# Chunhua Yang

List of Publications by Year
in descending order

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| 333 | 9,110 | 38742 50 | 62596 80 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 333 | 333 | 333 | 5521 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Deep Learning-Based Feature Representation and Its Application for Soft Sensor Modeling With Variable-Wise Weighted SAE. IEEE Transactions on Industrial Informatics, 2018, 14, 3235-3243. | 11.3 | 447 |
| 2 | A novel deep learning based fault diagnosis approach for chemical process with extended deep belief network. ISA Transactions, 2020, 96, 457-467. | 5.7 | 280 |
| 3 | Fault Detection for Non-Gaussian Processes Using Generalized Canonical Correlation Analysis and Randomized Algorithms. IEEE Transactions on Industrial Electronics, 2018, 65, 1559-1567. | 7.9 | 246 |
| 4 | Automated Visual Defect Detection for Flat Steel Surface: A Survey. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 626-644. | 4.7 | 242 |
| 5 | A Distributed Dynamic Event-Triggered Control Approach to Consensus of Linear Multiagent Systems With Directed Networks. IEEE Transactions on Cybernetics, 2020, 50, 869-874. | 9.5 | 237 |
| 6 | 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 |
| 7 | Set stability and set stabilization of Boolean control networks based on invariant subsets. Automatica, 2015, 61, 106-112. | 5.0 | 214 |
| 8 | Passivity-Based Asynchronous Sliding Mode Control for Delayed Singular Markovian Jump Systems. IEEE Transactions on Automatic Control, 2018, 63, 2715-2721. | 5.7 | 186 |
| 9 | 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 |
| 10 | Weighted Linear Dynamic System for Feature Representation and Soft Sensor Application in Nonlinear Dynamic Industrial Processes. IEEE Transactions on Industrial Electronics, 2018, 65, 1508-1517. | 7.9 | 144 |
| 11 | State transition algorithm. Journal of Industrial and Management Optimization, 2012, 8, 1039-1056. | 1.3 | 137 |
| 12 | Non-ferrous metals price forecasting based on variational mode decomposition and LSTM network. Knowledge-Based Systems, 2020, 188, 105006. | 7.1 | 136 |
| 13 | A Distributed Canonical Correlation Analysis-Based Fault Detection Method for Plant-Wide Process Monitoring. IEEE Transactions on Industrial Informatics, 2019, 15, 2710-2720. | 11.3 | 110 |
| 14 | Distributed Consensus of Second-Order Multiagent Systems With Nonconvex Velocity and Control Input Constraints. IEEE Transactions on Automatic Control, 2018, 63, 1171-1176. | 5.7 | 101 |
| 15 | Event-Based Fault Detection Filtering for Complex Networked Jump Systems. IEEE/ASME Transactions on Mechatronics, 2018, 23, 497-505. | 5.8 | 99 |
| 16 | A Fault-Injection Strategy for Traction Drive Control Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 5719-5727. | 7.9 | 91 |
| 17 | Soft Sensor Modeling of Nonlinear Industrial Processes Based on Weighted Probabilistic Projection Regression. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 837-845. | 4.7 | 87 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Distributed Optimization With Nonconvex Velocity Constraints, Nonuniform Position Constraints, and Nonuniform Stepsizes. IEEE Transactions on Automatic Control, 2019, 64, 2575-2582. | 5.7 | 81 |
| 20 | Deep quality-related feature extraction for soft sensing modeling: A deep learning approach with hybrid VW-SAE. Neurocomputing, 2020, 396, 375-382. | 5.9 | 78 |
| 21 | 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 |
| 22 | Finite-time asynchronous sliding mode control for Markovian jump systems. Automatica, 2019, 109, 108503. | 5.0 | 76 |
