Yuri A W Shardt

List of Publications by Year
in descending order

65	1,321	361413 20	361022 35
papers	citations	h-index	g-index

66	66	66	1019
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quality-Driven Regularization for Deep Learning Networks and Its Application to Industrial Soft Sensors. IEEE Transactions on Neural Networks and Learning Systems, 2024, PP, 1-11.	11.3	42
2	A Just-In-Time-Learning-Aided Canonical Correlation Analysis Method for Multimode Process Monitoring and Fault Detection. IEEE Transactions on Industrial Electronics, 2021, 68, 5259-5270.	7.9	78
3	Deep Learning With Spatiotemporal Attention-Based LSTM for Industrial Soft Sensor Model Development. IEEE Transactions on Industrial Electronics, 2021, 68, 4404-4414.	7.9	234
4	Modulation-Function-Based Finite-Horizon Sensor Fault Detection for Salient-Pole PMSM using Parity-Space Residuals. IFAC-PapersOnLine, 2021, 54, 61-66.	0.9	2
5	Sparse modeling and monitoring for industrial processes using sparse, distributed principal component analysis. Journal of the Taiwan Institute of Chemical Engineers, 2021, 122, 14-22.	5.3	11
6	Comparison of Semirigorous and Empirical Models Derived Using Data Quality Assessment Methods. Minerals (Basel, Switzerland), 2021, 11, 954.	2.0	3
7	Multi-Output Soft Sensor with a Multivariate Filter That Predicts Errors Applied to an Industrial Reactive Distillation Process. Mathematics, 2021, 9, 1947.	2.2	4
8	Dynamic system modelling and process monitoring based on long-term dependency slow feature analysis. Journal of Process Control, 2021, 105, 27-47.	3.3	23
9	A KPI-Based Soft Sensor Development Approach Incorporating Infrequent, Variable Time Delayed Measurements. IEEE Transactions on Control Systems Technology, 2020, 28, 2523-2531.	5.2	23
10	Soft sensor design for variable time delay and variable sampling time. Journal of Process Control, 2020, 92, 310-318.	3.3	12
11	Soft sensor model for dynamic processes based on multichannel convolutional neural network. Chemometrics and Intelligent Laboratory Systems, 2020, 203, 104050.	3.5	59
12	Deep learning for fault-relevant feature extraction and fault classification with stacked supervised auto-encoder. Journal of Process Control, 2020, 92, 79-89.	3.3	84
13	Modeling for the performance of navigation, control and data post-processing of underwater gliders. Applied Ocean Research, 2020, 101, 102191.	4.1	13
14	Sensor Fault Detection for Salient PMSM based on Parity-Space Residual Generation and Robust Exact Differentiation. IFAC-PapersOnLine, 2020, 53, 86-91.	0.9	7
15	Data Quality Assessment for System Identification in the Age of Big Data and Industry 4.0. IFAC-PapersOnLine, 2020, 53, 104-113.	0.9	8
16	Soft Sensor Design for Restricted Variable Sampling Time. IFAC-PapersOnLine, 2020, 53, 80-85.	0.9	0
17	Sensitivity Analysis of Bias in Satellite Sea Surface Temperature Measurements. IFAC-PapersOnLine, 2020, 53, 764-771.	0.9	1
18	Fault Classification in Dynamic Processes Using Multiclass Relevance Vector Machine and Slow Feature Analysis. IEEE Access, 2020, 8, 9115-9123.	4.2	7

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19	Signal Generation for Switched Reluctance Motors using Parallel Genetic Algorithms. IFAC-PapersOnLine, 2020, 53, 8193-8198.	0.9	0
20	Optimization of Motion Control for a Variably Excited Linear Hybrid Stepper Motor. , 2019, , .		0
21	Using normal probability plots to determine parameters for higherâ€level factorial experiments with orthogonal and orthonormal bases. Canadian Journal of Chemical Engineering, 2019, 97, 152-164.	1.7	2
22	Cost-sensitive large margin distribution machine for fault detection of wind turbines. Cluster Computing, 2019, 22, 7525-7537.	5.0	15
23	An incipient fault detection approach via detrending and denoising. Control Engineering Practice, 2018, 74, 1-12.	5.5	35
24	Simultaneous Robust, Decoupled Output Feedback Control for Multivariate Industrial Systems. IEEE Access, 2018, 6, 6777-6782.	4.2	4
25	Modelling the strip thickness in hot steel rolling mills using leastâ€squares support vector machines. Canadian Journal of Chemical Engineering, 2018, 96, 171-178.	1.7	27
26	Development and Industrial Application of a Soft Sensor using Markov Random Fields. , 2018, , .		1
27	Path planning for an identification mission of an Autonomous Underwater Vehicle in a lemniscate form. IFAC-PapersOnLine, 2018, 51, 323-328.	0.9	6
28	A New Method for Fault Tolerant Control through Q-Learning. IFAC-PapersOnLine, 2018, 51, 38-45.	0.9	7
29	Automated System Identification in Mineral Processing Industries: A Case Study using the Zinc Flotation Cell. IFAC-PapersOnLine, 2018, 51, 132-137.	0.9	8
30	Robust decoupling mixed sensitivity controller design of looper control system for hot strip mill process. Advances in Mechanical Engineering, 2018, 10, 168781401881028.	1.6	2
31	An ADRC-Based Control Strategy for FRT Improvement of Wind Power Generation with a Doubly-Fed Induction Generator. Energies, 2018, 11, 1150.	3.1	14
32	A KPI-Based Probabilistic Soft Sensor Development Approach that Maximizes the Coefficient of Determination. Sensors, 2018, 18, 3058.	3.8	11
33	A Comparison of Different Statistics for Detecting Multiplicative Faults in Multivariate Statistics-Based Fault Detection Approaches. IEEE Access, 2018, 6, 43808-43823.	4.2	5
34	A KPI-based process monitoring and fault detection framework for large-scale processes. ISA Transactions, 2017, 68, 276-286.	5.7	41
35	Comparison of Two Basic Statistics for Fault Detection and Process Monitoring. IFAC-PapersOnLine, 2017, 50, 14776-14781.	0.9	14
36	Parameter-based conditions for closed-loop system identifiability of ARX models with routine operating data. Journal of the Franklin Institute, 2017, 354, 722-751.	3.4	4

