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Prediction of buildings temperature using neural networks models

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152	Non-invasive temperature prediction of in vitro therapeutic ultrasound signals using neural networks. 2006 , 44, 111-6		12
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150	Development and validation of regression models to predict monthly heating demand for residential buildings. <i>Energy and Buildings</i> , 2008 , 40, 1825-1832	7	218
149	Neuro-genetic non-invasive temperature estimation: intensity and spatial prediction. 2008 , 43, 127-39		4
148	A soft-computing methodology for noninvasive time-spatial temperature estimation. 2008 , 55, 572-80		21
147	Object-Centric Thermal Mapping: A wireless sensor network perspective. 2009,		1
146	Thermal behaviour model identification for an office space using BMS data. 2009 , 30, 329-341		1
145	Research of Forecasting Model for Regional Data in GIS Based on Back Propagation Neural Network. 2009 ,		
144	Artificial neural networks for automated year-round temperature prediction. <i>Computers and Electronics in Agriculture</i> , 2009 , 68, 52-61	6.5	76
143	Prediction of indoor temperature and relative humidity using neural network models: model comparison. <i>Neural Computing and Applications</i> , 2009 , 18, 345-357	4.8	85
142	Review of utilization of genetic algorithms in heat transfer problems. 2009 , 52, 2169-2188		283
141	Advances in Computation and Intelligence. Lecture Notes in Computer Science, 2009,	0.9	2
140	Utilization of Artificial Neural Networks in the Context of Materials Selection for Thermofluid Design. 2009 , 55, 825-844		13
139	MOGA Design of Temperature and Relative Humidity Models for Predictive Thermal Comfort.1. 2010 , 43, 116-121		3
138	Thermal behaviour prediction utilizing artificial neural networks for an open office. 2010 , 34, 3216-323	0	41
137	ANN-based thermal control models for residential buildings. <i>Building and Environment</i> , 2010 , 45, 1612-	1625	111
136	A one-step neural network model predictive controller. 2010,		

135 A nonlinear predictive model based on BP neural network. 2010,

134	Online sliding-window based for training MLP networks using advanced conjugate gradient. 2011 ,		4
133	Hybrid PID-fuzzy control scheme for managing energy resources in buildings. 2011 , 11, 5068-5080		35
132	Development of a model for urban heat island prediction using neural network techniques. <i>Sustainable Cities and Society</i> , 2011 , 1, 104-115	10.1	59
131	Prediction of room temperature and relative humidity by autoregressive linear and nonlinear neural network models for an open office. <i>Energy and Buildings</i> , 2011 , 43, 1452-1460	7	102
130	Prediction of daily maximum temperature using a support vector regression algorithm. 2011 , 36, 3054-	3060	42
129	Sliding-window learning using MLP networks with data store management. 2011 ,		1
128	Models for Prediction of Daily Mean Indoor Temperature and Relative Humidity: Education Building in Izmir, Turkey. 2012 , 21, 772-781		28
127	Missing data estimation for energy resources management in tertiary buildings. 2012,		2
126	A neural network based intelligent predictive sensor for cloudiness, solar radiation and air temperature. 2012 , 12, 15750-77		23
125	A New Zone Temperature Predictive Modeling for Energy Saving in Buildings. 2012 , 49, 142-151		22
124	Accurate local very short-term temperature prediction based on synoptic situation Support Vector Regression banks. 2012 , 107, 1-8		19
123	Neural networks based predictive control for thermal comfort and energy savings in public buildings. <i>Energy and Buildings</i> , 2012 , 55, 238-251	7	278
122	Simplified thermal and hygric building models: A literature review. 2012 , 1, 318-325		87
121	Performance of ANN-based predictive and adaptive thermal-control methods for disturbances in and around residential buildings. <i>Building and Environment</i> , 2012 , 48, 15-26	6.5	51
120	Neural network based prediction method for preventing condensation in chilled ceiling systems. <i>Energy and Buildings</i> , 2012 , 45, 290-298	7	37
119	Development of ANN model for geothermal district heating system and a novel PID-based control strategy. <i>Applied Thermal Engineering</i> , 2013 , 51, 908-916	5.8	39
118	Inverse modeling of simplified hygrothermal building models to predict and characterize indoor climates. <i>Building and Environment</i> , 2013 , 68, 87-99	6.5	56