| 23 | Nonlinear system identification and control using state transition algorithm. Applied Mathematics and Computation, 2014, 226, 169-179. | 2.2 | 74 |
| 24 | Exponential Stability Analysis for Delayed Semi-Markovian Recurrent Neural Networks: A Homogeneous Polynomial Approach. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6374-6384. | 11.3 | 73 |
| 25 | A Hybrid Feature Selection Method Based on Binary State Transition Algorithm and ReliefF. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1888-1898. | 6.3 | 72 |
| 26 | Voltage Difference Residual-Based Open-Circuit Fault Diagnosis Approach for Three-Level Converters in Electric Traction Systems. IEEE Transactions on Power Electronics, 2020, 35, 3012-3028. | 7.9 | 69 |
| 27 | Event based guaranteed cost consensus for distributed multi-agent systems. Journal of the Franklin Institute, 2015, 352, 3546-3563. | 3.4 | 67 |
| 28 | A comprehensive hybrid first principles/machine learning modeling framework for complex industrial processes. Journal of Process Control, 2020, 86, 30-43. | 3.3 | 67 |
| 29 | Color co-occurrence matrix based froth image texture extraction for mineral flotation. Minerals Engineering, 2013, 46-47, 60-67. | 4.3 | 65 |
| 30 | Automated Visual Defect Classification for Flat Steel Surface: A Survey. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9329-9349. | 4.7 | 65 |
| 31 | Discrete state transition algorithm for unconstrained integer optimization problems. Neurocomputing, 2016, 173, 864-874. | 5.9 | 64 |
| 32 | Temperature Measurement and Compensation Method of Blast Furnace Molten Iron Based on Infrared Computer Vision. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3576-3588. | 4.7 | 64 |
| 33 | A Cumulative Canonical Correlation Analysis-Based Sensor Precision Degradation Detection Method. IEEE Transactions on Industrial Electronics, 2019, 66, 6321-6330. | 7.9 | 63 |
| 34 | A Deep Supervised Learning Framework for Data-Driven Soft Sensor Modeling of Industrial Processes. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4737-4746. | 11.3 | 63 |
| 35 | A novel semi-supervised pre-training strategy for deep networks and its application for quality variable prediction in industrial processes. Chemical Engineering Science, 2020, 217, 115509. | 3.8 | 63 |
| 36 | A Projective and Discriminative Dictionary Learning for High-Dimensional Process Monitoring With Industrial Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 558-568. | 11.3 | 62 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | A Novel Asynchronous Control for Artificial Delayed Markovian Jump Systems via Output Feedback Sliding Mode Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 364-374. | 9.3 | 61 |
| 38 | Deep learning for quality prediction of nonlinear dynamic processes with variable attentionâ€based long shortâ€term memory network. Canadian Journal of Chemical Engineering, 2020, 98, 1377-1389. | 1.7 | 60 |
| 39 | A new multi-threshold image segmentation approach using state transition algorithm. Applied Mathematical Modelling, 2017, 44, 588-601. | 4.2 | 59 |
| 40 | A Statistical Study on Parameter Selection of Operators in Continuous State Transition Algorithm. IEEE Transactions on Cybernetics, 2019, 49, 3722-3730. | 9.5 | 59 |
| 41 | Soft sensor model for dynamic processes based on multichannel convolutional neural network. Chemometrics and Intelligent Laboratory Systems, 2020, 203, 104050. | 3.5 | 59 |
| 42 | Flotation process fault detection using output PDF of bubble size distribution. Minerals Engineering, 2012, 26, 5-12. | 4.3 | 58 |
| 43 | Hardware-in-the-Loop Fault Injection for Traction Control System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 696-706. | 5.4 | 58 |
