Baabak Ashuri

List of Publications by Year
in descending order

83 papers	1,447 citations	331259 21 h-index	360668 35 g-index
83 all docs	83 docs citations	83 times ranked	878 citing authors

#	Article	IF	Citations
1	Risk-Neutral Pricing Approach for Evaluating BOT Highway Projects with Government Minimum Revenue Guarantee Options. Journal of Construction Engineering and Management - ASCE, 2012, 138, 545-557.	2.0	132
2	A novel method for forecasting time series based on fuzzy logic and visibility graph. Advances in Data Analysis and Classification, 2017, 11, 759-783.	0.9	114
3	Time Series Analysis of ENR Construction Cost Index. Journal of Construction Engineering and Management - ASCE, 2010, 136, 1227-1237.	2.0	96
4	Forecasting <i>Engineering News-Record</i> Construction Cost Index Using Multivariate Time Series Models. Journal of Construction Engineering and Management - ASCE, 2013, 139, 1237-1243.	2.0	66
5	Discovering worst fire scenarios in subway stations: A simulation approach. Automation in Construction, 2019, 99, 183-196.	4.8	61
6	BIM log mining: Discovering social networks. Automation in Construction, 2018, 91, 31-43.	4.8	58
7	Highway Construction Cost Forecasting Using Vector Error Correction Models. Journal of Management in Engineering - ASCE, 2016, 32, .	2.6	54
8	Empirical tests for identifying leading indicators of ENR Construction Cost Index. Construction Management and Economics, 2012, 30, 917-927.	1.8	48
9	Application of Natural Language Processing and Text Mining to Identify Patterns in Construction-Defect Litigation Cases. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2019, 11, .	0.9	46
10	Valuation of energy efficient certificates in buildings. Energy and Buildings, 2018, 158, 1226-1240.	3.1	44
11	Embodied Life Cycle Assessment (LCA) comparison of residential building retrofit measures in Atlanta. Building and Environment, 2020, 171, 106644.	3.0	41
12	Prediction of Unit Price Bids of Resurfacing Highway Projects through Ensemble Machine Learning. Journal of Computing in Civil Engineering, 2018, 32, .	2.5	39
13	Fuzzy Enabled Hybrid Genetic Algorithmâ€"Particle Swarm Optimization Approach to Solve TCRO Problems in Construction Project Planning. Journal of Construction Engineering and Management - ASCE, 2012, 138, 1065-1074.	2.0	35
14	Shuffled Frog-Leaping Model for Solving Time-Cost-Resource Optimization Problems in Construction Project Planning. Journal of Computing in Civil Engineering, 2015, 29, .	2.5	35
15	Financial Valuation of Investments in International Construction Markets: Real-Options Approach for Market-Entry Decisions. Journal of Management in Engineering - ASCE, 2013, 29, 355-368.	2.6	30
16	Forecasting Construction Cost Index based on visibility graph: A network approach. Physica A: Statistical Mechanics and Its Applications, 2018, 493, 239-252.	1.2	30
17	Time-Series Analysis for Forecasting Asphalt-Cement Price. Journal of Management in Engineering - ASCE, 2017, 33, .	2.6	29
18	BIM Log Mining: Measuring Design Productivity. Journal of Computing in Civil Engineering, 2018, 32, .	2.5	28