117	Multi-zone temperature prediction in a commercial building using artificial neural network model. 2013 ,		11
116	Development of an artificial neural network model based thermal control logic for double skin envelopes in winter. <i>Building and Environment</i> , 2013 , 61, 149-159	6.5	43
115	Optimizing building comfort temperature regulation via model predictive control. <i>Energy and Buildings</i> , 2013 , 57, 361-372	7	82
114	Neural network and polynomial approximated thermal comfort models for HVAC systems. <i>Building and Environment</i> , 2013 , 59, 107-115	6.5	55
113	Towards Energy Efficiency: Forecasting Indoor Temperature via Multivariate Analysis. <i>Energies</i> , 2013 , 6, 4639-4659	3.1	23
112	Determining Adaptability Performance of Artificial Neural Network-Based Thermal Control Logics for Envelope Conditions in Residential Buildings. <i>Energies</i> , 2013 , 6, 3548-3570	3.1	9
111	Building Behavior Simulation by Means of Artificial Neural Network in Summer Conditions. <i>Sustainability</i> , 2014 , 6, 5339-5353	3.6	15
110	Evaluation of Artificial Neural Network-Based Temperature Control for Optimum Operation of Building Envelopes. <i>Energies</i> , 2014 , 7, 7245-7265	3.1	7
109	Modelling and optimization of residential heating system using random neural networks. 2014,		2
108	Model predictive control for energy-efficient buildings: An airport terminal building study. 2014 ,		5
107	Comparison of the Robustness of RNN, MPC and ANN Controller for Residential Heating System. 2014 ,		9
106	On-line learning of indoor temperature forecasting models towards energy efficiency. <i>Energy and Buildings</i> , 2014 , 83, 162-172	7	65
105	Preliminary performance tests on artificial neural network models for opening strategies of double skin envelopes in winter. <i>Energy and Buildings</i> , 2014 , 75, 301-311	7	19
104	Determining optimum control of double skin envelope for indoor thermal environment based on artificial neural network. <i>Energy and Buildings</i> , 2014 , 69, 175-183	7	28
103	Prediction of water evaporation rate for indoor swimming hall using neural networks. <i>Energy and Buildings</i> , 2014 , 81, 268-280	7	8
102	Optimisation of energy management in commercial buildings with weather forecasting inputs: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 39, 587-603	16.2	96
101	Application of control logic for optimum indoor thermal environment in buildings with double skin envelope systems. <i>Energy and Buildings</i> , 2014 , 85, 59-71	7	12
100	Development of surrogate models using artificial neural network for building shell energy labelling. 2014 , 69, 457-466		54

99	Neural Network based HVAC Predictive Control. 2014, 47, 3617-3622		5
98	Prediction Performance of an Artificial Neural Network Model for the Amount of Cooling Energy Consumption in Hotel Rooms. <i>Energies</i> , 2015 , 8, 8226-8243	3.1	16
97	A hybrid model predictive control scheme for energy and cost savings in commercial buildings: Simulation and experiment. 2015 ,		5
96	Experimental testing of a random neural network smart controller using a single zone test chamber. 2015 , 4, 350-358		20
95	A hybrid numerical-neural-network model for building simulation: A case study for the simulation of unheated and uncooled indoor temperature. <i>Energy and Buildings</i> , 2015 , 86, 723-734	7	13
94	Building optimization and control algorithms implemented in existing BEMS using a web based energy management and control system. <i>Energy and Buildings</i> , 2015 , 98, 45-55	7	46
93	A new model predictive control scheme for energy and cost savings in commercial buildings: An airport terminal building case study. <i>Building and Environment</i> , 2015 , 89, 203-216	6.5	81
92	POD approach to determine in real-time the temperature distribution in a cavity. <i>Building and Environment</i> , 2015 , 93, 34-49	6.5	16
91	Online learning algorithm for time series forecasting suitable for low cost wireless sensor networks nodes. 2015 , 15, 9277-304		20
90	A neural network-based multi-zone modelling approach for predictive control system design in commercial buildings. <i>Energy and Buildings</i> , 2015 , 97, 86-97	7	70
89	Simplified dynamic neural network model to predict heating load of a building using Taguchi method. <i>Energy</i> , 2016 , 115, 1672-1678	7.9	78
88	PVM-based intelligent predictive control of HVAC systems. IFAC-PapersOnLine, 2016, 49, 371-376	0.7	7
87	To predict the impact of passive architecture conditions inside a building using ANN. 2016,		
86	Algorithm for optimal application of the setback moment in the heating season using an artificial neural network model. <i>Energy and Buildings</i> , 2016 , 127, 859-869	7	24
85	Influence of control logic on variation of indoor thermal environment for residential buildings. 2016 , 25, 916-933		2
84	The IMBPC HVAC system: A complete MBPC solution for existing HVAC systems. <i>Energy and Buildings</i> , 2016 , 120, 145-158	7	33
83	Methods for adaptive behaviors satisfaction assessment with energy efficient building design. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 57, 250-259	16.2	10
82	Development and validation of grey-box models for forecasting the thermal response of occupied buildings. <i>Energy and Buildings</i> , 2016 , 117, 199-207	7	78

