

Jui-Sheng Chou

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137
papers

4,438
citations

39
h-index

62
g-index

150
ext. papers

5,641
ext. citations

6.3
avg, IF

6.67
L-index

#	Paper	IF	Citations
137	Modeling heating and cooling loads by artificial intelligence for energy-efficient building design. <i>Energy and Buildings</i> , 2014 , 82, 437-446	7	217
136	Optimizing the Prediction Accuracy of Concrete Compressive Strength Based on a Comparison of Data-Mining Techniques. <i>Journal of Computing in Civil Engineering</i> , 2011 , 25, 242-253	5	172
135	Cross-country comparisons of key drivers, critical success factors and risk allocation for public-private partnership projects. <i>International Journal of Project Management</i> , 2015 , 33, 1136-1150	7.6	160
134	Machine learning in concrete strength simulations: Multi-nation data analytics. <i>Construction and Building Materials</i> , 2014 , 73, 771-780	6.7	147
133	A modified firefly algorithm-artificial neural network expert system for predicting compressive and tensile strength of high-performance concrete. <i>Construction and Building Materials</i> , 2018 , 180, 320-333	6.7	136
132	Toward an understanding of construction professionals' acceptance of mobile computing devices in South Korea: An extension of the technology acceptance model. <i>Automation in Construction</i> , 2012 , 28, 82-90	9.6	121
131	Enhanced artificial intelligence for ensemble approach to predicting high performance concrete compressive strength. <i>Construction and Building Materials</i> , 2013 , 49, 554-563	6.7	118
130	Failure analysis and risk management of a collapsed large wind turbine tower. <i>Engineering Failure Analysis</i> , 2011 , 18, 295-313	3.2	111
129	Failure analysis of wind turbine blade under critical wind loads. <i>Engineering Failure Analysis</i> , 2013 , 27, 99-118	3.2	106
128	A structural equation analysis of the QSL relationship with passenger riding experience on high speed rail: An empirical study of Taiwan and Korea. <i>Expert Systems With Applications</i> , 2009 , 36, 6945-6955	7.8	97
127	Critical factors and risk allocation for PPP policy: Comparison between HSR and general infrastructure projects. <i>Transport Policy</i> , 2012 , 22, 36-48	5.7	96
126	Smart Artificial Firefly Colony Algorithm-Based Support Vector Regression for Enhanced Forecasting in Civil Engineering. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2015 , 30, 715-732	8.4	86
125	BIM integrated smart monitoring technique for building fire prevention and disaster relief. <i>Automation in Construction</i> , 2017 , 84, 14-30	9.6	83
124	Time series analytics using sliding window metaheuristic optimization-based machine learning system for identifying building energy consumption patterns. <i>Applied Energy</i> , 2016 , 177, 751-770	10.7	77
123	Real-time detection of anomalous power consumption. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 33, 400-411	16.2	77
122	Forecasting energy consumption time series using machine learning techniques based on usage patterns of residential householders. <i>Energy</i> , 2018 , 165, 709-726	7.9	77
121	Life cycle carbon dioxide emissions simulation and environmental cost analysis for building construction. <i>Journal of Cleaner Production</i> , 2015 , 101, 137-147	10.3	74

