

Yuri A W Shardt

List of Publications by Year in descending order

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65
papers

1,321
citations

361413

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h-index

361022

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all docs

66
docs citations

66
times ranked

1019
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Improved canonical correlation analysis-based fault detection methods for industrial processes. Journal of Process Control, 2016, 41, 26-34.	3.3	106
3	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
4	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
5	A New Soft-Sensor-Based Process Monitoring Scheme Incorporating Infrequent KPI Measurements. IEEE Transactions on Industrial Electronics, 2015, 62, 3843-3851.	7.9	69
6	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
7	Soft sensor model for dynamic processes based on multichannel convolutional neural network. Chemometrics and Intelligent Laboratory Systems, 2020, 203, 104050.	3.5	59
8	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
9	A KPI-based process monitoring and fault detection framework for large-scale processes. ISA Transactions, 2017, 68, 276-286.	5.7	41
10	An incipient fault detection approach via detrending and denoising. Control Engineering Practice, 2018, 74, 1-12.	5.5	35
11	Data quality assessment of routine operating data for process identification. Computers and Chemical Engineering, 2013, 55, 19-27.	3.8	33
12	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
13	Closed-loop identification condition for ARMAX models using routine operating data. Automatica, 2011, 47, 1534-1537.	5.0	27
14	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
15	Estimating the unknown time delay in chemical processes. Engineering Applications of Artificial Intelligence, 2016, 55, 219-230.	8.1	24
16	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
17	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
18	An Adaptive, Advanced Control Strategy for KPI-Based Optimization of Industrial Processes. IEEE Transactions on Industrial Electronics, 2016, 63, 3252-3260.	7.9	22

#	ARTICLE	IF	CITATIONS
19	Minimal required excitation for closed-loop identification: Some implications for data-driven, system identification. <i>Journal of Process Control</i> , 2015, 27, 22-35.	3.3	20
20	Assessment of T2- and Q-statistics for detecting additive and multiplicative faults in multivariate statistical process monitoring. <i>Journal of the Franklin Institute</i> , 2017, 354, 668-688.	3.4	20
21	Using the expected detection delay to assess the performance of different multivariate statistical process monitoring methods for multiplicative and drift faults. <i>ISA Transactions</i> , 2017, 67, 56-66.	5.7	15
22	Cost-sensitive large margin distribution machine for fault detection of wind turbines. <i>Cluster Computing</i> , 2019, 22, 7525-7537.	5.0	15
23	Statistics for Chemical and Process Engineers. , 2015, , .		14
24	Comparison of Two Basic Statistics for Fault Detection and Process Monitoring. <i>IFAC-PapersOnLine</i> , 2017, 50, 14776-14781.	0.9	14
25	An ADRC-Based Control Strategy for FRT Improvement of Wind Power Generation with a Doubly-Fed Induction Generator. <i>Energies</i> , 2018, 11, 1150.	3.1	14
26	Modeling for the performance of navigation, control and data post-processing of underwater gliders. <i>Applied Ocean Research</i> , 2020, 101, 102191.	4.1	13
27	Tuning a Soft Sensor's Bias Update Term. 1. The Open-Loop Case. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4958-4967.	3.7	12
28	Soft sensor design for variable time delay and variable sampling time. <i>Journal of Process Control</i> , 2020, 92, 310-318.	3.3	12
29	A KPI-Based Probabilistic Soft Sensor Development Approach that Maximizes the Coefficient of Determination. <i>Sensors</i> , 2018, 18, 3058.	3.8	11
30	Sparse modeling and monitoring for industrial processes using sparse, distributed principal component analysis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 122, 14-22.	5.3	11
31	Statistical properties of signal entropy for use in detecting changes in time series data. <i>Journal of Chemometrics</i> , 2013, 27, 394-405.	1.3	10
32	Tuning a Soft Sensor's Bias Update Term. 2. The Closed-Loop Case. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4968-4981.	3.7	8
33	Automated System Identification in Mineral Processing Industries: A Case Study using the Zinc Flotation Cell. <i>IFAC-PapersOnLine</i> , 2018, 51, 132-137.	0.9	8
34	Data Quality Assessment for System Identification in the Age of Big Data and Industry 4.0. <i>IFAC-PapersOnLine</i> , 2020, 53, 104-113.	0.9	8
35	Segmentation Methods for Model Identification from Historical Process Data. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 2836-2841.	0.4	7
36	A New Method for Fault Tolerant Control through Q-Learning. <i>IFAC-PapersOnLine</i> , 2018, 51, 38-45.	0.9	7

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37	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
38	Fault Classification in Dynamic Processes Using Multiclass Relevance Vector Machine and Slow Feature Analysis. IEEE Access, 2020, 8, 9115-9123.	4.2	7
39	Soft sensor modeling based on PCA and LS-SVM for strip thickness in cold steel rolling mills. , 2017, , .		6
40	Path planning for an identification mission of an Autonomous Underwater Vehicle in a lemniscate form. IFAC-PapersOnLine, 2018, 51, 323-328.	0.9	6
41	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
42	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
43	A brief survey of different statistics for detecting multiplicative faults in multivariate statistical process monitoring. , 2016, , .		4
44	Quantisation and data quality: Implications for system identification. Journal of Process Control, 2016, 40, 13-23.	3.3	4
45	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
46	Simultaneous Robust, Decoupled Output Feedback Control for Multivariate Industrial Systems. IEEE Access, 2018, 6, 6777-6782.	4.2	4
47	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
48	Economic Performance Indicator Based Optimization for the Air Separation Unit Compressor Trains. IFAC-PapersOnLine, 2015, 48, 858-863.	0.9	3
49	Comparison of Semirigorous and Empirical Models Derived Using Data Quality Assessment Methods. Minerals (Basel, Switzerland), 2021, 11, 954.	2.0	3
50	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
51	Development of Soft Sensors for the Case Where the Time Delay is Random. IFAC-PapersOnLine, 2016, 49, 1193-1198.	0.9	2
52	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
53	Self-Adaptive Artificial Bee Colony for Function Optimization. Journal of Control Science and Engineering, 2017, 2017, 1-13.	1.0	2
54	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

#	ARTICLE	IF	CITATIONS
55	Using normal probability plots to determine parameters for higher-level factorial experiments with orthogonal and orthonormal bases. Canadian Journal of Chemical Engineering, 2019, 97, 152-164.	1.7	2
56	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
57	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
58	Data Quantisation and Closed-Loop System Identification. IFAC-PapersOnLine, 2015, 48, 128-133.	0.9	1
59	Data-Driven Design of Feedback-Feedforward Control Systems for Dynamic Processes. IFAC-PapersOnLine, 2017, 50, 13916-13921.	0.9	1
60	Development and Industrial Application of a Soft Sensor using Markov Random Fields. , 2018, , .		1
61	Sensitivity Analysis of Bias in Satellite Sea Surface Temperature Measurements. IFAC-PapersOnLine, 2020, 53, 764-771.	0.9	1
62	Optimization of Motion Control for a Variably Excited Linear Hybrid Stepper Motor. , 2019, , .		0
63	Modelling Dynamic Processes Using System Identification Methods. , 2015, , 283-336.		0
64	Soft Sensor Design for Restricted Variable Sampling Time. IFAC-PapersOnLine, 2020, 53, 80-85.	0.9	0
65	Signal Generation for Switched Reluctance Motors using Parallel Genetic Algorithms. IFAC-PapersOnLine, 2020, 53, 8193-8198.	0.9	0