| 44 | An Improved Homogeneous Polynomial Approach for Adaptive Sliding-Mode Control of Markov Jump Systems With Actuator Faults. IEEE Transactions on Automatic Control, 2020, 65, 955-969. | 5.7 | 57 |
| 45 | Distributed Continuous-Time and Discrete-Time Optimization With Nonuniform Unbounded Convex Constraint Sets and Nonuniform Stepsizes. IEEE Transactions on Automatic Control, 2019, 64, 5148-5155. | 5.7 | 56 |
| 46 | Multiâ€similarity measurement driven ensemble justâ€inâ€time learning for soft sensing of industrial processes. Journal of Chemometrics, 2018, 32, e3040. | 1.3 | 55 |
| 47 | Optimal control of an SIVRS epidemic spreading model with virus variation based on complex networks. Communications in Nonlinear Science and Numerical Simulation, 2017, 48, 200-210. | 3.3 | 54 |
| 48 | Generalized Predictive Control for Industrial Processes Based on Neuron Adaptive Splitting and Merging RBF Neural Network. IEEE Transactions on Industrial Electronics, 2019, 66, 1192-1202. | 7.9 | 54 |
| 49 | A data-driven ground fault detection and isolation method for main circuit in railway electrical traction system. ISA Transactions, 2019, 87, 264-271. | 5.7 | 54 |
| 50 | Structure Dictionary Learning-Based Multimode Process Monitoring and its Application to Aluminum Electrolysis Process. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1989-2003. | 5.2 | 54 |
| 51 | Multimode process monitoring based on robust dictionary learning with application to aluminium electrolysis process. Neurocomputing, 2019, 332, 305-319. | 5.9 | 53 |
| 52 | A novel modularity-based discrete state transition algorithm for community detection in networks. Neurocomputing, 2019, 334, 89-99. | 5.9 | 52 |
| 53 | Integrated prediction model of bauxite concentrate grade based on distributed machine vision. Minerals Engineering, 2013, 53, 31-38. | 4.3 | 49 |
| 54 | An integrated predictive model with an on-line updating strategy for iron precipitation in zinc hydrometallurgy. Hydrometallurgy, 2015, 151, 62-72. | 4.3 | 49 |

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|---|---|---|---|
| 55 | Fractional-order PID controller tuning using continuous state transition algorithm. Neural Computing and Applications, 2018, 29, 795-804. | 5.6 | 49 |
| 56 | Heterogeneous cooperative belief for social dilemma in multi-agent system. Applied Mathematics and Computation, 2018, 320, 572-579. | 2.2 | 48 |
| 57 | Nonlinear process monitoring using kernel dictionary learning with application to aluminum electrolysis process. Control Engineering Practice, 2019, 89, 94-102. | 5.5 | 48 |
| 58 | A Uniform Modeling Method Based on Open-Circuit Faults Analysis for NPC-Three-Level Converter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 457-461. | 3.0 | 47 |
| 59 | Surface Defect Classification for Hot-Rolled Steel Strips by Selectively Dominant Local Binary Patterns. IEEE Access, 2019, 7, 23488-23499. | 4.2 | 47 |
| 60 | Stability analysis and design of reset control systems with discrete-time triggering conditions. Automatica, 2012, 48, 528-535. | 5.0 | 46 |
| 61 | A dynamic state transition algorithm with application to sensor network localization. Neurocomputing, 2018, 273, 237-250. | 5.9 | 46 |
| 62 | Highly sensitive detection of Pb2+ and Cu2+ based on ZIF-67/MWCNT/Nafion-modified glassy carbon electrode. Analytica Chimica Acta, 2020, 1124, 166-175. | 5.4 | 46 |
| 63 | Reagent Addition Control for Stibium Rougher Flotation Based on Sensitive Froth Image Features. IEEE Transactions on Industrial Electronics, 2017, 64, 4199-4206. | 7.9 | 45 |
| 64 | Set-Point Tracking and Multi-Objective Optimization-Based PID Control for the Goethite Process. IEEE Access, 2018, 6, 36683-36698. | 4.2 | 45 |
