

# A data-driven model for the air-cooling condenser of the reconciliation and support vector regression

Applied Thermal Engineering

129, 1496-1507

DOI: [10.1016/j.applthermaleng.2017.10.103](https://doi.org/10.1016/j.applthermaleng.2017.10.103)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Enhancement of performance monitoring of a coal-fired power plant via dynamic data reconciliation. Energy, 2018, 151, 203-210.	8.8	16
2	Support vector regression modeling of the performance of an R1234yf automotive air conditioning system. Energy Procedia, 2018, 153, 309-314.	1.8	16
3	Typical condition library construction for the development of data-driven models in power plants. Applied Thermal Engineering, 2018, 143, 160-171.	6.0	21
4	Comparative Evaluation of Integrated Waste Heat Utilization Systems for Coal-Fired Power Plants Based on In-Depth Boiler-Turbine Integration and Organic Rankine Cycle. Entropy, 2018, 20, 89.	2.2	13
5	The Application of Cyber Physical System for Thermal Power Plants: Data-Driven Modeling. Energies, 2018, 11, 690.	3.1	25
6	Globally optimal design of air coolers considering fan performance. Applied Thermal Engineering, 2019, 161, 114188.	6.0	9
7	Aeroengine data reconciliation model based on cooperative working equations. Energy, 2019, 186, 115914.	8.8	9
8	Application and limits of a constant effectiveness model for predicting the pressure of steam condensers at off-design loads and cooling fluid temperatures. Applied Thermal Engineering, 2019, 158, 113779.	6.0	11
9	Development of guidelines for optimal operation of a cogeneration system. Journal of the Taiwan Institute of Chemical Engineers, 2019, 101, 127-138.	5.3	0
10	Data reconciliation in the Quality-by-Design (QbD) implementation of pharmaceutical continuous tablet manufacturing. International Journal of Pharmaceutics, 2019, 563, 259-272.	5.2	26
11	Hybrid modelling and digital twin development of a steam turbine control stage for online performance monitoring. Renewable and Sustainable Energy Reviews, 2020, 133, 110077.	16.4	32
12	Pattern reconciliation: A new approach involving constrained clustering of time series. Computers and Chemical Engineering, 2021, 145, 107169.	3.8	3
13	Operation strategies of axial flow fans in a direct dry cooling system under various meteorological conditions. Heat Transfer, 2021, 50, 4481-4500.	3.0	2
14	A Review on Data Reconciliation and Gross Error Detection for Process Plant Energy Management. IOP Conference Series: Materials Science and Engineering, 2021, 1051, 012052.	0.6	0
15	A global thermodynamic measurement data reconciliation model considering boundary conditions and parameter correlations and its applications to natural gas compressors. Measurement: Journal of the International Measurement Confederation, 2021, 172, 108972.	5.0	8
16	Application of machine learning to develop a real-time air-cooled condenser monitoring platform using thermofluid simulation data. Energy and AI, 2021, 3, 100048.	10.6	8
17	Performance Prediction and Optimization of the Air-Cooled Condenser in a Large-Scale Power Plant Using Machine Learning. Energy Technology, 2021, 9, 2100045.	3.8	5
18	Energy-efficient operation of a direct air-cooled condenser based on divisional regulation. International Journal of Refrigeration, 2021, 132, 233-242.	3.4	5

#	ARTICLE	IF	CITATIONS
19	A review of system modeling, assessment and operational optimization for integrated energy systems. Science China Information Sciences, 2021, 64, 1.	4.3	27
20	Dynamic modeling and control of direct air-cooling condenser pressure considering couplings with adjacent systems. Energy, 2021, 236, 121487.	8.8	4
21	Continuous Feeding-Blending in Pharmaceutical Continuous Manufacturing. AAPS Advances in the Pharmaceutical Sciences Series, 2020, , 193-226.	0.6	3
22	Operational trend prediction and classification for chemical processes: A novel convolutional neural network method based on symbolic hierarchical clustering. Chemical Engineering Science, 2020, 225, 115796.	3.8	15
23	Development of Guidelines for Optimal Operation of a Cogeneration System. Computer Aided Chemical Engineering, 2019, 46, 1291-1296.	0.5	0
24	Data-Driven Air-Cooled Condenser Performance Assessment: Model and Input Variable Selection Comparison. E3S Web of Conferences, 2020, 197, 10003.	0.5	0
25	Hybrid Modeling Based Digital Twin for Performance Optimization with Flexible Operation in the Direct Air-Cooling Power Unit. SSRN Electronic Journal, 0, , .	0.4	0
26	Efficient Stochastic Model for Operational Availability Optimization of Cooling Tower Using Metaheuristic Algorithms. IEEE Access, 2022, 10, 24659-24677.	4.2	34
27	Stochastic modeling and availability optimization of condenser used in steam turbine power plants using GA and PSO. Quality and Reliability Engineering International, 2022, 38, 2670-2690.	2.3	14
28	Gross error detection in steam turbine measurements based on data reconciliation of inequality constraints. Energy, 2022, 253, 124009.	8.8	4
29	Hybrid modeling-based digital twin for performance optimization with flexible operation in the direct air-cooling power unit. Energy, 2022, 254, 124492.	8.8	16
30	Multi-Model-Based Predictive Control for Divisional Regulation in the Direct Air-Cooling Condenser. Energies, 2022, 15, 4803.	3.1	0
31	Variance Correction Principal Component Analysis “Gross Error Detection with Serially Correlated Data. Measurement Science and Technology, 0, , .	2.6	0
32	Hybrid modelling and simulation of thermal systems of in-service power plants for digital twin development. Energy, 2022, 260, 125088.	8.8	16
33	Predictive Analysis of Air-Cooled Condenser by Considering Fouling Using Machine Learning Algorithm. Lecture Notes in Mechanical Engineering, 2023, , 225-234.	0.4	0
34	Development of geo-environmental factors controlled flash flood hazard map for emergency relief operation in complex hydro-geomorphic environment of tropical river, India. Environmental Science and Pollution Research, 2023, 30, 106951-106966.	5.3	19
35	Data reconciliation-based simulation of thermal power plants for performance estimation and digital twin development. Computers and Chemical Engineering, 2022, 168, 108063.	3.8	3
36	A novel combined model for heat load prediction in district heating systems. Applied Thermal Engineering, 2023, 227, 120372.	6.0	5

#	ARTICLE	IF	CITATIONS
37	An application of IIoT framework in system design, performance monitoring and control for industrial process heater. <i>International Journal on Interactive Design and Manufacturing</i> , 0, , .	2.2	4
38	Performance optimization of the air-cooling system in a coal-fired power unit based on intelligent algorithms. <i>Applied Thermal Engineering</i> , 2023, 230, 120791.	6.0	1
39	4E and Multi-criteria Optimization of a New Alternative Intercooling Method for Modified Brayton Cycle on the Operation of a Hybrid Energy System. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 0, , .	1.3	1
40	Joint data reconciliation and artificial neural network based modelling: Application to a cogeneration power plant. <i>Applied Thermal Engineering</i> , 2024, 236, 121720.	6.0	0
41	Application of deep learning modelling of the optimal operation conditions of auxiliary equipment of combined cycle gas turbine power station. <i>Energy</i> , 2023, 285, 129331.	8.8	3
42	Long-Time Temperature Forecasting for Power Plant Boiler Based on Data-Driven Model. , 2023, , .		0