120	Forward Forecast of Stock Price Using Sliding-Window Metaheuristic-Optimized Machine-Learning Regression. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 3132-3142	11.9	73
119	Implementing sustainable development in the construction industry: constructors' perspectives in the US and Korea. <i>Sustainable Development</i> , 2011 , 19, 337-347	6.7	73
118	Web-based CBR system applied to early cost budgeting for pavement maintenance project. <i>Expert Systems With Applications</i> , 2009 , 36, 2947-2960	7.8	73
117	A novel metaheuristic optimizer inspired by behavior of jellyfish in ocean. <i>Applied Mathematics and Computation</i> , 2021 , 389, 125535	2.7	72
116	High-performance Concrete Compressive Strength Prediction using Time-Weighted Evolutionary Fuzzy Support Vector Machines Inference Model. <i>Automation in Construction</i> , 2012 , 28, 106-115	9.6	66
115	Concrete compressive strength analysis using a combined classification and regression technique. <i>Automation in Construction</i> , 2012 , 24, 52-60	9.6	64
114	Cost simulation in an item-based project involving construction engineering and management. <i>International Journal of Project Management</i> , 2011 , 29, 706-717	7.6	64
113	Bidding strategy to support decision-making by integrating fuzzy AHP and regression-based simulation. <i>Automation in Construction</i> , 2013 , 35, 517-527	9.6	62
112	Smart grid data analytics framework for increasing energy savings in residential buildings. <i>Automation in Construction</i> , 2016 , 72, 247-257	9.6	57
111	Deploying effective service strategy in the operations stage of high-speed rail. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2011 , 47, 507-519	9	53
110	Smart meter adoption and deployment strategy for residential buildings in Indonesia. <i>Applied Energy</i> , 2014 , 128, 336-349	10.7	52
109	Determining quality of water in reservoir using machine learning. <i>Ecological Informatics</i> , 2018 , 44, 57-75	4.2	50
108	The use of artificial intelligence combiners for modeling steel pitting risk and corrosion rate. <i>Engineering Applications of Artificial Intelligence</i> , 2017 , 65, 471-483	7.2	49
107	Optimizing parameters of support vector machine using fast messy genetic algorithm for dispute classification. <i>Expert Systems With Applications</i> , 2014 , 41, 3955-3964	7.8	47
106	Shear Strength Prediction in Reinforced Concrete Deep Beams Using Nature-Inspired Metaheuristic Support Vector Regression. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 04015002	5	45
105	Predicting Disputes in Public-Private Partnership Projects: Classification and Ensemble Models. <i>Journal of Computing in Civil Engineering</i> , 2013 , 27, 51-60	5	44
104	Nature-inspired metaheuristic optimization in least squares support vector regression for obtaining bridge scour information. <i>Information Sciences</i> , 2017 , 399, 64-80	7.7	43
103	Optimal path planning in real time for dynamic building fire rescue operations using wireless sensors and visual guidance. <i>Automation in Construction</i> , 2019 , 99, 1-17	9.6	43

102	Probabilistic simulation for developing likelihood distribution of engineering project cost. <i>Automation in Construction</i> , 2009 , 18, 570-577	9.6	42
101	Optimized artificial intelligence models for predicting project award price. <i>Automation in Construction</i> , 2015 , 54, 106-115	9.6	40
100	Metaheuristic optimization within machine learning-based classification system for early warnings related to geotechnical problems. <i>Automation in Construction</i> , 2016 , 68, 65-80	9.6	39
99	Peak Shear Strength of Discrete Fiber-Reinforced Soils Computed by Machine Learning and Metaensemble Methods. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 04016036	5	38
98	Generalized linear model-based expert system for estimating the cost of transportation projects. <i>Expert Systems With Applications</i> , 2009 , 36, 4253-4267	7.8	37
97	Predicting the development cost of TFT-LCD manufacturing equipment with artificial intelligence models. <i>International Journal of Production Economics</i> , 2010 , 128, 339-350	9.3	35
96	Smart meter monitoring and data mining techniques for predicting refrigeration system performance. <i>Expert Systems With Applications</i> , 2014 , 41, 2144-2156	7.8	34
95	Success factors of enhanced disaster resilience in urban community. <i>Natural Hazards</i> , 2014 , 74, 661-686	3	33
94	An investigation of the applicability of sustainability and lean concepts to small construction projects. <i>KSCE Journal of Civil Engineering</i> , 2012 , 16, 699-707	1.9	33
93	Modified firefly algorithm for multidimensional optimization in structural design problems. <i>Structural and Multidisciplinary Optimization</i> , 2017 , 55, 2013-2028	3.6	32
92	Reliability-based performance simulation for optimized pavement maintenance. <i>Reliability Engineering and System Safety</i> , 2011 , 96, 1402-1410	6.3	32
91	Cross-country review of smart grid adoption in residential buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 48, 192-213	16.2	31
90	FBI inspired meta-optimization. <i>Applied Soft Computing Journal</i> , 2020 , 93, 106339	7.5	31
89	Influential constructs, mediating effects, and moderating effects on operations performance of high speed rail from passenger perspective. <i>Transport Policy</i> , 2013 , 30, 207-219	5.7	31
88	Risk-based group decision making regarding renewable energy schemes using a stochastic graphical matrix model. <i>Automation in Construction</i> , 2014 , 37, 98-109	9.6	30
87	Nature-inspired metaheuristic ensemble model for forecasting energy consumption in residential buildings. <i>Energy</i> , 2020 , 191, 116552	7.9	29
86	Visualized EVM system for assessing project performance. <i>Automation in Construction</i> , 2010 , 19, 596-607	9.6	28
85	Improving classification accuracy of project dispute resolution using hybrid artificial intelligence and support vector machine models. <i>Expert Systems With Applications</i> , 2013 , 40, 2263-2274	7.8	27

