

Biao Huang

List of Publications by Year in descending order

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609
papers

18,412
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17440

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631
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631
docs citations

631
times ranked

7564
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Bayesian Slow Feature Extraction With Application to Industrial Inferential Modeling. IEEE Transactions on Industrial Informatics, 2023, 19, 40-51.	11.3	5
2	Double Dynamic Linearization-Based Higher Order Indirect Adaptive Iterative Learning Control. IEEE Transactions on Cybernetics, 2023, 53, 3506-3517.	9.5	4
3	Variational Bayesian Inference for Robust Identification of PWARX Systems With Time-Varying Time-Delays. IEEE Transactions on Cybernetics, 2023, 53, 3613-3623.	9.5	4
4	No-Delay Multimodal Process Monitoring Using Kullback-Leibler Divergence-Based Statistics in Probabilistic Mixture Models. IEEE Transactions on Automation Science and Engineering, 2023, 20, 167-178.	5.2	4
5	Tuning-Free Bayesian Estimation Algorithms for Faulty Sensor Signals in State-Space. IEEE Transactions on Industrial Electronics, 2023, 70, 921-929.	7.9	33
6	Data-Driven Adaptive Iterative Learning Bipartite Consensus for Heterogeneous Nonlinear Cooperation Antagonism Networks. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8262-8270.	11.3	7
7	Enhanced P-Type Control: Indirect Adaptive Learning From Set-Point Updates. IEEE Transactions on Automatic Control, 2023, 68, 1600-1613.	5.7	47
8	Fault Detection for Nonlinear Dynamic Systems With Consideration of Modeling Errors: A Data-Driven Approach. IEEE Transactions on Cybernetics, 2023, 53, 4259-4269.	9.5	29
9	Incremental Variational Bayesian Gaussian Mixture Model With Decremental Optimization for Distribution Accommodation and Fine-Scale Adaptive Process Monitoring. IEEE Transactions on Cybernetics, 2023, 53, 5094-5107.	9.5	5
10	Data-Driven Fault Diagnosis for Traction Systems in High-Speed Trains: A Survey, Challenges, and Perspectives. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1700-1716.	8.0	244
11	Quantitative Data-Driven Adaptive Iterative Learning Control: From Trajectory Tracking to Point-to-Point Tracking. IEEE Transactions on Cybernetics, 2022, 52, 4859-4873.	9.5	26
12	Spatial Linear Dynamic Relationship of Strongly Connected Multiagent Systems and Adaptive Learning Control for Different Formations. IEEE Transactions on Cybernetics, 2022, 52, 531-543.	9.5	15
13	Multisource-Refined Transfer Network for Industrial Fault Diagnosis Under Domain and Category Inconsistencies. IEEE Transactions on Cybernetics, 2022, 52, 9784-9796.	9.5	40
14	A Deep Probabilistic Transfer Learning Framework for Soft Sensor Modeling With Missing Data. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7598-7609.	11.3	47
15	MoniNet With Concurrent Analytics of Temporal and Spatial Information for Fault Detection in Industrial Processes. IEEE Transactions on Cybernetics, 2022, 52, 8340-8351.	9.5	36
16	Data-Driven Designs of Fault Detection Systems via Neural Network-Aided Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5694-5705.	11.3	45
17	Parallel Interaction Spatiotemporal Constrained Variational Autoencoder for Soft Sensor Modeling. IEEE Transactions on Industrial Informatics, 2022, 18, 5190-5198.	11.3	10
18	Data-Driven Adaptive Consensus Learning From Network Topologies. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3487-3497.	11.3	10

