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Applying multi-objective genetic algorithms in green building design optimization

DOI: 10.1016/j.buildenv.2004.11.017

Building and Environment, 2005, 40, 1512-1525.

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**Version:** 2024-04-28

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305	Evaluation of net-zero energy residential buildings in the MENA region. <b>2016</b> , 22, 116-125	61
304	Sustainable building envelope design by considering energy cost and occupant satisfaction. <b>2016</b> , 31, 118-129	34
303	Analysis and Comparison of Energy Saving Measures Through Marginal Abatement Cost Curves. <b>2016</b> , 203-214	1
302	Parallel Computing Framework for Optimizing Environmental and Economic Performances of Housing Units. <b>2016</b> , 30, 04015026	1
301	Developing a green-building design approach by selective use of systems and techniques. <b>2016</b> , 12, 29-50	47
300	Minimizing Upgrade Cost to Achieve LEED Certification for Existing Buildings. <b>2016</b> , 142, 04015073	3
299	Optimal building envelope design based on simulated performance: History, current status and new potentials. <b>2016</b> , 117, 387-398	62
298	Sustainable material selection for construction industry [A hybrid multi criteria decision making approach. <b>2016</b> , 55, 1274-1288	130
297	The development of life-cycle costing for buildings. <b>2016</b> , 44, 319-333	76
296	Hyper multi-objective evolutionary algorithm for multi-objective optimization problems. <b>2017</b> , 21, 5883-5891	7
295	Optimization method for perforated solar screen design to improve daylighting using orthogonal arrays and climate-based daylight modelling. <b>2017</b> , 10, 144-160	15
294	An optimal model for a building retrofit with LEED standard as reference protocol. <b>2017</b> , 139, 22-30	22
293	Ecodesign tools in the construction sector: Analyzing usage inadequacies with designers' needs. <b>2017</b> , 148, 60-72	29
292	Proposing of new building scheme and composite towards global warming mitigation for Malaysia. <b>2017</b> , 10, 176-184	9

291	Invariant probabilistic sensitivity analysis for building energy models. <b>2017</b> , 10, 392-405		5
290	Do resilient and sustainable design strategies conflict in commercial buildings? A critical analysis of existing resilient building frameworks and their sustainability implications. <b>2017</b> , 146, 295-311		30
289	A review on current advances in the energy and environmental performance of buildings towards a more sustainable built environment. <b>2017</b> , 77, 845-860		119
288	A review of simulation-based urban form generation and optimization for energy-driven urban design. <i>Building and Environment</i> , <b>2017</b> , 121, 119-129	6.5	41
287	Genetic Algorithm for Building Optimization. <b>2017</b> ,		13
286	Life cycle embodied energy analysis of residential buildings: A review of literature to investigate embodied energy parameters. <b>2017</b> , 79, 390-413		133
285	Multi-objective differential evolution with performance-metric-based self-adaptive mutation operator for chemical and biochemical dynamic optimization problems. <b>2017</b> , 59, 33-44		17
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281	Estimation and projection of institutional building electricity consumption. <b>2017</b> , 143, 43-52		4
280	Sustainable Value Management for Construction Projects. <b>2017</b> ,		13
279	Multiobjective Design Optimization of Building Space Layout, Energy, and Daylighting Performance. <b>2017</b> , 31, 04017025		18
278	Identifying customer behavioral factors and price premiums of green building purchasing. <b>2017</b> , 64, 36-43		20
277	Integrated Building Envelope Design Process Combining Parametric Modelling and Multi-Objective Optimization. <b>2017</b> , 23, 138-146		4
276	Improving sustainable office building operation by using historical data and linear models to predict energy usage. <b>2017</b> , 29, 107-117		22
275	A multi-objective life cycle approach for optimal building design: A case study in Finnish context. <b>2017</b> , 143, 1021-1035		40
274	Occupant perception of green buildings: Distinguishing physical and psychological factors. <i>Building and Environment</i> , <b>2017</b> , 114, 140-147	6.5	28