84	Ex-post evaluation of preparedness education in disaster prevention, mitigation and response. <i>International Journal of Disaster Risk Reduction</i> , 2015 , 12, 188-201	4.5	27
83	Comparison of multilabel classification models to forecast project dispute resolutions. <i>Expert Systems With Applications</i> , 2012 , 39, 10202-10211	7.8	26
82	Structural failure simulation of onshore wind turbines impacted by strong winds. <i>Engineering Structures</i> , 2018 , 162, 257-269	4.7	22
81	Project Management Knowledge of Construction Professionals: Cross-Country Study of Effects on Project Success. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013 , 139, 04013015	4.2	22
80	Multiobjective optimization for manpower assignment in consulting engineering firms. <i>Applied Soft Computing Journal</i> , 2011 , 11, 1183-1190	7.5	22
79	Hybrid computational model for predicting bridge scour depth near piers and abutments. <i>Automation in Construction</i> , 2014 , 48, 88-96	9.6	21
78	Cloud forecasting system for monitoring and alerting of energy use by home appliances. <i>Applied Energy</i> , 2019 , 249, 166-177	10.7	20
77	Emergency shelter capacity estimation by earthquake damage analysis. <i>Natural Hazards</i> , 2013 , 65, 2031-2061	3.061	20
76	Shear strength prediction of reinforced concrete beams by baseline, ensemble, and hybrid machine learning models. <i>Soft Computing</i> , 2020 , 24, 3393-3411	3.5	20
75	Nature-Inspired Metaheuristic Regression System: Programming and Implementation for Civil Engineering Applications. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 04016007	5	19
74	MULTI-OBJECTIVE SYMBIOTIC ORGANISMS OPTIMIZATION FOR MAKING TIME-COST TRADEOFFS IN REPETITIVE PROJECT SCHEDULING PROBLEM. <i>Journal of Civil Engineering and Management</i> , 2019 , 25, 322-339	3	19
73	Biological-based genetic algorithms for optimized disaster response resource allocation. <i>Computers and Industrial Engineering</i> , 2014 , 74, 52-67	6.4	18
72	Internet-based preliminary highway construction cost estimating database. <i>Automation in Construction</i> , 2007 , 17, 65-74	9.6	18
71	Classifying Influential Information to Discover Rule Sets for Project Disputes and Possible Resolutions. <i>International Journal of Project Management</i> , 2016 , 34, 1706-1716	7.6	18
70	Hybrid Machine Learning System to Forecast Electricity Consumption of Smart Grid-Based Air Conditioners. <i>IEEE Systems Journal</i> , 2019 , 13, 3120-3128	4.3	17
69	Evolutionary metaheuristic intelligence to simulate tensile loads in reinforcement for geosynthetic-reinforced soil structures. <i>Computers and Geotechnics</i> , 2015 , 66, 1-15	4.4	17
68	Early-warning application for real-time detection of energy consumption anomalies in buildings. <i>Journal of Cleaner Production</i> , 2017 , 149, 711-722	10.3	16
67	Strategic governance for modeling institutional framework of public-private partnerships. <i>Cities</i> , 2015 , 42, 204-211	5.6	16

66	Engineering strength of fiber-reinforced soil estimated by swarm intelligence optimized regression system. <i>Neural Computing and Applications</i> , 2018 , 30, 2129-2144	4.8	16
65	Quantity-Based Approach to Preliminary Cost Estimates for Highway Projects		16
64	PROJECT DISPUTE PREDICTION BY HYBRID MACHINE LEARNING TECHNIQUES. <i>Journal of Civil Engineering and Management</i> , 2013 , 19, 505-517	3	15
63	Predicting high-tech equipment fabrication cost with a novel evolutionary SVM inference model. <i>Expert Systems With Applications</i> , 2011 , 38, 8571-8579	7.8	15
62	Assessing the impact of quality determinants and user characteristics on successful enterprise resource planning project implementation. <i>Journal of Manufacturing Systems</i> , 2013 , 32, 792-800	9.1	14
61	Forecasting enterprise resource planning software effort using evolutionary support vector machine inference model. <i>International Journal of Project Management</i> , 2012 , 30, 967-977	7.6	14
60	Establishing expert system for prediction based on the project-oriented data warehouse. <i>Expert Systems With Applications</i> , 2011 , 38, 640-651	7.8	14
59	Applying AHP-based CBR to estimate pavement maintenance cost. <i>Tsinghua Science and Technology</i> , 2008 , 13, 114-120	3.4	14
58	Multistep energy consumption forecasting by metaheuristic optimization of time-series analysis and machine learning. <i>International Journal of Energy Research</i> , 2021 , 45, 4581-4612	4.5	14
57	Collapse mechanism and risk management of wind turbine tower in strong wind. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019 , 193, 103962	3.7	13
56	Multiobjective optimization inspired by behavior of jellyfish for solving structural design problems. <i>Chaos, Solitons and Fractals</i> , 2020 , 135, 109738	9.3	13
55	Hybrid decision-making method for assessing interdependency and priority of critical infrastructure. <i>International Journal of Disaster Risk Reduction</i> , 2019 , 39, 101134	4.5	12
54	Reliability-based decision making for selection of ready-mix concrete supply using stochastic superiority and inferiority ranking method. <i>Reliability Engineering and System Safety</i> , 2015 , 137, 29-39	6.3	12
53	Geogrid-Inspired Nanostructure to Reinforce a CuxZnySnzS Nanowall Electrode for High-Stability Electrochemical Energy Conversion Devices. <i>Advanced Energy Materials</i> , 2017 , 7, 1602210	21.8	11
52	PROACTIVE MEASURES OF GOVERNMENTAL DEBT GUARANTEES TO FACILITATE PUBLIC-PRIVATE PARTNERSHIPS PROJECT. <i>Journal of Civil Engineering and Management</i> , 2014 , 20, 548-560	3	11
51	Elucidating how service quality constructs influence resident satisfaction with condominium management. <i>Expert Systems With Applications</i> , 2011 , 38, 5755-5763	7.8	11
50	Sliding-window metaheuristic optimization-based forecast system for foreign exchange analysis. <i>Soft Computing</i> , 2019 , 23, 3545-3561	3.5	10
49	Aseismic ability estimation of school building using predictive data mining models. <i>Expert Systems With Applications</i> , 2011 , 38, 10252-10263	7.8	10