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19	Data-Driven Communication Efficient Distributed Monitoring for Multiunit Industrial Plant-Wide Processes. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1913-1923.	5.2	9
20	Discrete-Time-Distributed Adaptive ILC With Nonrepetitive Uncertainties and Applications to Building HVAC Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5068-5080.	9.3	10
21	Variational Progressive-Transfer Network for Soft Sensing of Multirate Industrial Processes. IEEE Transactions on Cybernetics, 2022, 52, 12882-12892.	9.5	26
22	A Single-Side Neural Network-Aided Canonical Correlation Analysis With Applications to Fault Diagnosis. IEEE Transactions on Cybernetics, 2022, 52, 9454-9466.	9.5	48
23	Event-Triggered ILC for Optimal Consensus at Specified Data Points of Heterogeneous Networked Agents With Switching Topologies. IEEE Transactions on Cybernetics, 2022, 52, 8951-8961.	9.5	13
24	Reinforcement Learning With Constrained Uncertain Reward Function Through Particle Filtering. IEEE Transactions on Industrial Electronics, 2022, 69, 7491-7499.	7.9	5
25	Quantisation compensated data-driven iterative learning control for nonlinear systems. International Journal of Systems Science, 2022, 53, 275-290.	5.5	4
26	Transfer Learning for Dynamic Feature Extraction Using Variational Bayesian Inference. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5524-5535.	5.7	11
27	Offline and Online Parameter Learning for Switching Multirate Processes With Varying Delays and Integrated Measurements. IEEE Transactions on Industrial Electronics, 2022, 69, 7213-7222.	7.9	6
28	Sparse Inverse Covariance Estimation for Causal Inference in Process Data Analytics. IEEE Transactions on Control Systems Technology, 2022, 30, 1268-1280.	5.2	5
29	Sensor Fault Estimation in a Probabilistic Framework for Industrial Processes and its Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 387-396.	11.3	13
30	Multirate Sensor Fusion in the Presence of Irregular Measurements and Time-Varying Time Delays Using Synchronized, Neural, Extended Kalman Filters. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	8
31	Sparsity constrained wavelet neural networks for robust soft sensor design with application to the industrial KIVCET unit. Computers and Chemical Engineering, 2022, 159, 107695.	3.8	2
32	Robust probabilistic principal component regression with switching mixture Gaussian noise for soft sensing. Chemometrics and Intelligent Laboratory Systems, 2022, 222, 104491.	3.5	6
33	Data-driven iterative learning control using a uniform quantizer with an encoding-decoding mechanism. International Journal of Robust and Nonlinear Control, 2022, 32, 4336-4354.	3.7	6
34	Event-Triggered Distributed Moving Horizon State Estimation of Linear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6439-6451.	9.3	13
35	Reinforcement learning approach to autonomous PID tuning. Computers and Chemical Engineering, 2022, 161, 107760.	3.8	41
36	SFNet: A slow feature extraction network for parallel linear and nonlinear dynamic process monitoring. Neurocomputing, 2022, 488, 359-380.	5.9	20