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272	An integrated system of text mining technique and case-based reasoning (TM-CBR) for supporting green building design. <i>Building and Environment</i> , <b>2017</b> , 124, 388-401	6.5	48
271	A hybridised framework combining integrated methods for environmental Life Cycle Assessment and Life Cycle Costing. <b>2017</b> , 168, 846-866		65
270	Mapping the knowledge domains of Building Information Modeling (BIM): A bibliometric approach. <b>2017</b> , 84, 195-206		130
269	Occupancy Profile Variation Analyzed through Generative Modelling to Control Building Energy Behavior. <b>2017</b> , 180, 1495-1505		6
268	Visualized strategy for predicting buildings energy consumption during early design stage using parametric analysis. <b>2017</b> , 13, 127-136		29
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266	Building Information Modelling and vertical farming. <b>2017</b> , 35, 710-724		1
265	Identification of Material-related Risks in Green Buildings. <b>2017</b> , 196, 956-963		7
264	Desired points at minimum cost in the Optimize Energy Performance Credit of leed certification. <b>2017</b> , 23, 796-805		14
263	Measuring the impact of dynamic life cycle performance feedback on conceptual building design. <b>2017</b> , 164, 726-735		15
262	Sequential early-design guidance for residential single-family buildings using a probabilistic metamodel of energy consumption. <b>2017</b> , 134, 202-211		34
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260	Actionable insights with less data: guiding early building design decisions with streamlined probabilistic life cycle assessment. <b>2018</b> , 23, 1903-1915		24
259	A new method for applying choosing by advantages (CBA) multicriteria decision to a large number of design alternatives. <b>2018</b> , 167, 30-37		16
258	A Study on the Using of Game Theory in Sustainable Construction. <b>2018</b> , 11-23		2
257	Investigating relationships between cost and CO2 emissions in reinforced concrete structures using a BIM-based design optimisation approach. <b>2018</b> , 166, 330-346		30
256	Multi-objective optimization-simulation model to improve the buildings design specification in different climate zones of Iran. <b>2018</b> , 40, 394-415		11

255	Sensitivity analysis of energy performance and thermal comfort throughout building design process. <b>2018</b> , 164, 278-294	35
254	Toolbox for super-structured and super-structure free multi-disciplinary building spatial design optimisation. <b>2018</b> , 36, 86-100	15
253	Maximizing sustainability of existing buildings within limited upgrade budgets. <b>2018</b> , 45, 705-716	2
252	Construction in Nature Versus Nature of Construction. <b>2018</b> , 13-27	
251	Automated processes of estimating the heating and cooling load for building envelope design optimization. <b>2018</b> , 11, 219-233	6
250	Waste-to-energy: A review of life cycle assessment and its extension methods. <b>2018</b> , 36, 3-16	41
249	Streamlined environmental and cost life-cycle approach for building thermal retrofits: A case of residential buildings in South European climates. <b>2018</b> , 172, 2625-2635	20
248	Towards adoption of building energy simulation and optimization for passive building design: A survey and a review. <b>2018</b> , 158, 1306-1316	105
247	An integrated BIM-based framework for the optimization of the trade-off between embodied and operational energy. <b>2018</b> , 158, 1189-1205	65
246	Linking BIM and Design of Experiments to balance architectural and technical design factors for energy performance. <b>2018</b> , 86, 33-43	38
245	New residential construction building and composite post and beam structure toward global warming mitigation. <b>2018</b> , 37, 1394-1402	15
244	Sustainable Lighting Layout in Urban Areas: Maximizing Implicit Coverage and Minimizing Installation Cost. <b>2018</b> , 4,	1
243	Optimal and near-optimal indoor temperature and humidity controls for direct load control and proactive building demand response towards smart grids. <b>2018</b> , 96, 250-261	14
242	Simulation-Based Decision Support Tools in the Early Design Stages of a Green Building: A Review. <b>2018</b> , 10, 3696	23
241	Multi-Objective Optimisation of the Energy Performance of Lightweight Constructions Combining Evolutionary Algorithms and Life Cycle Cost. <b>2018</b> , 11, 1863	14
240	Are Mental Biases Responsible for the Perceived Comfort Advantage in Green Buildings?. <b>2018</b> , 8, 20	0
239	Awareness of green building design in Malaysia. <b>2018</b> ,	1
238	A simulation-based optimization method for designing energy efficient buildings. <b>2018</b> , 178, 216-227	20