48	. <i>IEEE Access</i> , 2020 , 8, 14798-14808	3.5	10
47	Big data analytics and cloud computing for sustainable building energy efficiency 2016 , 397-412		10
46	Pricing policy of floating ticket fare for riding high speed rail based on time-space compression. <i>Transport Policy</i> , 2018 , 69, 179-192	5.7	9
45	Identification and assessment of heavy rainfall-induced disaster potentials in Taipei City. <i>Natural Hazards</i> , 2013 , 66, 167-190	3	8
44	Preliminary cost estimates for thin-film transistor liquid-crystal display inspection and repair equipment: A hybrid hierarchical approach. <i>Computers and Industrial Engineering</i> , 2012 , 62, 661-669	6.4	8
43	Preliminary Cost Estimates Using Probabilistic Simulation for Highway Bridge Replacement Projects 2005 , 1		8
42	Critical Process and Factors for Ex-Post Evaluation of Public-Private Partnership Infrastructure Projects in Indonesia. <i>Journal of Management in Engineering - ASCE</i> , 2016 , 32, 05016011	5.3	8
41	Structural analysis of the relationships between implementing tasks and ex-post effectiveness for disaster mitigation practice in Taipei City. <i>Sustainable Cities and Society</i> , 2017 , 34, 1-11	10.1	7
40	Probabilistic multiobjective optimization of sustainable engineering design. <i>KSCE Journal of Civil Engineering</i> , 2014 , 18, 853-864	1.9	7
39	Enhancement of condominium management based on the effect of quality attributes on satisfaction improvement. <i>Expert Systems With Applications</i> , 2012 , 39, 5418-5425	7.8	7
38	Automated Sensing System for Real-Time Recognition of Trucks in River Dredging Areas Using Computer Vision and Convolutional Deep Learning. <i>Sensors</i> , 2021 , 21,	3.8	7
37	Longitudinal assessment of high-speed rail service delivery, satisfaction and operations: A study of Taiwan and Korea systems. <i>KSCE Journal of Civil Engineering</i> , 2017 , 21, 2413-2428	1.9	6
36	Evolutionary optimization of model specification searches between project management knowledge and construction engineering performance. <i>Expert Systems With Applications</i> , 2013 , 40, 4414-4426	7.8	6
35	Quantity-Based Approach to Preliminary Cost Estimates for Highway Projects. <i>Transportation Research Record</i> , 2006 , 1946, 22-30	1.7	6
34	Metaheuristics-optimized ensemble system for predicting mechanical strength of reinforced concrete materials. <i>Structural Control and Health Monitoring</i> , 2021 , 28, e2706	4.5	6
33	Nature-inspired metaheuristic multivariate adaptive regression splines for predicting refrigeration system performance. <i>Soft Computing</i> , 2017 , 21, 477-489	3.5	5
32	Integrating the geographic information system and predictive data mining techniques to model effects of compound disasters in Taipei. <i>Natural Hazards</i> , 2014 , 70, 1385-1415	3	5
31	Evolutionary bi-level model for optimizing ticket fares and operations profit of Taiwan high-speed rail. <i>Research in Transportation Business and Management</i> , 2020 , 37, 100548	2.8	5

