

Jui-Sheng Chou

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6402135/publications.pdf>

Version: 2024-02-01

145
papers

6,881
citations

57631

44
h-index

69108

77
g-index

151
all docs

151
docs citations

151
times ranked

5441
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling heating and cooling loads by artificial intelligence for energy-efficient building design. <i>Energy and Buildings</i> , 2014, 82, 437-446.	3.1	311
2	Machine learning in concrete strength simulations: Multi-nation data analytics. <i>Construction and Building Materials</i> , 2014, 73, 771-780.	3.2	275
3	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.	2.5	261
4	A novel metaheuristic optimizer inspired by behavior of jellyfish in ocean. <i>Applied Mathematics and Computation</i> , 2021, 389, 125535.	1.4	251
5	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.	3.2	247
6	Enhanced artificial intelligence for ensemble approach to predicting high performance concrete compressive strength. <i>Construction and Building Materials</i> , 2013, 49, 554-563.	3.2	218
7	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.	2.7	215
8	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.	4.8	163
9	Failure analysis and risk management of a collapsed large wind turbine tower. <i>Engineering Failure Analysis</i> , 2011, 18, 295-313.	1.8	155
10	Failure analysis of wind turbine blade under critical wind loads. <i>Engineering Failure Analysis</i> , 2013, 27, 99-118.	1.8	154
11	Forecasting energy consumption time series using machine learning techniques based on usage patterns of residential householders. <i>Energy</i> , 2018, 165, 709-726.	4.5	149
12	BIM integrated smart monitoring technique for building fire prevention and disaster relief. <i>Automation in Construction</i> , 2017, 84, 14-30.	4.8	138
13	Forward Forecast of Stock Price Using Sliding-Window Metaheuristic-Optimized Machine-Learning Regression. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 3132-3142.	7.2	133
14	Critical factors and risk allocation for PPP policy: Comparison between HSR and general infrastructure projects. <i>Transport Policy</i> , 2012, 22, 36-48.	3.4	126
15	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.	4.4	121
16	Real-time detection of anomalous power consumption. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 33, 400-411.	8.2	116
17	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.	4.8	111
18	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.	5.1	107

#	ARTICLE	IF	CITATIONS
19	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.	6.3	103
20	Life cycle carbon dioxide emissions simulation and environmental cost analysis for building construction. <i>Journal of Cleaner Production</i> , 2015, 101, 137-147.	4.6	102
21	FBI inspired meta-optimization. <i>Applied Soft Computing Journal</i> , 2020, 93, 106339.	4.1	102
22	Implementing sustainable development in the construction industry: constructors' perspectives in the US and Korea. <i>Sustainable Development</i> , 2011, 19, 337-347.	6.9	100
23	Concrete compressive strength analysis using a combined classification and regression technique. <i>Automation in Construction</i> , 2012, 24, 52-60.	4.8	100
24	Determining quality of water in reservoir using machine learning. <i>Ecological Informatics</i> , 2018, 44, 57-75.	2.3	94
25	Web-based CBR system applied to early cost budgeting for pavement maintenance project. <i>Expert Systems With Applications</i> , 2009, 36, 2947-2960.	4.4	87
26	Cost simulation in an item-based project involving construction engineering and management. <i>International Journal of Project Management</i> , 2011, 29, 706-717.	2.7	83
27	Bidding strategy to support decision-making by integrating fuzzy AHP and regression-based simulation. <i>Automation in Construction</i> , 2013, 35, 517-527.	4.8	82
28	Smart meter adoption and deployment strategy for residential buildings in Indonesia. <i>Applied Energy</i> , 2014, 128, 336-349.	5.1	79
29	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.	4.3	73
30	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.	4.8	73
31	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.	3.7	72
32	Nature-inspired metaheuristic ensemble model for forecasting energy consumption in residential buildings. <i>Energy</i> , 2020, 191, 116552.	4.5	71
33	Smart grid data analytics framework for increasing energy savings in residential buildings. <i>Automation in Construction</i> , 2016, 72, 247-257.	4.8	69
34	Predicting Disputes in Public-Private Partnership Projects: Classification and Ensemble Models. <i>Journal of Computing in Civil Engineering</i> , 2013, 27, 51-60.	2.5	68
35	Optimizing parameters of support vector machine using fast messy genetic algorithm for dispute classification. <i>Expert Systems With Applications</i> , 2014, 41, 3955-3964.	4.4	67
36	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, .	2.5	63

