process of cementless femoral stem using a nonlinear three dimensional finite element analysis. BMC Musculoskeletal Disorders, 2014, 15, 30.	1.9	20
99	Electricity Load Forecasting using Hybrid of Multiplicative Double Seasonal Exponential Smoothing Model with Artificial Neural Network. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.4	3
100	Grey-based Taguchi Method in Multi-objective Optimisation of the Routing Process in Mobile Ad-hoc Networks. Journal of Applied Sciences, 2014, 14, 396-400.	0.3	3
101	Improving TAIEX forecasting using fuzzy time series with Boxâ€"Cox power transformation. Journal of Applied Statistics, 2013, 40, 2407-2422.	1.3	17
102	Improving the Performance of Combined Shewhartâ€"Cumulative Sum Control Charts. Quality and Reliability Engineering International, 2013, 29, 1193-1206.	2.3	33
103	Three-Dimensional Morphometric Study of the Trapezium Shape of the Trochlea Tali. Journal of Foot and Ankle Surgery, 2013, 52, 426-431.	1.0	15
104	The three statistical control charts using ranked set sampling. , 2013, , .		4
105	Enhancing the Performance of Combined Shewhartâ€EWMA Charts. Quality and Reliability Engineering International, 2013, 29, 1093-1106.	2.3	45
106	The bivariate generalized variance |S| control chart with runs rules. , 2013, , .		1
107	Introducing polynomial fuzzy time series. Journal of Intelligent and Fuzzy Systems, 2013, 25, 117-128.	1.4	13
108	Forecasting of Air Pollution Index with Artificial Neural Network. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.4	12

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109	FUZZY TIME SERIES AND SARIMA MODEL FOR FORECASTING TOURIST ARRIVALS TO BALI. Jurnal Teknologi (Sciences and Engineering), 2013, 57, .	0.4	14
110	O-serogroups, virulence genes of pathogenic Escherichia coli and Pulsed-field gel electrophoresis (PFGE) patterns of O149 isolates from diarrhoeic piglets in Korea. Veterinarni Medicina, 2013, 58, 468-476.	0.6	13
111	Three Dimensional Morphometry of the Femur to Design the Total Hip Arthroplasty for Malay Population. Advanced Science Letters, 2013, 19, 2982-2987.	0.2	6
112	Three Dimensional of Proximal Femoral Medullary Canal in Malays. Advanced Science Letters, 2013, 19, 3582-3587.	0.2	5
113	Two-level seasonal model based on hybrid ARIMA-ANFIS for forecasting short-term electricity load in Indonesia. , 2012, , .		14
114	Seasonal ARIMA for Forecasting Air Pollution Index: A Case Study. American Journal of Applied Sciences, 2012, 9, 570-578.	0.2	35
115	Ad-hoc network design with multiple metrics using Taguchi's loss function. , 2011, , .		3
116	A Hybrid Approach based on Winter's Model and Weighted Fuzzy Time Series for Forecasting Trend and Seasonal Data. Journal of Mathematics and Statistics, 2011, 7, 177-183.	0.2	18
117	Morphometric Study of the Acetabular in Malay Population Normal Hips and its Clinical Applications. Journal of Medical Sciences (Faisalabad, Pakistan), 2011, 11, 213-219.	0.0	6
118	Morphology Study of the Proximal Femur in Malay Population. International Journal of Morphology, 2011, 29, 1321-1325.	0.2	19
119	A Weighted Fuzzy Integrated Time Series for Forecasting Tourist Arrivals. Communications in Computer and Information Science, 2011, , 206-217.	0.5	9
120	The Use of Taguchi Method to Determine Factors Affecting the Performance of Destination Sequence Distance Vector Routing Protocol in Mobile Ad Hoc Networks. Journal of Mathematics and Statistics, 2008, 4, 194-198.	0.2	13
121	On the probability of route existence in mobile wireless networks. International Journal of Simulation and Process Modelling, 2006, 2, 222.	0.2	1
122	FRECAST: message transmission model in dense graphs for ad hoc networks. International Journal of Simulation and Process Modelling, 2006, 2, 4.	0.2	1
123	Statistical prediction of terrestrial gamma radiation dose rate based on geological features and soil types in Kota Tinggi district, Malaysia. Applied Radiation and Isotopes, 2003, 59, 393-405.	1.5	33
124	Geological influence on terrestrial gamma radiation dose rate in the Malaysian State of Johore. Applied Radiation and Isotopes, 2001, 54, 327-333.	1.5	39
125	Design Process of Low Cost Uncemented Femoral Stem 316L Stainless Steel Using Investment Casting Technique. Advanced Materials Research, 0, 1133, 70-74.	0.3	0
126	Comparison between VAR, GSTAR, FFNN-VAR and FFNN-GSTAR Models for Forecasting Oil Production. Matematika, 0, , 103-111.	0.0	13

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127	An Improved Combined Shewhart-EWMA Chart based on Double Median Ranked Set Sampling. Journal of Computer Science & Computational Mathematics, 0, , 23-28.	0.2	3
128	An Empirical Study of Error Evaluation in Trend and Seasonal Time Series Forecasting Based on SSA. Pakistan Journal of Statistics and Operation Research, 0, , 945-960.	1.1	0
129	Non-transformed Principal Component Technique on Weekly Construction Stock Market Price. Matematika, 0, , 139-147.	0.0	0
130	Comparative analysis between FAR and ARLbased control charts with runs rules. , 0, , .	1.0	1
131	Forecasting Tourist Arrivals to Sangiran Using Fuzzy with Calendar Variations. Advances in Hospitality and Tourism Research, 0, , .	1.6	0
132	Outliers’ detection with a sensitive exponentially weighted moving average control chart. Quality and Reliability Engineering International, 0, , .	2.3	0