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37	Practical Linear Regression-Based Method for Detection and Quantification of Stiction in Control Valves. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 502-514.	3.7	3
38	Identification of errors-in-variables ARX model with time varying time delay. <i>Journal of Process Control</i> , 2022, 115, 134-144.	3.3	3
39	Adaptive inference for Bayesian network soft-sensor in the presence of process and sensor drift. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 2119-2134.	1.7	0
40	Community detection based process decomposition and distributed monitoring for large-scale processes. <i>AIChE Journal</i> , 2022, 68, .	3.6	4
41	Overexpression of heat shock protein 70 induces apoptosis of intestinal epithelial cells in heat-stressed pigs: A proteomics approach. <i>Journal of Thermal Biology</i> , 2022, 108, 103289.	2.5	2
42	A generalized probabilistic monitoring model with both random and sequential data. <i>Automatica</i> , 2022, 144, 110468.	5.0	20
43	Event-Triggered Nonlinear Iterative Learning Control. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 5118-5128.	11.3	33
44	State Estimation for Multirate Measurements in the Presence of Integral Term and Variable Delay. <i>IEEE Transactions on Control Systems Technology</i> , 2021, 29, 2416-2426.	5.2	5
45	Observer-Based Sampled-Data Model-Free Adaptive Control for Continuous-Time Nonlinear Nonaffine Systems With Input Rate Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 7813-7822.	9.3	20
46	A Variational Bayesian Causal Analysis Approach for Time-Varying Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2021, 29, 1191-1202.	5.2	8
47	Hidden Markov Model-Based Attack Detection for Networked Control Systems Subject to Random Packet Dropouts. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 642-653.	7.9	10
48	Stationary Subspace Analysis-Based Hierarchical Model for Batch Processes Monitoring. <i>IEEE Transactions on Control Systems Technology</i> , 2021, 29, 444-453.	5.2	42
49	Forward-Backward Smoothers With Finite Impulse Response Structure. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 765-774.	9.3	2
50	Extended State Observer-Based Data-Driven Iterative Learning Control for Permanent Magnet Linear Motor With Initial Shifts and Disturbances. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 1881-1891.	9.3	70
51	Identification of Two-Dimensional Causal Systems With Missing Output Data via Expectation-Maximization Algorithm. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 5185-5196.	11.3	15
52	Consensus-based approach for parameter and state estimation of agro-hydrological systems. <i>AIChE Journal</i> , 2021, 67, e17096.	3.6	4
53	A Holistic Probabilistic Framework for Monitoring Nonstationary Dynamic Industrial Processes. <i>IEEE Transactions on Control Systems Technology</i> , 2021, 29, 2239-2246.	5.2	16
54	Siamese Neural Network-Based Supervised Slow Feature Extraction for Soft Sensor Application. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 8953-8962.	7.9	19

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55	Online Probabilistic Estimation of Sensor Faulty Signal in Industrial Processes and Its Applications. IEEE Transactions on Industrial Electronics, 2021, 68, 8853-8862.	7.9	34
56	Convergence Analysis of Sampled-Data ILC for Locally Lipschitz Continuous Nonlinear Nonaffine Systems With Nonrepetitive Uncertainties. IEEE Transactions on Automatic Control, 2021, 66, 3347-3354.	5.7	10
57	Auxiliary Predictive Compensation-Based ILC for Variable Pass Lengths. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4048-4056.	9.3	15
58	Event-Triggered Model-Free Adaptive Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3358-3369.	9.3	39
59	Active Disturbance Rejection Control for Nonaffined Globally Lipschitz Nonlinear Discrete-Time Systems. IEEE Transactions on Automatic Control, 2021, 66, 5955-5967.	5.7	27
60	Filtering and Smoothing of Hidden Monotonic Trends and Application to Fouling Detection. IFAC-PapersOnLine, 2021, 54, 427-432.	0.9	2
61	Sensor Fusion and Computer Vision Integrated System for Primary Separation Vessel Interface Level Estimation. IFAC-PapersOnLine, 2021, 54, 170-175.	0.9	0
62	Data-Driven Fault Detection for Dynamic Systems With Performance Degradation: A Unified Transfer Learning Framework. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	34
63	Dual Neural Extended Kalman Filtering Approach for Multirate Sensor Data Fusion. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	7
64	Valve Stiction Detection and Quantification Using a K-Means Clustering Based Moving Window Approach. Industrial & Engineering Chemistry Research, 2021, 60, 2563-2577.	3.7	19
65	A just-in-time modeling approach for multimode soft sensor based on Gaussian mixture variational autoencoder. Computers and Chemical Engineering, 2021, 146, 107230.	3.8	23
66	Multimodal process monitoring based on variational Bayesian PCA and Kullback-Leibler divergence between mixture models. Chemometrics and Intelligent Laboratory Systems, 2021, 210, 104230.	3.5	16
67	Soft sensor based on eXtreme gradient boosting and bidirectional converted gates long short-term memory self-attention network. Neurocomputing, 2021, 434, 126-136.	5.9	16
68	Event-triggered learning consensus of networked heterogeneous nonlinear agents with switching topologies. Journal of the Franklin Institute, 2021, 358, 3803-3821.	3.4	7
69	Identification of Gaussian process with switching noise mode and missing data. Journal of the Franklin Institute, 2021, 358, 4546-4570.	3.4	2
70	Parameter estimation for nonlinear systems with multirate measurements and random delays. AIChE Journal, 2021, 67, e17327.	3.6	3
71	Data-driven design of fault detection and isolation method for distributed homogeneous systems. Journal of the Franklin Institute, 2021, 358, 4929-4949.	3.4	13
72	A novel reduced-order algorithm for rational models based on Arnoldi process and Krylov subspace. Automatica, 2021, 129, 109663.	5.0	57