#	ARTICLE	IF	CITATIONS
37	Multiobjective optimization inspired by behavior of jellyfish for solving structural design problems. Chaos, Solitons and Fractals, 2020, 135, 109738.	2.5	60
38	Optimized artificial intelligence models for predicting project award price. Automation in Construction, 2015, 54, 106-115.	4.8	59
39	Metaheuristic optimization within machine learning-based classification system for early warnings related to geotechnical problems. Automation in Construction, 2016, 68, 65-80.	4.8	55
40	Modified firefly algorithm for multidimensional optimization in structural design problems. Structural and Multidisciplinary Optimization, 2017, 55, 2013-2028.	1.7	53
41	Probabilistic simulation for developing likelihood distribution of engineering project cost. Automation in Construction, 2009, 18, 570-577.	4.8	52
42	Nature-inspired metaheuristic optimization in least squares support vector regression for obtaining bridge scour information. Information Sciences, 2017, 399, 64-80.	4.0	51
43	Cross-country review of smart grid adoption in residential buildings. Renewable and Sustainable Energy Reviews, 2015, 48, 192-213.	8.2	48
44	Peak Shear Strength of Discrete Fiber-Reinforced Soils Computed by Machine Learning and Metaensemble Methods. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	48
45	Generalized linear model-based expert system for estimating the cost of transportation projects. Expert Systems With Applications, 2009, 36, 4253-4267.	4.4	46
46	Predicting the development cost of TFT-LCD manufacturing equipment with artificial intelligence models. International Journal of Production Economics, 2010, 128, 339-350.	5.1	45
47	Reliability-based performance simulation for optimized pavement maintenance. Reliability Engineering and System Safety, 2011, 96, 1402-1410.	5.1	43
48	An investigation of the applicability of sustainability and lean concepts to small construction projects. KSCE Journal of Civil Engineering, 2012, 16, 699-707.	0.9	42
49	Success factors of enhanced disaster resilience in urban community. Natural Hazards, 2014, 74, 661-686.	1.6	42
50	Smart meter monitoring and data mining techniques for predicting refrigeration system performance. Expert Systems With Applications, 2014, 41, 2144-2156.	4.4	41
51	Improving classification accuracy of project dispute resolution using hybrid artificial intelligence and support vector machine models. Expert Systems With Applications, 2013, 40, 2263-2274.	4.4	39
52	Ex-post evaluation of preparedness education in disaster prevention, mitigation and response. International Journal of Disaster Risk Reduction, 2015, 12, 188-201.	1.8	39
53	Structural failure simulation of onshore wind turbines impacted by strong winds. Engineering Structures, 2018, 162, 257-269.	2.6	38
54	Shear strength prediction of reinforced concrete beams by baseline, ensemble, and hybrid machine learning models. Soft Computing, 2020, 24, 3393-3411.	2.1	38