| 65 | Sub-ppb SO2 gas sensor based on NASICON and LaxSm1-xFeO3 sensing electrode. Sensors and Actuators B: Chemical, 2018, 256, 648-655. | 7.8 | 44 |
| 66 | A unified parameter identification method for nonlinear time-delay systems. Journal of Industrial and Management Optimization, 2013, 9, 471-486. | 1.3 | 43 |
| 67 | Dynamic multi-objective optimization arising in iron precipitation of zinc hydrometallurgy. Hydrometallurgy, 2017, 173, 134-148. | 4.3 | 42 |
| 68 | Containment Control for Discrete-Time Multiagent Systems With Communication Delays and Switching Topologies. IEEE Transactions on Cybernetics, 2019, 49, 3827-3830. | 9.5 | 42 |
| 69 | Distributed Containment Control of Continuous-Time Multiagent Systems With Nonconvex Control Input Constraints. IEEE Transactions on Industrial Electronics, 2019, 66, 7927-7934. | 7.9 | 42 |
| 70 | Mixed potential type sensor based on stabilized zirconia and Co1-xZnx Fe2O4 sensing electrode for detection of acetone. Sensors and Actuators B: Chemical, 2018, 255, 1173-1181. | 7.8 | 41 |
| 71 | CeO2-based mixed potential type acetone sensor using La1-xSrxCoO3 sensing electrode. Sensors and Actuators B: Chemical, 2018, 269, 118-126. | 7.8 | 40 |
| 72 | Kinetic Modeling and Parameter Estimation for Competing Reactions in Copper Removal Process from Zinc Sulfate Solution. Industrial & Engineering Chemistry Research, 2013, 52, 17074-17086. | 3.7 | 39 |

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| 73 | Stability and Set Stability in Distribution of Probabilistic Boolean Networks. IEEE Transactions on Automatic Control, 2018, , 1-1. | 5.7 | 39 |
| 74 | Distributed dictionary learning for high-dimensional process monitoring. Control Engineering Practice, 2020, 98, 104386. | 5.5 | 39 |
| 75 | Complex networks-based texture extraction and classification method for mineral flotation froth images. Minerals Engineering, 2015, 83, 105-116. | 4.3 | 38 |
| 76 | Stacked isomorphic autoencoder based soft analyzer and its application to sulfur recovery unit. Information Sciences, 2020, 534, 72-84. | 6.9 | 38 |
| 77 | Recognition of the operational statuses of reagent addition using dynamic bubble size distribution in copper flotation process. Minerals Engineering, 2013, 45, 128-141. | 4.3 | 36 |
| 78 | Probability density function of bubble size based reagent dosage predictive control for copper roughing flotation. Control Engineering Practice, 2014, 29, 1-12. | 5.5 | 36 |
| 79 | Highly sensitive gas sensor based on stabilized zirconia and CdMoO4 sensing electrode for detection of acetone. Sensors and Actuators B: Chemical, 2017, 248, 9-18. | 7.8 | 36 |
| 80 | Decentralized stabilization of large-scale feedforward systems using saturated delayed controls. Automatica, 2012, 48, 89-94. | 5.0 | 35 |
| 81 | Probabilistic density-based regression model for soft sensing of nonlinear industrial processes. Journal of Process Control, 2017, 57, 15-25. | 3.3 | 34 |
| 82 | Noise-robust self-adaptive support vector machine for residual oxygen concentration measurement. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1. | 4.7 | 34 |
| 83 | A Novel Device for Optical Imaging of Blast Furnace Burden Surface: Parallel Low-Light-Loss Backlight High-Temperature Industrial Endoscope. IEEE Sensors Journal, 2016, 16, 6703-6717. | 4.7 | 33 |
| 84 | Process working condition recognition based on the fusion of morphological and pixel set features of froth for froth flotation. Minerals Engineering, 2018, 128, 17-26. | 4.3 | 33 |
| 85 | Headspace Oxygen Concentration Measurement for Pharmaceutical Glass Bottles in Open-Path Optical Environment Using TDLAS/WMS. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5828-5842. | 4.7 | 33 |