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73	Two-stage time-varying hidden conditional random fields with variable selection for process operating mode diagnosis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 214, 104330.	3.5	1
74	Mixture robust semi-supervised probabilistic principal component regression with missing input data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 214, 104315.	3.5	14
75	Online reinforcement learning for a continuous space system with experimental validation. <i>Journal of Process Control</i> , 2021, 104, 86-100.	3.3	27
76	Data-driven multi-model minimum variance controller design based on support vectors. <i>Journal of Process Control</i> , 2021, 104, 28-39.	3.3	0
77	Actor-Critic Reinforcement Learning and Application in Developing Computer-Vision-Based Interface Tracking. <i>Engineering</i> , 2021, 7, 1248-1261.	6.7	12
78	Multi-rate Gaussian Bayesian network soft sensor development with noisy input and missing data. <i>Journal of Process Control</i> , 2021, 105, 48-61.	3.3	23
79	Complex probabilistic slow feature extraction with applications in process data analytics. <i>Computers and Chemical Engineering</i> , 2021, 154, 107456.	3.8	11
80	A Gaussian mixture model based virtual sample generation approach for small datasets in industrial processes. <i>Information Sciences</i> , 2021, 581, 262-277.	6.9	23
81	Bayesian network approach to process data reconciliation with state uncertainties and recycle streams. <i>Chemical Engineering Science</i> , 2021, 246, 116996.	3.8	2
82	Kalman Filter-Based Convolutional Neural Network for Robust Tracking of Froth-Middling Interface in a Primary Separation Vessel in Presence of Occlusions. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	4.7	8
83	Real-time Performance Monitoring of Electrical Submersible Pumps in SAGD Process. <i>IFAC-PapersOnLine</i> , 2021, 54, 139-144.	0.9	3
84	Latent variable modeling and state estimation of non-stationary processes driven by monotonic trends. <i>Journal of Process Control</i> , 2021, 108, 40-54.	3.3	2
85	Adversarial smoothing tri-regression for robust semi-supervised industrial soft sensor. <i>Journal of Process Control</i> , 2021, 108, 86-97.	3.3	15
86	Detecting the Direction of Information Flow in Instantaneous Relations Between Variables. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 542-549.	5.2	3
87	Oil sands extraction plant debottlenecking: an optimization approach. <i>Optimization Letters</i> , 2020, 14, 945-957.	1.6	0
88	3-D Learning-Enhanced Adaptive ILC for Iteration-Varying Formation Tasks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 89-99.	11.3	32
89	Adjacent-Agent Dynamic Linearization-Based Iterative Learning Formation Control. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 4358-4369.	9.5	47
90	Iterative Identification of Hammerstein Parameter Varying Systems With Parameter Uncertainties Based on the Variational Bayesian Approach. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020, 50, 1035-1045.	9.3	42