237	Sustainable Infrastructure Multi-Criteria Preference Assessment of Alternatives for Early Design. <b>2018</b> , 96, 16-28		11
236	Revealing the relationships between the energy parameters of single-family buildings with the use of Self-Organizing Maps. <b>2018</b> , 178, 61-70		1
235	A review on optimization methods applied in energy-efficient building geometry and envelope design. <b>2018</b> , 92, 897-920		144
234	Integrated Design and Retrofit of Buildings. <b>2018</b> , 313-384		
233	Predicting electricity consumption in a building using an optimized back-propagation and Levenberg-Marquardt back-propagation neural network: Case study of a shopping mall in China. <b>2018</b> , 42, 176-183		64
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231	Design Optimization Considering Variable Thermal Mass, Insulation, Absorptance of Solar Radiation, and Glazing Ratio Using a Prediction Model and Genetic Algorithm. <b>2018</b> , 10, 336		20
230	Sensitivity analysis of design parameters and optimal design for zero/low energy buildings in subtropical regions. <b>2018</b> , 228, 1280-1291		65
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227	Building design-space exploration through quasi-optimization of life cycle impacts and costs. <i>Building and Environment</i> , <b>2018</b> , 144, 34-44	6.5	17
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225	A bibliometric review of green building research 2000-2016. <b>2019</b> , 62, 74-88		115
224	Comparison between two genetic algorithms minimizing carbon footprint of energy and materials in a residential building. <b>2019</b> , 12, 224-242		7
223	A review of reinforcement learning methodologies for controlling occupant comfort in buildings. <b>2019</b> , 51, 101748		51
222	Stochastic numerical approach for solving second order nonlinear singular functional differential equation. <b>2019</b> , 363, 124605		36
221	Whole building life cycle environmental impacts and costs: A sensitivity study of design and service decisions. <i>Building and Environment</i> , <b>2019</b> , 163, 106316	6.5	13
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219	Research on the Literature of Green Building Based on the Web of Science: A Scientometric Analysis in CiteSpace (2002-2018). <b>2019</b> , 11, 3716	43
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217	Mapping Knowledge in the Economic Areas of Green Building Using Scientometric Analysis. <b>2019</b> , 12, 3011	14
216	Development of an Integrated Quality Function Deployment and Utility Theory Weighting System to Improve Occupants' Satisfaction. <b>2019</b> , 25, 04019020	
215	A scientometrics study on green building: A DEA application. <b>2019</b> , 189-194	2
214	Exergy-based control strategies for the efficient operation of building energy systems. <b>2019</b> , 241, 118277	14
213	Combining context-aware design-specific data and building performance models to improve building performance predictions during design. <b>2019</b> , 107, 102917	6
212	Equation-based object-oriented modeling and simulation for data center cooling: A case study. <b>2019</b> , 186, 108-125	19
211	Developing a Methodology for Integration of Whole Life Costs into BIM Processes to Assist Design Decision Making. <b>2019</b> , 9, 114	9
210	Optimization of HVAC system energy consumption in a building using artificial neural network and multi-objective genetic algorithm. <b>2019</b> , 35, 48-57	72
209	Simulation-based evolutionary optimization for energy-efficient layout plan design of high-rise residential buildings. <b>2019</b> , 231, 1375-1388	29
208	Unsteady-state exergy analysis for heat conduction of homogeneous solids under periodic boundary conditions. <b>2019</b> , 139, 773-788	1
207	Energy and environmental performance of the office building facade scenarios. <b>2019</b> , 183, 437-447	26
206	Meta-models for building energy loads at an arbitrary location. <b>2019</b> , 25, 100823	6
205	A learning automated 3D architecture synthesis model: demonstrating a computer governed design of minimal apartment units based on human perceptual and physical needs. <b>2019</b> , 62, 301-312	1
204	A review of renewable energy assessment methods in green building and green neighborhood rating systems. <b>2019</b> , 195, 68-81	36
203	Developing surrogate ANN for selecting near-optimal building energy renovation methods considering energy consumption, LCC and LCA. <b>2019</b> , 25, 100790	45
202	Optimal Decision-Making of Renewable Energy Systems in Buildings in the Early Design Stage. <b>2019</b> , 11, 1471	2