81	Prediction of the temperature in a Chinese solar greenhouse based on LSSVM optimized by improved PSO. <i>Computers and Electronics in Agriculture</i> , 2016 , 122, 94-102	6.5	61
80	A review of thermal comfort models and indicators for indoor environments. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 79, 1353-1379	16.2	139
79	Application of fuzzy neural network on the electricity consumption forecasting. 2017,		
78	Comparison of linear regression and artificial neural networks models to predict heating and cooling energy demand, energy consumption and CO 2 emissions. <i>Energy</i> , 2017 , 118, 24-36	7.9	81
77	A self-learning algorithm for coordinated control of rooftop units in small- and medium-sized commercial buildings. <i>Applied Energy</i> , 2017 , 205, 1034-1049	10.7	17
76	Advanced Economic Control of Electricity-Based Space Heating Systems in Domestic Coalitions with Shared Intermittent Energy Resources. 2017 , 8, 1-27		1
75	. 2017 , 4, 393-403		55
74	Prediction of Indoor Temperature in an Institutional Building. 2017 , 142, 1860-1866		14
73	Scalable modeling of thermal dynamics in buildings using fuzzy rules for regression. 2017,		2
72	On PI-Controller neural tuner implementation in programmable logic controller to improve rejection of disturbances effecting heating plant. 2017 ,		O
71	Applied machine learning in greenhouse simulation; new application and analysis. 2018, 5, 253-268		30
70	Artificial neural networks for the performance prediction of heat pump hot water heaters. 2018 , 37, 173-192		20
69	Energy, economic and environmental performance simulation of a hybrid renewable microgeneration system with neural network predictive control. 2018 , 57, 455-473		21
68	Modeling techniques used in building HVAC control systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 83, 64-84	16.2	123
67	Numerical prediction of steady state temperature based on transient measurements. 2018 , 240, 05024		1
66	A New Convex Hull, Sliding Window Based Online Adaptation Method. <i>IFAC-PapersOnLine</i> , 2018 , 51, 21	1 02/ 16	
65	The IMBPC HVAC system: Wireless Sensors and IoT Platform. IFAC-PapersOnLine, 2018, 51, 1-8	0.7	6
64	A Dynamic Model for Indoor Temperature Prediction in Buildings. <i>Energies</i> , 2018 , 11, 1477	3.1	15