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91	Hierarchical Quality-Relevant Feature Representation for Soft Sensor Modeling: A Novel Deep Learning Strategy. IEEE Transactions on Industrial Informatics, 2020, 16, 3721-3730.	11.3	176
92	Data-Driven Modeling Based on Two-Stream λ Gated Recurrent Unit Network With Soft Sensor Application. IEEE Transactions on Industrial Electronics, 2020, 67, 7034-7043.	7.9	43
93	Real-Time Mode Diagnosis for Processes With Multiple Operating Conditions Using Switching Conditional Random Fields. IEEE Transactions on Industrial Electronics, 2020, 67, 5060-5070.	7.9	21
94	Distributed iterative learning temperature control for multi-zone HVAC system. Journal of the Franklin Institute, 2020, 357, 810-831.	3.4	17
95	Discrete-Time Extended State Observer-Based Model-Free Adaptive Control Via Local Dynamic Linearization. IEEE Transactions on Industrial Electronics, 2020, 67, 8691-8701.	7.9	53
96	A deep learning just-in-time modeling approach for soft sensor based on variational autoencoder. Chemometrics and Intelligent Laboratory Systems, 2020, 197, 103922.	3.5	50
97	Global convergence of the EM algorithm for ARX models with uncertain communication channels. Systems and Control Letters, 2020, 136, 104614.	2.3	10
98	Supervised Variational Autoencoders for Soft Sensor Modeling With Missing Data. IEEE Transactions on Industrial Informatics, 2020, 16, 2820-2828.	11.3	79
99	Probabilistic just-in-time approach for nonlinear modeling with Bayesian nonlinear feature extraction. Chemometrics and Intelligent Laboratory Systems, 2020, 196, 103895.	3.5	6
100	Hybrid kernel approach to Gaussian process modeling with colored noises. Computers and Chemical Engineering, 2020, 143, 107067.	3.8	2
101	Conjugate exponential family graphical models in process monitoring: A tutorial review. Chemometrics and Intelligent Laboratory Systems, 2020, 204, 104095.	3.5	4
102	A mutual information-based Variational Autoencoder for robust JIT soft sensing with abnormal observations. Chemometrics and Intelligent Laboratory Systems, 2020, 204, 104118.	3.5	9
103	Trial-and-error or avoiding a guess? Initialization of the Kalman filter. Automatica, 2020, 121, 109184.	5.0	59
104	Recursive cointegration analytics for adaptive monitoring of nonstationary industrial processes with both static and dynamic variations. Journal of Process Control, 2020, 92, 319-332.	3.3	44
105	Data-driven nonlinear ILC with varying trial lengths. Journal of the Franklin Institute, 2020, 357, 10262-10287.	3.4	7
106	Robust algorithm for attack detection based on time-varying hidden Markov model subject to outliers. International Journal of Adaptive Control and Signal Processing, 2020, 34, 1537-1558.	4.1	0
107	A hierarchical constrained reinforcement learning for optimization of bitumen recovery rate in a primary separation vessel. Computers and Chemical Engineering, 2020, 140, 106939.	3.8	15
108	Performance assessment of distributed LQG control subject to communication delays. International Journal of Control, 2020, , 1-12.	1.9	2

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109	Output-relevant Variational autoencoder for Just-in-time soft sensor modeling with missing data. <i>Journal of Process Control</i> , 2020, 92, 90-97.	3.3	33
110	Gaussian process regression with heteroscedastic noises – A machine-learning predictive variance approach. <i>Chemical Engineering Research and Design</i> , 2020, 157, 162-173.	5.6	15
111	Guest Editorial: Special Section on Smart Process Manufacturing Driven by Artificial Intelligence. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 2765-2766.	11.3	0
112	Just-in-time learning for the prediction of oil sands ore characteristics using GPS data in mining applications. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 2125-2136.	1.7	0
113	Extracting nonstationary features for process data analytics and application in fouling detection. <i>Computers and Chemical Engineering</i> , 2020, 135, 106762.	3.8	8
114	Multiple step ahead prediction based high order discrete-time sliding mode control design with actuator and communication delays. <i>Journal of the Franklin Institute</i> , 2020, 357, 7845-7863.	3.4	3
115	Data analytics approach for online produced fluid flow rate estimation in SAGD process. <i>Computers and Chemical Engineering</i> , 2020, 136, 106766.	3.8	6
116	Distributed data-driven observer for linear time invariant systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2020, 34, 503-519.	4.1	4
117	Data-driven recursive least squares methods for non-affined nonlinear discrete-time systems. <i>Applied Mathematical Modelling</i> , 2020, 81, 787-798.	4.2	12
118	A review On reinforcement learning: Introduction and applications in industrial process control. <i>Computers and Chemical Engineering</i> , 2020, 139, 106886.	3.8	253
119	Integrated well pad development scheduling with steam injection control in steam-assisted gravity drainage. <i>Journal of Process Control</i> , 2020, 89, 45-57.	3.3	2
120	Distributed control performance assessment and corresponding optimal controller design considering communication delays. <i>IET Control Theory and Applications</i> , 2020, 14, 568-576.	2.1	2
121	Modern Machine Learning Tools for Monitoring and Control of Industrial Processes: A Survey. <i>IFAC-PapersOnLine</i> , 2020, 53, 218-229.	0.9	19
122	Gap Metric Based Performance Assessment of Subcool Control in Steam Assisted Gravity Drainage Wells. <i>IFAC-PapersOnLine</i> , 2020, 53, 12002-12007.	0.9	0
123	Probabilistic Monitoring of Sensors in State-Space With Variational Bayesian Inference. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 2154-2163.	7.9	25
124	Multiple-Model State Estimation Based on Variational Bayesian Inference. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 1679-1685.	5.7	40
125	Variational Bayesian Approach for Causality and Contemporaneous Correlation Features Inference in Industrial Process Data. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 2580-2590.	9.5	15
126	Constrained ensemble Kalman filter based on Kullback-Leibler divergence. <i>Journal of Process Control</i> , 2019, 81, 150-161.	3.3	12