| 86 | A class of optimal state-delay control problems. Nonlinear Analysis: Real World Applications, 2013, 14, 1536-1550. | 1.7 | 32 |
| 87 | Nonparametric density estimation of froth colour texture distribution for monitoring sulphur flotation process. Minerals Engineering, 2013, 53, 203-212. | 4.3 | 32 |
| 88 | YSZ-based mixed potential H2S sensor using La2NiO4 sensing electrode. Sensors and Actuators B: Chemical, 2018, 255, 3033-3039. | 7.8 | 32 |
| 89 | Effects of external forcing on evolutionary games in complex networks. Chaos, 2018, 28, 093108. | 2.5 | 32 |
| 90 | A novel fault diagnosis method based on optimal relevance vector machine. Neurocomputing, 2017, 267, 651-663. | 5.9 | 31 |

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|---|---|---|---|
| 91 | Modeling and optimal-setting control of blending process in a metallurgical industry. Computers and Chemical Engineering, 2009, 33, 1289-1297. | 3.8 | 30 |
| 92 | A Two-stage State Transition Algorithm for Constrained Engineering Optimization Problems. International Journal of Control, Automation and Systems, 2018, 16, 522-534. | 2.7 | 30 |
| 93 | Baseline correction for Raman spectra using penalized spline smoothing based on vector transformation. Analytical Methods, 2018, 10, 3525-3533. | 2.7 | 30 |
| 94 | Hybrid intelligent control of gas collectors of coke ovens. Control Engineering Practice, 2001, 9, 725-733. | 5.5 | 29 |
| 95 | Evaluation strategy for the control of the copper removal process based on oxidationâ€“reduction potential. Chemical Engineering Journal, 2016, 284, 294-304. | 12.7 | 29 |
| 96 | Understanding cooperative behavior of agents with heterogeneous perceptions in dynamic networks. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 234-240. | 2.6 | 29 |
| 97 | A novel robust data reconciliation method for industrial processes. Control Engineering Practice, 2019, 83, 203-212. | 5.5 | 29 |
| 98 | Temperature Uniformity Control of Large-Scale Vertical Quench Furnaces for Aluminum Alloy Thermal Treatment. IEEE Transactions on Control Systems Technology, 2016, 24, 24-39. | 5.2 | 28 |
| 99 | Initial Version of State Transition Algorithm. , 2011, , . | | 27 |
| 100 | A Hybrid Control Strategy for Real-Time Control of the Iron Removal Process of the Zinc Hydrometallurgy Plants. IEEE Transactions on Industrial Informatics, 2018, 14, 5278-5288. | 11.3 | 27 |
| 101 | Modeling, optimization, and control of solution purification process in zinc hydrometallurgy. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 564-576. | 13.1 | 26 |
| 102 | Dynamic optimization based on state transition algorithm for copper removal process. Neural Computing and Applications, 2019, 31, 2827-2839. | 5.6 | 26 |
| 103 | CeO2-based mixed potential type acetone sensor using MMnO3 (M: Sr, Ca, La and Sm) sensing electrode. Solid State Ionics, 2018, 317, 53-59. | 2.7 | 25 |
| 104 | Time-optimal state feedback stabilization of switched Boolean control networks. Neurocomputing, 2017, 237, 265-271. | 5.9 | 24 |
| 105 | Fractional order fuzzy PID optimal control in copper removal process of zinc hydrometallurgy. Hydrometallurgy, 2018, 178, 60-76. | 4.3 | 24 |
| 106 | A data-driven optimal control approach for solution purification process. Journal of Process Control, 2018, 68, 171-185. | 3.3 | 24 |
| 107 | Dynamic Optimization for Copper Removal Process With Continuous Production Constraints. IEEE Transactions on Industrial Informatics, 2020, 16, 7255-7263. | 11.3 | 24 |
| 108 | Multivariate Regression Model for Industrial Process Measurement Based on Double Locally Weighted Partial Least Squares. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3962-3971. | 4.7 | 23 |