201	Performance-based Generative Architecture Design: A Review on Design Problem Formulation and Software Utilization. <b>2019</b> , 22, 55-76	6
200	Evidence-based ranking of green building design factors according to leading energy modelling tools. <b>2019</b> , 47, 101491	12
199	Optimal power management for nanogrids based on technical information of electric appliances. <b>2019</b> , 191, 174-186	13
198	Definition and Design of Zero Energy Buildings. <b>2019</b> ,	1
197	Optimal control strategies for hollow core ventilated slab systems. <b>2019</b> , 24, 100762	1
196	An early-stage design optimization for office buildings facade providing high-energy performance and daylight. <b>2019</b> , 28, 1350-1367	17
195	Scientometric review of global research trends on green buildings in construction journals from 1992 to 2018. <b>2019</b> , 190, 69-85	88
194	A multi-objective optimization model for determining the building design and occupant behaviors based on energy, economic, and environmental performance. <b>2019</b> , 174, 823-834	34
193	Exploring the feasibility of blockchain technology as an infrastructure for improving built asset sustainability. <b>2019</b> , 10, 184-199	22
192	. <b>2019</b> , 1-1	1
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190	A decision-support methodology for the energy design of sustainable buildings in the early stages. <b>2019</b> , 6, 1684173	
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188	BIM-integrated TOPSIS-Fuzzy framework to optimize selection of sustainable building components. <b>2019</b> , 1-20	7
187	Methodology for Preliminary Design of Buildings Using Multi-Objective Optimization Based on Performance Simulation. <b>2019</b> , 141, 0408011-4080112	8
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184	Search for targets in a risky environment using multi-objective optimisation. <b>2019</b> , 13, 123-127	6

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182	Optimization of site selection for construction and demolition waste recycling plant using genetic algorithm. <b>2019</b> , 31, 233-245		11
181	Energy Efficiency in Building Renovation. <b>2019</b> , 675-810		0
180	A review of operating performance in green buildings: Energy use, indoor environmental quality and occupant satisfaction. <b>2019</b> , 183, 500-514		112
179	Facade Design Stages: Issues and Considerations. <b>2019</b> , 25, 04018033		3
178	Performative computational architecture using swarm and evolutionary optimisation: A review. <i>Building and Environment</i> , <b>2019</b> , 147, 356-371	6.5	36
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176	Structured Under-Specification of Life Cycle Impact Assessment Data for Building Assemblies. <b>2019</b> , 23, 319-334		11
175	Inclusion of environmental impacts in life-cycle cost analysis of bridge structures. <b>2020</b> , 5, 252-267		7
174	Optimal sizing of a wind, fuel cell, electrolyzer, battery and supercapacitor system for off-grid applications. <b>2020</b> , 45, 5512-5525		22
173	Optimization of an innovative thermal energy storage technology at low temperatures. <b>2020</b> , 14, 238-255		2
172	Design and optimization of form and facade of an office building using the genetic algorithm. <b>2020</b> , 26, 128-140		26
171	From resources to research framework for identification and prioritization of materials research for sustainable construction. <b>2020</b> , 7-8, 100009		8
170	A parametric approach for performance optimization of residential building design in Beijing. <b>2020</b> , 13, 223-235		14
169	Visualized analysis of global green buildings: Development, barriers and future directions. <b>2020</b> , 245, 118775		31
168	Collaborative optimization between passive design measures and active heating systems for building heating in Qinghai-Tibet plateau of China. <b>2020</b> , 147, 683-694		11
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166	A systematic review of genetic algorithm-based multi-objective optimisation for building retrofitting strategies towards energy efficiency. <b>2020</b> , 210, 109690		37

165	Investigation on the potential of improving daylight efficiency of office buildings by curved facade optimization. <b>2020</b> , 13, 287-303		6
164	A bi-level optimization approach for sustainable development and carbon emissions reduction towards construction materials industry: a case study from China. <b>2020</b> , 53, 101828		15
163	Multi-objective optimisation framework for designing office windows: quality of view, daylight and energy efficiency. <b>2020</b> , 261, 114356		53
162	Study on Multi-Objective Optimization-Based Climate Responsive Design of Residential Building. <b>2020</b> , 13, 238		3
161	Multi-objective approach to the optimization of shape and envelope in building energy design. <b>2020</b> , 280, 115984		40
160	Triple bottom line sustainability assessment of window-to-wall ratio in US office buildings. <i>Building and Environment</i> , <b>2020</b> , 182, 107057	6.5	22
159	Unsteady-state exergetic performance comparison of externally and internally insulated building envelopes. <b>2020</b> , 163, 120414		3
158	Environmental and financial assessment of facade renovations designed for change: developing optimal scenarios for apartment buildings in Flanders. <i>Building and Environment</i> , <b>2020</b> , 183, 107178	6.5	4
157	A performance-based design validation study on EnergyPlus for daylighting analysis. <i>Building and Environment</i> , <b>2020</b> , 183, 107088	6.5	10
156	Identification and selection of building facade's smart materials according to sustainable development goals. <b>2020</b> , 26, e00213		9
155	Developing a two-criteria framework to rank thermal insulation materials in nearly zero energy buildings using multi-objective optimization approach. <b>2020</b> , 276, 122592		21
154	Optimization test of a rule-based swarm intelligence simulation for the conceptual design process. <b>2020</b> , 34, 477-491		1
153	Multi-Criteria Ranking of Green Materials According to the Goals of Sustainable Development. <b>2020</b> , 12, 9482		4
152	Optimising Window Design on Residential Building Facades by Considering Heat Transfer and Natural Lighting in Nontropical Regions of Australia. <b>2020</b> , 10, 206		4
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150	Developing a heating and cooling demand prediction model for residential buildings in the cold climate zone of China. <b>2020</b> , 588, 032057		
149	BIM for Healthy Buildings: An Integrated Approach of Architectural Design based on IAQ Prediction. <b>2020</b> , 12, 10417		5
148	Influence of changes in design parameters on sustainable design model of flat plate floor systems in residential or mixed-use buildings. <b>2020</b> , 63, 102498		1