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127	Review and Perspectives of Data-Driven Distributed Monitoring for Industrial Plant-Wide Processes. Industrial & Engineering Chemistry Research, 2019, 58, 12899-12912.	3.7	220
128	Output relevant slow feature extraction using partial least squares. Chemometrics and Intelligent Laboratory Systems, 2019, 191, 148-157.	3.5	19
129	Iterative dynamic linearization and identification of a nonlinear learning controller: A data-driven approach. Journal of the Franklin Institute, 2019, 356, 7009-7027.	3.4	3
130	Estimation and identification in batch processes with particle filters. Journal of Process Control, 2019, 81, 1-14.	3.3	10
131	A slow independent component analysis algorithm for time series feature extraction with the concurrent consideration of high-order statistic and slowness. Journal of Process Control, 2019, 84, 1-12.	3.3	25
132	Gaussian process modelling with Gaussian mixture likelihood. Journal of Process Control, 2019, 81, 209-220.	3.3	47
133	MV Benchmark for Networked Control Systems with Random Communication Delays. IFAC-PapersOnLine, 2019, 52, 970-975.	0.9	0
134	Generalization and comparative studies of similarity measures for Just-in-Time modeling. IFAC-PapersOnLine, 2019, 52, 760-765.	0.9	4
135	Steam allocation and production optimization in SAGD reservoir under steam-to-oil ratio uncertainty. Journal of Petroleum Science and Engineering, 2019, 183, 106456.	4.2	4
136	Computer vision system for froth-middlings interface level detection in the primary separation vessels. Computers and Chemical Engineering, 2019, 123, 357-370.	3.8	12
137	A new soft-sensor algorithm with concurrent consideration of slowness and quality interpretation for dynamic chemical process. Chemical Engineering Science, 2019, 199, 28-39.	3.8	42
138	A review of the Expectation Maximization algorithm in data-driven process identification. Journal of Process Control, 2019, 73, 123-136.	3.3	88
139	Identification of robust Gaussian Process Regression with noisy input using EM algorithm. Chemometrics and Intelligent Laboratory Systems, 2019, 191, 1-11.	3.5	16
140	Dynamic prediction of interface level using spatial temporal markov random field. Computers and Chemical Engineering, 2019, 128, 301-311.	3.8	6
141	Constrained multimodal ensemble Kalman filter based on Kullback-Leibler (KL) divergence. Journal of Process Control, 2019, 79, 16-28.	3.3	14
142	Distributed multiple step ahead prediction considering communication delays. IET Control Theory and Applications, 2019, 13, 806-814.	2.1	3
143	Feature Extraction of Constrained Dynamic Latent Variables. IEEE Transactions on Industrial Informatics, 2019, 15, 5637-5645.	11.3	7
144	Hierarchically Distributed Monitoring for the Early Prediction of Gas Flare Events. Industrial & Engineering Chemistry Research, 2019, 58, 11352-11363.	3.7	19