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|---|---|---|---|
| 109 | Parameter selection of support vector regression based on hybrid optimization algorithm and its application. Journal of Control Theory and Applications, 2005, 3, 371-376. | 0.8 | 22 |
| 110 | Wet grindability of an industrial ore and its breakage parameters estimation using population balances. International Journal of Mineral Processing, 2011, 98, 113-117. | 2.6 | 22 |
| 111 | A Novel Cognitively Inspired State Transition Algorithm for Solving the Linear Bi-Level Programming Problem. Cognitive Computation, 2018, 10, 816-826. | 5.2 | 22 |
| 112 | Asynchronous Filtering for Delayed Markovian Jump Systems via Homogeneous Polynomial Approach. IEEE Transactions on Automatic Control, 2020, 65, 2163-2170. | 5.7 | 22 |
| 113 | An integrated prediction model of heavy metal ion concentration for iron electrocoagulation process. Chemical Engineering Journal, 2020, 391, 123628. | 12.7 | 22 |
| 114 | Time-delay estimation for nonlinear systems with piecewise-constant input. Applied Mathematics and Computation, 2013, 219, 9543-9560. | 2.2 | 21 |
| 115 | Dynamic simulation and test research of impact performance of hydraulic rock drill with no constant-pressurized chamber. Automation in Construction, 2014, 37, 211-216. | 9.8 | 21 |
| 116 | State-transition-algorithm-based resolution for overlapping linear sweep voltammetric peaks with high signal ratio. Chemometrics and Intelligent Laboratory Systems, 2016, 151, 61-70. | 3.5 | 21 |
| 117 | Additive requirement ratio prediction using trend distribution features for hydrometallurgical purification processes. Control Engineering Practice, 2016, 46, 10-25. | 5.5 | 21 |
| 118 | A novel non-uniform control vector parameterization approach with time grid refinement for flight level tracking optimal control problems. ISA Transactions, 2018, 73, 66-78. | 5.7 | 21 |
| 119 | A hybrid feature selection method for production condition recognition in froth flotation with noisy labels. Minerals Engineering, 2020, 153, 106201. | 4.3 | 21 |
| 120 | Baseline correction method based on doubly reweighted penalized least squares. Applied Optics, 2019, 58, 3913. | 1.8 | 21 |
| 121 | An optimal power-dispatching system using neural networks for the electrochemical process of zinc depending on varying prices of electricity. IEEE Transactions on Neural Networks, 2002, 13, 229-236. | 4.2 | 20 |
| 122 | Semantic Network Based on Intuitionistic Fuzzy Directed Hyper-Graphs and Application to Aluminum Electrolysis Cell Condition Identification. IEEE Access, 2017, 5, 20145-20156. | 4.2 | 20 |
| 123 | Controllable-Domain-Based Fuzzy Rule Extraction for Copper Removal Process Control. IEEE Transactions on Fuzzy Systems, 2018, 26, 1744-1756. | 9.8 | 20 |
| 124 | Energy-aware scheduling for information fusion in wireless sensor network surveillance. Information Fusion, 2019, 48, 95-106. | 19.1 | 20 |
| 125 | Optimizing zinc electrowinning processes with current switching via Deep Deterministic Policy Gradient learning. Neurocomputing, 2020, 380, 190-200. | 5.9 | 20 |
| 126 | Using hybrid normalization technique and state transition algorithm to VIKOR method for influence maximization problem. Neurocomputing, 2020, 410, 41-50. | 5.9 | 20 |

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|---|---|---|---|
| 127 | Causal augmented ConvNet: A temporal memory dilated convolution model for long-sequence time series prediction. ISA Transactions, 2022, 123, 200-217. | 5.7 | 20 |
| 128 | A gradient optimization scheme for solution purification process. Control Engineering Practice, 2015, 44, 89-103. | 5.5 | 19 |