#	ARTICLE	IF	CITATIONS
55	Visualized EVM system for assessing project performance. Automation in Construction, 2010, 19, 596-607.	4.8	37
56	Influential constructs, mediating effects, and moderating effects on operations performance of high speed rail from passenger perspective. Transport Policy, 2013, 30, 207-219.	3.4	37
57	Risk-based group decision making regarding renewable energy schemes using a stochastic graphical matrix model. Automation in Construction, 2014, 37, 98-109.	4.8	37
58	Nature-Inspired Metaheuristic Regression System: Programming and Implementation for Civil Engineering Applications. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	37
59	Multistep energy consumption forecasting by metaheuristic optimization of time-series analysis and machine learning. International Journal of Energy Research, 2021, 45, 4581-4612.	2.2	36
60	Comparison of multilabel classification models to forecast project dispute resolutions. Expert Systems With Applications, 2012, 39, 10202-10211.	4.4	34
61	Cloud forecasting system for monitoring and alerting of energy use by home appliances. Applied Energy, 2019, 249, 166-177.	5.1	33
62	Project Management Knowledge of Construction Professionals: Cross-Country Study of Effects on Project Success. Journal of Construction Engineering and Management - ASCE, 2013, 139, .	2.0	32
63	Hybrid Machine Learning System to Forecast Electricity Consumption of Smart Grid-Based Air Conditioners. IEEE Systems Journal, 2019, 13, 3120-3128.	2.9	31
64	Assessing the impact of quality determinants and user characteristics on successful enterprise resource planning project implementation. Journal of Manufacturing Systems, 2013, 32, 792-800.	7.6	26
65	Hybrid computational model for predicting bridge scour depth near piers and abutments. Automation in Construction, 2014, 48, 88-96.	4.8	26
66	Classifying Influential Information to Discover Rule Sets for Project Disputes and Possible Resolutions. International Journal of Project Management, 2016, 34, 1706-1716.	2.7	26
67	MULTI-OBJECTIVE SYMBIOTIC ORGANISMS OPTIMIZATION FOR MAKING TIME-COST TRADEOFFS IN REPETITIVE PROJECT SCHEDULING PROBLEM. Journal of Civil Engineering and Management, 2019, 25, 322-339.	1.9	26
68	Multiobjective optimization for manpower assignment in consulting engineering firms. Applied Soft Computing Journal, 2011, 11, 1183-1190.	4.1	25
69	Emergency shelter capacity estimation by earthquake damage analysis. Natural Hazards, 2013, 65, 2031-2061.	1.6	24
70	Early-warning application for real-time detection of energy consumption anomalies in buildings. Journal of Cleaner Production, 2017, 149, 711-722.	4.6	24
71	Collapse mechanism and risk management of wind turbine tower in strong wind. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 193, 103962.	1.7	24
72	Internet-based preliminary highway construction cost estimating database. Automation in Construction, 2007, 17, 65-74.	4.8	23

#	ARTICLE	IF	CITATIONS
73	PROJECT DISPUTE PREDICTION BY HYBRID MACHINE LEARNING TECHNIQUES. Journal of Civil Engineering and Management, 2013, 19, 505-517.	1.9	23
74	Quantity-Based Approach to Preliminary Cost Estimates for Highway Projects. , 0, .		23
75	Evolutionary metaheuristic intelligence to simulate tensile loads in reinforcement for geosynthetic-reinforced soil structures. Computers and Geotechnics, 2015, 66, 1-15.	2.3	22
76	Engineering strength of fiber-reinforced soil estimated by swarm intelligence optimized regression system. Neural Computing and Applications, 2018, 30, 2129-2144.	3.2	22
77	Applying AHP-based CBR to estimate pavement maintenance cost. Tsinghua Science and Technology, 2008, 13, 114-120.	4.1	21
78	Establishing expert system for prediction based on the project-oriented data warehouse. Expert Systems With Applications, 2011, 38, 640-651.	4.4	20
79	Biological-based genetic algorithms for optimized disaster response resource allocation. Computers and Industrial Engineering, 2014, 74, 52-67.	3.4	20
80	Strategic governance for modeling institutional framework of public-private partnerships. Cities, 2015, 42, 204-211.	2.7	20
81	Interval Forecasting of Financial Time Series by Accelerated Particle Swarm-Optimized Multi-Output Machine Learning System. IEEE Access, 2020, 8, 14798-14808.	2.6	20
82	Forecasting enterprise resource planning software effort using evolutionary support vector machine inference model. International Journal of Project Management, 2012, 30, 967-977.	2.7	19
83	PROACTIVE MEASURES OF GOVERNMENTAL DEBT GUARANTEES TO FACILITATE PUBLIC-PRIVATE PARTNERSHIPS PROJECT. Journal of Civil Engineering and Management, 2014, 20, 548-560.	1.9	19
84	Predicting high-tech equipment fabrication cost with a novel evolutionary SVM inference model. Expert Systems With Applications, 2011, 38, 8571-8579.	4.4	17
85	Sliding-window metaheuristic optimization-based forecast system for foreign exchange analysis. Soft Computing, 2019, 23, 3545-3561.	2.1	17
86	Integrating a novel multiple-objective FBI with BIM to determine tradeoff among resources in project scheduling. Knowledge-Based Systems, 2022, 235, 107640.	4.0	17
87	Multiobjective forensic-based investigation algorithm for solving structural design problems. Automation in Construction, 2022, 134, 104084.	4.8	17
88	Hybrid decision-making method for assessing interdependency and priority of critical infrastructure. International Journal of Disaster Risk Reduction, 2019, 39, 101134.	1.8	16
89	Automated Sensing System for Real-Time Recognition of Trucks in River Dredging Areas Using Computer Vision and Convolutional Deep Learning. Sensors, 2021, 21, 555.	2.1	16
90	Elucidating how service quality constructs influence resident satisfaction with condominium management. Expert Systems With Applications, 2011, 38, 5755-5763.	4.4	15

