Muddu Madakyaru

List of Publications by Year
in descending order

30 papers	460 citations	840776 11 h-index	839539 18 g-index
30 all docs	30 docs citations	30 times ranked	297 citing authors

#	Article	IF	Citations
1	Improved Process Monitoring Scheme Using Multi-Scale Independent Component Analysis. Arabian Journal for Science and Engineering, 2022, 47, 5985-6000.	3.0	11
2	Kantorovich Distance Based Fault Detection Scheme for Non-Linear Processes. IEEE Access, 2022, 10, 1051-1067.	4.2	7
3	Kantorovich Distance based Fault Detection Scheme: An Application to Wastewater Treatment Plant. IFAC-PapersOnLine, 2022, 55, 345-350.	0.9	1
4	Linear latent variable regression (LVR)-based process monitoring. , 2021, , 19-70.		4
5	Nonlinear latent variable regression methods. , 2021, , 119-154.		0
6	Multiscale latent variable regression-based process monitoring methods. , 2021, , 155-191.		1
7	Performance Evaluation of Independent Component Analysis-Based Fault Detection Using Measurements Corrupted with Noise. Journal of Control, Automation and Electrical Systems, 2021, 32, 642-655.	2.0	5
8	Monitoring multivariate process using improved Independent component analysis-generalized likelihood ratio strategy. IFAC-PapersOnLine, 2020, 53, 392-397.	0.9	6
9	Improved anomaly detection based on integrated multi-scale principal component analysis using wavelets: An application to high dimensional processes. IFAC-PapersOnLine, 2020, 53, 398-403.	0.9	3
10	Improved Process Monitoring Strategy Using Kantorovich Distance-Independent Component Analysis: An Application to Tennessee Eastman Process. IEEE Access, 2020, 8, 205863-205877.	4.2	13
11	Anomaly detection using multi-scale dynamic principal component analysis for Tenneesse Eastman Process. , 2019, , .		6
12	Improved fault detection using Dynamic Independent Component Analysis (DICA): An application to multi-variate system. , 2019, , .		1
13	Monitoring Distillation Column Systems Using Improved Nonlinear Partial Least Squares-Based Strategies. IEEE Sensors Journal, 2019, 19, 11697-11705.	4.7	16
14	An Improved Multivariate Chart Using Partial Least Squares With Continuous Ranked Probability Score. IEEE Sensors Journal, 2018, 18, 6715-6726.	4.7	42
15	Improved data-based fault detection strategy and application to distillation columns. Chemical Engineering Research and Design, 2017, 107, 22-34.	5.6	48
16	Improved nonlinear fault detection strategy based on the Hellinger distance metric: Plug flow reactor monitoring. Energy and Buildings, 2017, 143, 149-161.	6.7	24
17	Enhanced dynamic data-driven fault detection approach: Application to a two-tank heater system. , 2017, , .		3
18	An Improved Waveletâ€Based Multivariable Fault Detection Scheme. , 2017, , .		3

#	Article	IF	Citations
19	Nonlinear partial least squares with Hellinger distance for nonlinear process monitoring. , 2016, , .		1
20	Improved anomaly detection using multi-scale PLS and generalized likelihood ratio test. , 2016, , .		8
21	Kullback-Leibler distance-based enhanced detection of incipient anomalies. Journal of Loss Prevention in the Process Industries, 2016, 44, 73-87.	3.3	37
22	Improved detection of incipient anomalies via multivariate memory monitoring charts: Application to an air flow heating system. Applied Thermal Engineering, 2016, 109, 65-74.	6.0	19
23	PLS-based EWMA fault detection strategy for process monitoring. Journal of Loss Prevention in the Process Industries, 2015, 36, 108-119.	3.3	72
24	Multiscale Filtering and Applications to Chemical and Biological Systems. Advances in Computational Intelligence and Robotics Book Series, 2014, , 749-786.	0.4	0
25	Statistical fault detection using PCA-based GLR hypothesis testing. Journal of Loss Prevention in the Process Industries, 2013, 26, 129-139.	3.3	90
26	Enhanced modeling of distillation columns using integrated multiscale latent variable regression. , 2013, , .		3
27	Integrated Multiscale Latent Variable Regression and Application to Distillation Columns. Modelling and Simulation in Engineering, 2013, 2013, 1-17.	0.7	7
28	Nonlinear latent variable regression. , 2013, , .		1
29	Adaptive Predictive Control using GOBF-ARX Models: An Experimental Case Study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 99-104.	0.4	6
30	Development of ARX Models for Predictive Control Using Fractional Order and Orthonormal Basis Filter Parametrization. Industrial & Engineering Chemistry Research, 2009, 48, 8966-8979.	3.7	22