| 129 | Combined fuzzy based feedforward and bubble size distribution based feedback control for reagent dosage in copper roughing process. Journal of Process Control, 2016, 39, 50-63. | 3.3 | 19 |
| 130 | Redefined observability matrix for Boolean networks and distinguishable partitions of state space. Automatica, 2018, 91, 316-319. | 5.0 | 19 |
| 131 | Asynchronous output feedback control for fuzzy Markovian jump systems via sliding mode. Journal of the Franklin Institute, 2019, 356, 8952-8970. | 3.4 | 19 |
| 132 | A trend-based event-triggering fuzzy controller for the stabilizing control of a large-scale zinc roaster. Journal of Process Control, 2021, 97, 59-71. | 3.3 | 19 |
| 133 | Functional deep echo state network improved by a bi-level optimization approach for multivariate time series classification. Applied Soft Computing Journal, 2021, 106, 107314. | 7.2 | 19 |
| 134 | An optimal power-dispatching control system for the electrochemical process of zinc based on backpropagation and hopfield neural networks. IEEE Transactions on Industrial Electronics, 2003, 50, 953-961. | 7.9 | 18 |
| 135 | Temperature Measurement Method for Blast Furnace Molten Iron Based on Infrared Thermography and Temperature Reduction Model. Sensors, 2018, 18, 3792. | 3.8 | 18 |
| 136 | Swarm intelligence inspired cooperation promotion and symmetry breaking in interdependent networked game. Chaos, 2019, 29, 043101. | 2.5 | 18 |
| 137 | Energy Consumption Forecasting for the Nonferrous Metallurgy Industry Using Hybrid Support Vector Regression with an Adaptive State Transition Algorithm. Cognitive Computation, 2020, 12, 357-368. | 5.2 | 18 |
| 138 | Application of highlight removal and multivariate image analysis to color measurement of flotation bubble images. International Journal of Imaging Systems and Technology, 2009, 19, 316-322. | 4.1 | 17 |
| 139 | Hybrid modeling of an industrial grinding-classification process. Powder Technology, 2015, 279, 75-85. | 4.2 | 17 |
| 140 | Weighted-coupling CSTR modeling and model predictive control with parameter adaptive correction for the goethite process. Journal of Process Control, 2018, 68, 254-267. | 3.3 | 17 |
| 141 | A new transformation into state transition algorithm for finding the global minimum. , 2011, , . | | 16 |
| 142 | Multi-model soft measurement method of the froth layer thickness based on visual features. Chemometrics and Intelligent Laboratory Systems, 2016, 154, 112-121. | 3.5 | 16 |
| 143 | An effective fault diagnosis approach based on optimal weighted least squares support vector machine. Canadian Journal of Chemical Engineering, 2017, 95, 2357-2366. | 1.7 | 16 |
| 144 | Improved CCM for variable causality detection in complex systems. Control Engineering Practice, 2019, 83, 67-82. | 5.5 | 16 |

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|---|---|---|---|
| 145 | Kernel intuitionistic fuzzy c-means and state transition algorithm for clustering problem. Soft Computing, 2020, 24, 15507-15518. | 3.6 | 16 |
| 146 | A Comparative Study of State Transition Algorithm with Harmony Search and Artificial Bee Colony. Advances in Intelligent Systems and Computing, 2013, , 651-659. | 0.6 | 16 |
| 147 | Recognition of flooding and sinking conditions in flotation process using soft measurement of froth surface level and QTA. Chemometrics and Intelligent Laboratory Systems, 2017, 169, 45-52. | 3.5 | 15 |
| 148 | Layered online data reconciliation strategy with multiple modes for industrial processes. Control Engineering Practice, 2018, 77, 63-72. | 5.5 | 15 |