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146	Exergetic Life Cycle Assessment: A Review. <b>2020</b> , 13, 2684		4
145	Multi-objective Building Design Optimization under Operational Uncertainties Using the NSGA II Algorithm. <b>2020</b> , 10, 88		10
144	Multi-objective optimization of selected non-traditional machining processes using NSGA-II. <b>2020</b> , 421-438		2
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139	Reinforced concrete structural design optimization: A critical review. <b>2020</b> , 260, 120623		26
138	Power Management by LSTM Network for Nanogrids. <b>2020</b> , 8, 24081-24097		2
137	A real industrial building: Modeling, calibration and Pareto optimization of energy retrofit. <b>2020</b> , 29, 101186		29
136	Many-Objective Optimization Design of a Public Building for Energy, Daylighting and Cost Performance Improvement. <b>2020</b> , 10, 2435		10
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134	The interoperability of exergy and Life Cycle Thinking in assessing manufacturing sustainability: A review of hybrid approaches. <b>2021</b> , 286, 124932		7
133	Prioritization of passive measures for energy optimization designing of sustainable hospitals and health centres. <b>2021</b> , 35, 101992		8
132	Sustainable green materials for new construction. <b>2021</b> , 37, 3505-3508		0
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130	Advanced applications of green materials in construction applications. <b>2021</b> , 223-238		

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125	A decision support tool for building design: An integrated generative design, optimisation and life cycle performance approach. <b>2021</b> , 19, 401-430	5
124	A CFD-Based Optimization of Building Configuration for Urban Ventilation Potential. <b>2021</b> , 14, 1447	0
123	Optimizing Multi-Family Building Massing for Affordability and Envelope Performance: An Investigation of the Trade-Offs Implicit in Low Rise Residential Buildings. <b>2021</b> , 11, 99	1
122	Embedding energy optimization in organizations: A case study of a Swiss decentralized renewable energy system. <b>2021</b> , 235, 110710	3
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120	Solving a novel designed second order nonlinear LaneEmden delay differential model using the heuristic techniques. <b>2021</b> , 102, 107105	21
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117	How the pandemic has affected Turkish housing affordability: why the housing running cost is so important. <b>2021</b> , 8,	0
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115	Development of a Priority Weights-Based Green Building Rating Model. <b>2021</b> , 27, 04021008	7
114	Parametric Design and Comfort Optimization of Dynamic Shading Structures. <b>2021</b> , 13, 7670	1
113	Crashworthiness analysis and optimization design of TPMS-filled structure. 1-18	1
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104	BIM Integrated LCA for Promoting Circular Economy towards Sustainable Construction: An Analytical Review. <b>2021</b> , 13, 1310		11
103	Role of Building Design in Sustainable Green Development: A Review. <b>2021</b> , 55-74		
102	Cost considerations of green buildings. <b>2021</b> , 45-57		1
101	Council Building Management Practices, Case Studies and Road Ahead. <b>2012</b> , 165-179		5
100	A Model for Sustainable Site Layout Design of Social Housing with Pareto Genetic Algorithm: SSPM. <b>2015</b> , 113-133		1
99	Optimized controls for ventilated wall cavities with spray evaporative cooling systems. <b>2017</b> , 154, 356-372		4
98	Applying the Gaussian Mixture Model to Generate Large Synthetic Data from a Small Data Set. <b>2020</b> ,		3
97	Dynamic life cycle carbon and energy analysis for cross-laminated timber in the Southeastern United States. <b>2020</b> , 15, 124036		8
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