#	ARTICLE	IF	CITATIONS
91	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.	2.6	15
92	Pricing policy of floating ticket fare for riding high speed rail based on time-space compression. <i>Transport Policy</i> , 2018, 69, 179-192.	3.4	15
93	Aseismic ability estimation of school building using predictive data mining models. <i>Expert Systems With Applications</i> , 2011, 38, 10252-10263.	4.4	14
94	Geogridâ€inspired Nanostructure to Reinforce a Cu_x/Zn_y/Sn_z/S Nanowall Electrode for Highâ€Stability Electrochemical Energy Conversion Devices. <i>Advanced Energy Materials</i> , 2017, 7, 1602210.	10.2	14
95	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.	4.4	14
96	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.	5.1	13
97	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.	4.5	13
98	Metaheuristicsâ€optimized ensemble system for predicting mechanical strength of reinforced concrete materials. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2706.	1.9	11
99	Comparison of machine learning models to provide preliminary forecasts of real estate prices. <i>Journal of Housing and the Built Environment</i> , 2022, 37, 2079-2114.	0.9	11
100	Preliminary Cost Estimates Using Probabilistic Simulation for Highway Bridge Replacement Projects. , 2005, , 1.		10
101	Preliminary cost estimates for thin-film transistor liquidâ€crystal display inspection and repair equipment: A hybrid hierarchical approach. <i>Computers and Industrial Engineering</i> , 2012, 62, 661-669.	3.4	10
102	Big data analytics and cloud computing for sustainable building energy efficiency. , 2016, , 397-412.		10
103	Identifying deflections of reinforced concrete beams under seismic loads by bioâ€inspired optimization of deep residual learning. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	1.9	10
104	Scour depth prediction at bridge piers using metaheuristics-optimized stacking system. <i>Automation in Construction</i> , 2022, 140, 104297.	4.8	10
105	Enhancement of condominium management based on the effect of quality attributes on satisfaction improvement. <i>Expert Systems With Applications</i> , 2012, 39, 5418-5425.	4.4	9
106	Identification and assessment of heavy rainfallâ€induced disaster potentials in Taipei City. <i>Natural Hazards</i> , 2013, 66, 167-190.	1.6	9
107	Identifying critical project management techniques and skills for construction professionals to achieving project success. , 2014, , .		9
108	Quantity-Based Approach to Preliminary Cost Estimates for Highway Projects. <i>Transportation Research Record</i> , 2006, 1946, 22-30.	1.0	8