| 149 | Optimal Setting and Control Strategy for Industrial Process Based on Discrete-Time Fractional-Order PI$^{lambda}$ D$^{mu}$. IEEE Access, 2019, 7, 47747-47761. | 4.2 | 15 |
| 150 | A New Data-Driven Model-Free Adaptive Control for Discrete-Time Nonlinear Systems. IEEE Access, 2019, 7, 126224-126233. | 4.2 | 15 |
| 151 | Dynamic Analysis and Finite-Time Synchronization of a New Hyperchaotic System With Coexisting Attractors. IEEE Access, 2019, 7, 52896-52902. | 4.2 | 15 |
| 152 | Design and implementation of finite time sliding mode controller for fuzzy overhead crane system. ISA Transactions, 2022, 124, 374-385. | 5.7 | 15 |
| 153 | Cost-sensitive large margin distribution machine for fault detection of wind turbines. Cluster Computing, 2019, 22, 7525-7537. | 5.0 | 15 |
| 154 | An Encryption Algorithm Based on Transformed Logistic Map. , 2009, , . | | 14 |
| 155 | Comparison of Two Basic Statistics for Fault Detection and Process Monitoring. IFAC-PapersOnLine, 2017, 50, 14776-14781. | 0.9 | 14 |
| 156 | A novel variable selection method based on stability and variable permutation for multivariate calibration. Chemometrics and Intelligent Laboratory Systems, 2018, 182, 188-201. | 3.5 | 14 |
| 157 | Simultaneous Determination of Metal Ions in Zinc Sulfate Solution Using UVâ€“Vis Spectrometry and SPSE-XGBoost Method. Sensors, 2020, 20, 4936. | 3.8 | 14 |
| 158 | Adaptive process monitoring via online dictionary learning and its industrial application. ISA Transactions, 2021, 114, 399-412. | 5.7 | 14 |
| 159 | A two-stage intelligent optimization system for the raw slurry preparing process of alumina sintering production. Engineering Applications of Artificial Intelligence, 2009, 22, 786-795. | 8.1 | 13 |
| 160 | Dataâ€driven flotation reagent changing evaluation via union distribution analysis of bubble size and shape. Canadian Journal of Chemical Engineering, 2018, 96, 2616-2626. | 1.7 | 13 |
| 161 | A spectrophotometric method for simultaneous determination of trace ions of copper, cobalt, and nickel in the zinc sulfate solution by ultraviolet-visible spectrometry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 223, 117370. | 3.9 | 13 |
| 162 | Power scheduling optimization under single-valued neutrosophic uncertainty. Neurocomputing, 2020, 382, 12-20. | 5.9 | 13 |

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|---|---|---|---|
| 163 | Consensus of linear multi-agent systems by distributed dynamic event-triggered control. , 2017, , . | | 12 |
| 164 | Data reconciliation strategy with time registration for the evaporation process in alumina production. Canadian Journal of Chemical Engineering, 2018, 96, 189-204. | 1.7 | 12 |
| 165 | Distributed parameter modeling and optimal control of the oxidation rate in the iron removal process. Journal of Process Control, 2018, 61, 47-57. | 3.3 | 12 |
| 166 | A New Data Reconciliation Strategy Based on Mutual Information for Industrial Processes. Industrial & Engineering Chemistry Research, 2018, 57, 12861-12870. | 3.7 | 12 |
| 167 | High-Performance Electrochemical Sensor Based on Mn<sub>1-x</sub>Zn<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> Nanoparticle/Nafion-Modified Glassy Carbon Electrode for Pb<sup>2+</sup> Detection. Journal of the Electrochemical Society, 2019, 166, B341-B348. | 2.9 | 12 |
| 168 | Adaptive over-sampling method for classification with application to imbalanced datasets in aluminum electrolysis. Neural Computing and Applications, 2020, 32, 7183-7199. | 5.6 | 12 |
| 169 | A geometry constrained dictionary learning method for industrial process monitoring. Information Sciences, 2021, 546, 265-282. | 6.9 | 12 |
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