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37	Assessment of T2- and Q-statistics for detecting additive and multiplicative faults in multivariate statistical process monitoring. Journal of the Franklin Institute, 2017, 354, 668-688.	3.4	20
38	Using the expected detection delay to assess the performance of different multivariate statistical process monitoring methods for multiplicative and drift faults. ISA Transactions, 2017, 67, 56-66.	5.7	15
39	Soft sensor modeling based on PCA and LS-SVM for strip thickness in cold steel rolling mills. , 2017, , .		6
40	Data-Driven Design of Feedback-Feedforward Control Systems for Dynamic Processes. IFAC-PapersOnLine, 2017, 50, 13916-13921.	0.9	1
41	Parameter Identification and Control Scheme for Monitoring Automatic Thickness Control System with Measurement Delay. Journal of Control Science and Engineering, 2017, 2017, 1-11.	1.0	2
42	Self-Adaptive Artificial Bee Colony for Function Optimization. Journal of Control Science and Engineering, 2017, 2017, 1-13.	1.0	2
43	A brief survey of different statistics for detecting multiplicative faults in multivariate statistical process monitoring. , 2016, , .		4
44	Development of Soft Sensors for the Case Where the Time Delay is Random. IFAC-PapersOnLine, 2016, 49, 1193-1198.	0.9	2
45	Estimating the unknown time delay in chemical processes. Engineering Applications of Artificial Intelligence, 2016, 55, 219-230.	8.1	24
46	Improved canonical correlation analysis-based fault detection methods for industrial processes. Journal of Process Control, 2016, 41, 26-34.	3.3	106
47	Quantisation and data quality: Implications for system identification. Journal of Process Control, 2016, 40, 13-23.	3.3	4
48	An Adaptive, Advanced Control Strategy for KPI-Based Optimization of Industrial Processes. IEEE Transactions on Industrial Electronics, 2016, 63, 3252-3260.	7.9	22
49	Data Quantisation and Closed-Loop System Identification. IFAC-PapersOnLine, 2015, 48, 128-133.	0.9	1
50	Unit-level modelling for KPI of batch hot strip mill process using dynamic partial least squares. IFAC-PapersOnLine, 2015, 48, 1005-1010.	0.9	4
51	Economic Performance Indicator Based Optimization for the Air Separation Unit Compressor Trains. IFAC-PapersOnLine, 2015, 48, 858-863.	0.9	3
52	Minimal required excitation for closed-loop identification: Some implications for data-driven, system identification. Journal of Process Control, 2015, 27, 22-35.	3.3	20
53	A New Soft-Sensor-Based Process Monitoring Scheme Incorporating Infrequent KPI Measurements. IEEE Transactions on Industrial Electronics, 2015, 62, 3843-3851.	7.9	69
54	Statistics for Chemical and Process Engineers. , 2015, , .		14

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55	Modelling Dynamic Processes Using System Identification Methods. , 2015, , 283-336.		0
56	Segmentation Methods for Model Identification from Historical Process Data. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2836-2841.	0.4	7
57	Data quality assessment of routine operating data for process identification. Computers and Chemical Engineering, 2013, 55, 19-27.	3.8	33
58	Statistical properties of signal entropy for use in detecting changes in time series data. Journal of Chemometrics, 2013, 27, 394-405.	1.3	10
59	Tuning a Soft Sensorâ€™s Bias Update Term. 1. The Open-Loop Case. Industrial & Engineering Chemistry Research, 2012, 51, 4958-4967.	3.7	12
60	Tuning a Soft Sensorâ€™s Bias Update Term. 2. The Closed-Loop Case. Industrial & Engineering Chemistry Research, 2012, 51, 4968-4981.	3.7	8
61	Determining the state of a process control system: Current trends and future challenges. Canadian Journal of Chemical Engineering, 2012, 90, 217-245.	1.7	66
62	Closed-Loop Identification using Routine Operating Data: the Effect of Time Delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1646-1651.	0.4	1
63	Closed-loop identification condition for ARMAX models using routine operating data. Automatica, 2011, 47, 1534-1537.	5.0	27
64	Closed-loop identification with routine operating data: Effect of time delay and sampling time. Journal of Process Control, 2011, 21, 997-1010.	3.3	29
65	Conditions for Identifiability Using Routine Operating Data for a First-Order ARX Process Regulated by a Lead-Lag Controller. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 373-378.	0.4	2