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Professional field: Control science and engineering

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Profile

Li Shaojun, researcher at Department of Automation, School of Information Science and Engineering.

Research Field

Fault detection, evolutionary algorithm, process system modeling and optimization

Research results and selected published papers

- 1) Qiong Jia, Shaojun Li, Process Monitoring Based on Multiblock Rolling Pin Vine Copula, ***Industrial & Engineering Chemistry Research***, 2020, 59, 40, 18050-18060
- 2) Yang Zhou, Shaojun Li, Nonlinear Non-Gaussian and Multimode Process Monitoring Based Multi-subspace Vine Copula and Deep Neural Network, ***Industrial & Engineering Chemistry Research***, 2020, 59, 32, 14385-14397
- 3) Yitong Tian, Yihui Jin, Shaojun Li, Modeling and optimization of inter-plant indirect heat exchanger network by difference evolutionary algorithm, ***Chemical Engineering Science***, 2020, 227:115924
- 4) Qiong Jia, Shaojun Li, Process monitoring and fault diagnosis based on a regular vine and Bayesian network, ***Industrial & Engineering Chemistry Research***, 2020, 59, 26, 12144-12155
- 5) Yitong Tian, Shihao Wang, Kai Liu, Shaojun Li, Multi-plant Direct Heat Integration Considering Safe Redundancy through a Bilevel Simultaneous Algorithm, ***Chemical Engineering Science***, 2020, 222: 115662.
- 6) Yang Zhou, Xiang Ren, Shaojun Li, Probabilistic density-based copula regression model for soft sensing of complex industrial processes, ***IEEE Transaction on Industrial Information***, 2020, 16 (11):6972-6981
- 7) Jianeng Ni, Shaojun Li, Hamiltonian Monte Carlo-Based C-vine Copula Regression Model for Soft Sensing Modeling of Complex Chemical Processes, ***Industrial & Engineering Chemistry Research***, 2020, 59(4):1607-1618.
- 8) Yang Zhou, Shaojun Li, Ning Xiong, Improved Vine Copula-Based Dependence Description for Multivariate Process Monitoring based on Ensemble Learning, ***Industrial & Engineering Chemistry Research***, 2019, 58(9):3782-3796
- 9) Huangji Pan, Yuhui Jin, Shaojun Li, Multi-plant Indirect Heat Integration Based on the Alopex-based Evolutionary Algorithm, ***Energy***, 2018, 163:811-821.
- 10) Yang Zhou, Shaojun Li, Enhancing quality of Vine Copula-based dependence description for multivariate multimode process monitoring with active learning strategy, ***Industrial & Engineering Chemistry Research***, 2018, 57:7961-7974.
- 11) Nan Zhou, Shaojun Li, Nonlinear and Non-Gaussian Process Monitoring Based on Simplified R-vine Copula, ***Industrial & Engineering Chemistry Research***, 2018, 57:7566-7582
- 12) Yuhui Jin, Chuei-Tin Chang, Shaojun Li*, Da Jiang, On the Use of Risk-Based Shapley Values for Cost Sharing in Interplant Heat Integration Programs, ***Applied Energy***, 2018, 211:904-920