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145	Simultaneous Static and Dynamic Analysis for Fine-Scale Identification of Process Operation Statuses. IEEE Transactions on Industrial Informatics, 2019, 15, 5320-5329.	11.3	61
146	Robust filter design for asymmetric measurement noise using variational Bayesian inference. IET Control Theory and Applications, 2019, 13, 1656-1664.	2.1	9
147	Dissipativity Analysis for Linear Systems in the Behavioural Framework. , 2019, , .		0
148	Identification of ARX Model with Multi-Gaussian Noises. , 2019, , .		1
149	Dissipativity Analysis for Linear Systems in the Behavioural Framework. , 2019, , .		2
150	Linear Time-Varying Data Model-Based Iterative Learning Recursive Least Squares Identifications for Repetitive Systems. IEEE Access, 2019, 7, 133304-133313.	4.2	9
151	Deep Discriminative Representation Learning for Nonlinear Process Fault Detection. IEEE Transactions on Automation Science and Engineering, 2019, , 1-10.	5.2	12
152	Neighborhood Variational Bayesian Multivariate Analysis for Distributed Process Monitoring With Missing Data. IEEE Transactions on Control Systems Technology, 2019, 27, 2330-2339.	5.2	19
153	Multivariate Gaussian process regression for nonlinear modelling with colored noise. Transactions of the Institute of Measurement and Control, 2019, 41, 2268-2279.	1.7	6
154	Multi-lagged-input iterative dynamic linearization based data-driven adaptive iterative learning control. Journal of the Franklin Institute, 2019, 356, 457-473.	3.4	13
155	Data rectification for multiple operating modes: A MAP framework. Computers and Chemical Engineering, 2019, 123, 272-285.	3.8	5
156	Chance-Constrained Model Predictive Control for SAGD Process Using Robust Optimization Approximation. Industrial & Engineering Chemistry Research, 2019, 58, 11407-11418.	3.7	4
157	Semi-supervised dynamic latent variable modeling: I/O probabilistic slow feature analysis approach. AIChE Journal, 2019, 65, 964-979.	3.6	27
158	Mixtures of Probabilistic PCA With Common Structure Latent Bases for Process Monitoring. IEEE Transactions on Control Systems Technology, 2019, 27, 838-846.	5.2	34
159	Robust FIR State Estimation of Dynamic Processes Corrupted by Outliers. IEEE Transactions on Industrial Informatics, 2019, 15, 139-147.	11.3	18
160	An Improved Data-Driven Point-to-Point ILC Using Additional On-Line Control Inputs With Experimental Verification. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 687-696.	9.3	62
161	Parameter estimation of Markov-switching Hammerstein systems using the variational Bayesian approach. IET Control Theory and Applications, 2019, 13, 1646-1655.	2.1	6
162	Experimental study of geysers through a vent pipe connected to flowing sewers. Water Science and Technology, 2018, 2017, 66-76.	2.5	19

#	ARTICLE	IF	CITATIONS
163	Deep Learning-Based Feature Representation and Its Application for Soft Sensor Modeling With Variable-Wise Weighted SAE. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 3235-3243.	11.3	447
164	Distributed Student's t filtering algorithm for heavy-tailed noises. <i>International Journal of Adaptive Control and Signal Processing</i> , 2018, 32, 875-890.	4.1	12
165	Expectation maximization estimation for a class of input nonlinear state space systems by using the Kalman smoother. <i>Signal Processing</i> , 2018, 145, 295-303.	3.7	21
166	A weighted heteroscedastic Gaussian Process Modelling via particle swarm optimization. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 172, 129-138.	3.5	11
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