#	ARTICLE	IF	CITATIONS
109	Probabilistic multiobjective optimization of sustainable engineering design. <i>KSCE Journal of Civil Engineering</i> , 2014, 18, 853-864.	0.9	8
110	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.	5.1	8
111	Data pre-processing by genetic algorithms for bankruptcy prediction. , 2011, , .		7
112	Optimizing non-unit repetitive project resource and scheduling by evolutionary algorithms. <i>Operational Research</i> , 2022, 22, 77-103.	1.3	7
113	Solving Regression Problems with Intelligent Machine Learner for Engineering Informatics. <i>Mathematics</i> , 2021, 9, 686.	1.1	7
114	Automated prediction system of household energy consumption in cities using web crawler and optimized artificial intelligence. <i>International Journal of Energy Research</i> , 2022, 46, 319-339.	2.2	7
115	Metaheuristic Optimized Multi-Level Classification Learning System for Engineering Management. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5533.	1.3	7
116	Risk Analysis and Management of Construction and Operations in Offshore Wind Power Project. <i>Sustainability</i> , 2021, 13, 7473.	1.6	7
117	Development of BIM-Based Real-time Evacuation and Rescue System for Complex Buildings. , 2016, , .		7
118	Estimating software project effort for manufacturing firms. <i>Computers in Industry</i> , 2013, 64, 732-740.	5.7	6
119	Evolutionary optimization of model specification searches between project management knowledge and construction engineering performance. <i>Expert Systems With Applications</i> , 2013, 40, 4414-4426.	4.4	6
120	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.	1.6	6
121	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.	0.9	6
122	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.	1.6	6
123	Optimized multi-output machine learning system for engineering informatics in assessing natural hazards. <i>Natural Hazards</i> , 2020, 101, 727-754.	1.6	6
124	Nature-inspired metaheuristic multivariate adaptive regression splines for predicting refrigeration system performance. <i>Soft Computing</i> , 2017, 21, 477-489.	2.1	5
125	Predicting Microbial Species in a River Based on Physicochemical Properties by Bio-Inspired Metaheuristic Optimized Machine Learning. <i>Sustainability</i> , 2019, 11, 6889.	1.6	5
126	Generalized Regression Neural Nets in Estimating the High-Tech Equipment Project Cost. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
127	Risk-Informed Prediction of Dredging Project Duration Using Stochastic Machine Learning. <i>Water (Switzerland)</i> , 2020, 12, 1643.	1.2	4
128	Examining the Relationships between Stationary Occupancy and Building Energy Loads in US Educational Buildings—Case Study. <i>Sustainability</i> , 2020, 12, 893.	1.6	4
129	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.	1.6	4
130	Predicting the Production Rates of Foundation Construction Using Factor and Regression analysis. , 2005, , 1.		3
131	Reengineered Governance Process for Assessing Core Public Infrastructure Projects. <i>Sustainability</i> , 2021, 13, 9669.	1.6	3
132	Identifying Factors for Statistical Models to Measure Highway Project Disruptions. , 2005, , 1.		1
133	Examining Productivity of Foundation Construction. , 2006, , 300.		1
134	A Web-based Framework of Project Performance and Control System. , 2008, , .		1
135	Probabilistic sustainable design using multiobjective optimization model. , 2011, , .		1
136	Closure to “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, 07015002.	2.5	1
137	Satisfaction Index for a BOT Project: Continuous Quality Improvement in the Operations Stage. , 2009, , .		0
138	Effect of monolayer-protected Ag nanoparticles and nature of self-assembled monolayers on organic hetero-junction solar cells. , 2010, , .		0
139	Project data warehouse management with multivariate analysis. , 2010, , .		0
140	Reliability-based decision analysis for ready mixed concrete supply chain using stochastic method. , 2013, , .		0
141	Intelligent Monitoring for Efficient Use of Energy in Buildings. , 2019, , .		0
142	Cloud evolutionary computation system for advanced engineering analytics. <i>Engineering With Computers</i> , 0, , 1.	3.5	0
143	Probabilistic Performance Reliability-Cost Tradeoff for Maintenance Strategy. , 2011, , .		0
144	Stochastic Decision Making for Sustainable Energy System Selection. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
145	Probabilistic sustainable design using multiobjective optimization model. , 2011, , .		0