63	Real-time prediction model for indoor temperature in a commercial building. <i>Applied Energy</i> , 2018 , 231, 29-53	10.7	45
62	A flexible control strategy for energy and comfort aware HVAC in large buildings. <i>Building and Environment</i> , 2018 , 145, 330-342	6.5	21
61	Development of control algorithms for optimal thermal environment of double skin envelope buildings in summer. <i>Building and Environment</i> , 2018 , 144, 657-672	6.5	4
60	Wireless Sensors and IoT Platform for Intelligent HVAC Control. 2018, 8, 370		14
59	Smart Building: Use of the Artificial Neural Network Approach for Indoor Temperature Forecasting. <i>Energies</i> , 2018 , 11, 395	3.1	39
58	Development of a Data-Driven Predictive Model of Supply Air Temperature in an Air-Handling Unit for Conserving Energy. <i>Energies</i> , 2018 , 11, 407	3.1	8
57	A neural network clock discipline algorithm for the RBIS clock synchronization protocol. 2018,		5
56	Reconstruction of the indoor temperature dataset of a house using data driven models for performance evaluation. <i>Building and Environment</i> , 2018 , 138, 250-261	6.5	13
55	ANN-Based Outlier Detection for Wireless Sensor Networks in Smart Buildings. <i>IEEE Access</i> , 2019 , 7, 9,	59 <i>§.Ђ</i> -95	5997
54	Prediction of Indoor Air Temperature Using Weather Data and Simple Building Descriptors. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	5
53	A Non-Linear Autoregressive Model for Indoor Air-Temperature Predictions in Smart Buildings. 2019 , 8, 979		11
52	Data-driven modeling of building thermal dynamics: Methodology and state of the art. <i>Energy and Buildings</i> , 2019 , 203, 109405	7	16
51	Thermal comfort prediction in a building category: Artificial neural network generation from calibrated models for a social housing stock in southern Europe. <i>Applied Thermal Engineering</i> , 2019 , 150, 492-505	5.8	36
50	Temperature-preference learning with neural networks for occupant-centric building indoor climate controls. <i>Building and Environment</i> , 2019 , 154, 296-308	6.5	35
49	Data-driven model predictive control for building climate control: Three case studies on different buildings. <i>Building and Environment</i> , 2019 , 160, 106204	6.5	20
48	Modeling IoT Equipment With Graph Neural Networks. <i>IEEE Access</i> , 2019 , 7, 32754-32764	3.5	13
47	Feature Selection and Evolutionary Rule Learning for Big Data in Smart Building Energy Management. <i>Cognitive Computation</i> , 2019 , 11, 418-433	4.4	8
46	Economic model predictive control for demand flexibility of a residential building. <i>Energy</i> , 2019 , 176, 365-379	7.9	37

45	Economically Optimal Control of a Cold Room Using an Artificial Neural Network and Dynamic Programming. <i>IFAC-PapersOnLine</i> , 2019 , 52, 2002-2007	0.7	
44	Learning-based Model Predictive Control for Smart Building Thermal Management. 2019,		2
43	Trends in Mathematics and Computational Intelligence. Studies in Computational Intelligence, 2019,	0.8	
42	Nonlinear autoregressive and random forest approaches to forecasting electricity load for utility energy management systems. <i>Sustainable Cities and Society</i> , 2019 , 45, 460-473	10.1	62
41	All you need to know about model predictive control for buildings. <i>Annual Reviews in Control</i> , 2020 , 50, 190-232	10.3	104
40	Economic optimisation of cold production: a matheuristic with artificial neural network approach. <i>International Journal of Production Research</i> , 2020 , 1-22	7.8	O
39	Air Temperature Forecasting Using Machine Learning Techniques: A Review. <i>Energies</i> , 2020 , 13, 4215	3.1	32
38	Self-Learning Algorithm to Predict Indoor Temperature and Cooling Demand from Smart WiFi Thermostat in a Residential Building. <i>Sustainability</i> , 2020 , 12, 7110	3.6	6
37	An encoderdecoder LSTM-based EMPC framework applied to a building HVAC system. <i>Chemical Engineering Research and Design</i> , 2020 , 160, 508-520	5.5	14
36	Application of neural network in prediction of temperature: a review. <i>Neural Computing and Applications</i> , 2021 , 33, 11487-11498	4.8	O
35	Forecasting underheating in dwellings to detect excess winter mortality risks using time series models. <i>Applied Energy</i> , 2021 , 286, 116517	10.7	2
34	Data pre-processing and optimization techniques for stochastic and deterministic low-order grey-box models of residential buildings. <i>Energy and Buildings</i> , 2021 , 236, 110775	7	6
33	Identifying grey-box thermal models with Bayesian neural networks. <i>Energy and Buildings</i> , 2021 , 238, 110836	7	3
32	Physics-constrained deep learning of multi-zone building thermal dynamics. <i>Energy and Buildings</i> , 2021 , 243, 110992	7	3
31	Data-driven modelling techniques for earth-air heat exchangers to reduce energy consumption in buildings: a review. <i>Environmental Chemistry Letters</i> , 1	13.3	0
30	Machine learning for improvement of thermal conditions inside a hybrid ventilated animal building. <i>Computers and Electronics in Agriculture</i> , 2021 , 187, 106259	6.5	2
29	Use of Machine Learning Methods for Indoor Temperature Forecasting. Future Internet, 2021, 13, 242	3.3	1
28	Data-driven district energy management with surrogate models and deep reinforcement learning. <i>Applied Energy</i> , 2021 , 304, 117642	10.7	9