30	Imaging time-series with features to enable visual recognition of regional energy consumption by bio-inspired optimization of deep learning. <i>Energy</i> , 2021 , 224, 120100	7.9	5
29	Optimized multi-output machine learning system for engineering informatics in assessing natural hazards. <i>Natural Hazards</i> , 2020 , 101, 727-754	3	4
28	Estimating software project effort for manufacturing firms. <i>Computers in Industry</i> , 2013 , 64, 732-740	11.6	4
27	Identifying critical project management techniques and skills for construction professionals to achieving project success 2014 ,		4
26	Generalized Regression Neural Nets in Estimating the High-Tech Equipment Project Cost 2010 ,		4
25	Optimizing non-unit repetitive project resource and scheduling by evolutionary algorithms. <i>Operational Research</i> , 2020 , 1	1.6	4
24	Bio-inspired optimization of weighted-feature machine learning for strength property prediction of fiber-reinforced soil. <i>Expert Systems With Applications</i> , 2021 , 180, 115042	7.8	4
23	Data pre-processing by genetic algorithms for bankruptcy prediction 2011 ,		3
22	Multiobjective forensic-based investigation algorithm for solving structural design problems. <i>Automation in Construction</i> , 2022 , 134, 104084	9.6	3
21	Development of BIM-Based Real-time Evacuation and Rescue System for Complex Buildings 2016 ,		3
20	Integrating a novel multiple-objective FBI with BIM to determine tradeoff among resources in project scheduling. <i>Knowledge-Based Systems</i> , 2021 , 107640	7.3	3
19	Predicting Microbial Species in a River Based on Physicochemical Properties by Bio-Inspired Metaheuristic Optimized Machine Learning. <i>Sustainability</i> , 2019 , 11, 6889	3.6	3
18	Examining the Relationships between Stationary Occupancy and Building Energy Loads in US Educational Buildings—Case Study. <i>Sustainability</i> , 2020 , 12, 893	3.6	2
17	Erratum for Shear Strength Prediction in Reinforced Concrete Deep Beams Using Nature-Inspired Metaheuristic Support Vector Regression by Jui-Sheng Chou, Ngoc-Tri Ngo, and Anh-Duc Pham. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 08215001	5	2
16	Predicting the Production Rates of Foundation Construction Using Factor and Regression analysis 2005 , 1		2
15	Automated prediction system of household energy consumption in cities using web crawler and optimized artificial intelligence. <i>International Journal of Energy Research</i> ,	4.5	2
14	Identifying critical risk factors and responses of river dredging projects for knowledge management within organisation. <i>Journal of Flood Risk Management</i> , 2021 , 14, e12690	3.1	2
13	Risk Analysis and Management of Construction and Operations in Offshore Wind Power Project. <i>Sustainability</i> , 2021 , 13, 7473	3.6	2

12	Comparison of machine learning models to provide preliminary forecasts of real estate prices. <i>Journal of Housing and the Built Environment</i> ,1	2	2
11	Closure to Bhear Strength Prediction in Reinforced Concrete Deep Beams Using Nature-Inspired Metaheuristic Support Vector Regression By Jui-Sheng Chou, Ngoc-Tri Ngo, and Anh-Duc Pham. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 07015002	5	1
10	Probabilistic sustainable design using multiobjective optimization model 2011 ,		1
9	A Web-based Framework of Project Performance and Control System 2008 ,		1
8	Identifying Factors for Statistical Models to Measure Highway Project Disruptions 2005 , 1		1
7	Solving Regression Problems with Intelligent Machine Learner for Engineering Informatics. <i>Mathematics</i> , 2021 , 9, 686	2.3	1
6	Metaheuristic Optimized Multi-Level Classification Learning System for Engineering Management. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5533	2.6	1
5	Reengineered Governance Process for Assessing Core Public Infrastructure Projects. <i>Sustainability</i> , 2021 , 13, 9669	3.6	1
4	Risk-Informed Prediction of Dredging Project Duration Using Stochastic Machine Learning. <i>Water (Switzerland)</i> , 2020 , 12, 1643	3	0
3	Scour depth prediction at bridge piers using metaheuristics-optimized stacking system. <i>Automation in Construction</i> , 2022 , 140, 104297	9.6	0
2	Applying Smart Meter and Data Mining Techniques to Predict Refrigeration System Performance. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 249-257	0.4	
1	Cloud evolutionary computation system for advanced engineering analytics. <i>Engineering With Computers</i> ,1	4.5	