27	Comfort in Buildings. Advances in Industrial Control, 2014, 39-78	0.3	1
26	Impact of the controller model complexity on model predictive control performance for buildings. <i>Energy and Buildings</i> , 2017 , 152, 739-751	7	33
25	Spatio-temporal Model Based on Back Propagation Neural Network for Regional Data in GIS. <i>Lecture Notes in Computer Science</i> , 2009 , 366-374	0.9	
24	Semi Batch Learning with Store Management Using Enhanced Conjugate Gradient. <i>Lecture Notes in Electrical Engineering</i> , 2012 , 61-67	0.2	
23	Forecasting Techniques for Energy Optimization in Buildings. 2015, 967-977		
22	A Study on Improved Heating Performance of an Apartment Housing Unit. <i>Korean Journal of Air-Conditioning and Refrigeration Engineering</i> , 2016 , 28, 69-74	0.5	
21	Introduction. SpringerBriefs in Energy, 2018 , 1-12	0.3	
20	A New Convex Hull, Sliding Window Based Online Adaptation Method for Fixed-Structure Radial Basis Function Neural Networks. <i>Studies in Computational Intelligence</i> , 2019 , 103-112	0.8	1
19	WSN-Based Prediction Model of Microclimate in a City Urbanized Areas Based on Extreme Learning and Kalman Filter. <i>Studies in Computational Intelligence</i> , 2021 , 15-26	0.8	
18	MOGA Design of Neural Network Predictors of Inside Temperature in Public Buildings. <i>Studies in Computational Intelligence</i> , 2009 , 35-61	0.8	1
17	Data-driven control of room temperature and bidirectional EV charging using deep reinforcement learning: Simulations and experiments. <i>Applied Energy</i> , 2021 , 307, 118127	10.7	3
16	Research on Best Solution for Improving Indoor Air Quality and Reducing Energy Consumption in a High-Risk Radon Dwelling from Romania. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	O
15	Forecasting: theory and practice. International Journal of Forecasting, 2022,	5.3	31
14	Influence of data pre-processing and sensor dynamics on grey-box models for space-heating: Analysis using field measurements. <i>Building and Environment</i> , 2022 , 212, 108832	6.5	1
13	Application of Machine Learning in Occupant and Indoor Environment Behavior Modeling: Sensors, Methods, and Algorithms. 2021 , 1-25		
12	Temperature Prediction Using a Neofuzzy Neuron Approach. 2022 , 2, 7-11		
11	Data-Enabled Predictive Control for Building HVAC Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME,</i> 2022 ,	1.6	
10	Associating indoor air temperature with building spatial design and occupancy features: A statistical analysis on university classrooms. <i>Building and Environment</i> , 2022 , 216, 109009	6.5	О

9	A review of optimization based tools for design and control of building energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 160, 112359	16.2	3
8	Effectiveness of neural networks and transfer learning for indoor air-temperature forecasting. <i>Automation in Construction</i> , 2022 , 140, 104314	9.6	O
7	A predictive control approach for thermal energy management in buildings. <i>Energy Reports</i> , 2022 , 8, 9127-9141	4.6	0
6	Predicting moisture condensation risk on the radiant cooling floor of an office using integration of a genetic algorithm-back-propagation neural network with sensitivity analysis. 2022 ,		1
5	Sharing is caring: An extensive analysis of parameter-based transfer learning for the prediction of building thermal dynamics. 2022 , 276, 112530		0
4	A comparison of six metamodeling techniques applied to multi building performance vectors prediction on gymnasiums under multiple climate conditions. 2023 , 332, 120481		О
3	Indoor room temperature forecasting in buildings: a literature review (2001-21).		О
2	Renovating buildings by modelling energyIIO2 emissions using particle swarm optimization and artificial neural network (case study: Iran). 1420326X2311512		O
1	An XGBoost-Based predictive control strategy for HVAC systems in providing day-ahead demand response. 2023 , 238, 110350		0