#	ARTICLE	IF	CITATIONS
19	Predicting the Volatility of Highway Construction Cost Index Using Long Short-Term Memory. Journal of Management in Engineering - ASCE, 2020, 36, .	2.6	28
20	Investment Valuation Model for Renewable Energy Systems in Buildings. Journal of Construction Engineering and Management - ASCE, 2015, 141, .	2.0	26
21	Predicting ENR Construction Cost Index Using Machine-Learning Algorithms. International Journal of Construction Education and Research, 2017, 13, 47-63.	1.1	23
22	Timing residential photovoltaic investments in the presence of demand uncertainties. Sustainable Cities and Society, 2016, 20, 109-123.	5.1	22
23	Empirical Investigation of Temporal Association between Architecture Billings Index and Construction Spending Using Time-Series Methods. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	20
24	State of Private Financing in Development of Highway Projects in the United States. Journal of Management in Engineering - ASCE, 2015, 31, .	2.6	17
25	Forecasting Ratio of Low Bid to Owner's Estimate for Highway Construction. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	2.0	17
26	Analysis of the Variability of Submitted Unit Price Bids for Asphalt Line Items in Highway Projects. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	16
27	Text Mining of the Securities and Exchange Commission Financial Filings of Publicly Traded Construction Firms Using Deep Learning to Identify and Assess Risk. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	16
28	Challenges and Enablers for Private Sector Involvement in Delivery of Highway Public–Private Partnerships in the United States. Journal of Management in Engineering - ASCE, 2017, 33, .	2.6	15
29	Leveraging Blockchain Technology in AEC Industry during Design Development Phase. , 2019, , .		15
30	A real options framework to evaluate investments in toll road projects delivered under the two–phase development strategy. Built Environment Project and Asset Management, 2011, 1, 14-31.	0.9	14
31	Neighborhood racial composition, neighborhood wealth, and the surrounding food environment in Fulton County, GA. Applied Geography, 2018, 97, 119-127.	1.7	14
32	Price Adjustment Clauses and Submitted Bid Prices for Major Asphalt Line Items in Highway Projects. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	2.0	13
33	Embodied life cycle assessment comparison of single family residential houses considering the 1970s transition in construction industry: Atlanta case study. Building and Environment, 2018, 140, 55-67.	3.0	13
34	A cost-benefit case for RFID implementation in hospitals: adapting to industry reform. Facilities, 2015, 33, 367-388.	0.8	12
35	Is the Information Available from Historical Time Series Data on Economic, Energy, and Construction Market Variables Useful to Explain Variations in ENR Construction Cost Index?. , 2012, , .		11
36	Key Issues and Differences in Practical Components of Quality Management in Design-Build Highway Projects. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2020, 12, .	0.9	11

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37	Forecasting the Construction Expenditure Cash Flow for Transportation Design-Build Projects with a Case-Based Reasoning Model. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	2.0	11
38	Impact of COVID-19 on the Diversity of the Construction Workforce. Natural Hazards Review, 2022, 23, .	0.8	11
39	A data envelopment analysis (DEA) model for building energy benchmarking. Journal of Engineering, Design and Technology, 2019, 17, 747-768.	1.1	10
40	A Real-Options Approach to Modeling Investments in Competitive, DynamicÂ Retail Markets. , 2008, , .		7
41	VALUATION OF FLEXIBLE LEASES FOR CORPORATE TENANTS FACING UNCERTAINTY IN THEIR REQUIRED WORK SPACE. International Journal of Strategic Property Management, 2010, 14, 49-72.	0.8	7
42	A Stochastic Process to Model the Fluctuations of Asphalt Cement Price. , 2014, , .		7
43	Influence of Task Complexity in Shaping Environmental Review and Engineering Design Durations. Journal of Management in Engineering - ASCE, 2018, 34, 04018043.	2.6	7
44	Modeling and Forecasting the Price of Asphalt Cement Using Generalized Auto Regressive Conditional Heteroscedasticity. , 2016, , .		6
45	Predicting ENRâ€™S Construction Cost Index Using the Modified K Nearest Neighbors (KNN) Algorithm. , 2016, , .		6
46	Application of Dynamic Adaptive Planning and Risk-Adjusted Decision Trees to Capture the Value of Flexibility in Resilience and Transportation Planning. Transportation Research Record, 2020, 2674, 298-310.	1.0	6
47	Option Value of Contingent Finance Support in Transportation Publicâ€"Private Partnership Projects. Transportation Research Record, 2020, 2674, 555-565.	1.0	5
48	Analysis of the Variability of Project Cost and Schedule Performance in the Design-Build Environment. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	5
49	Key Challenges to Design Professional Liability in the Design-Build Environment. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2020, 12, .	0.9	5
50	Forecasting ENR Construction Cost Index: A Time Series Analysis Approach. , 2010, , .		4
51	Stochastic Optimization of Construction Projects Planning with Genetic Algorithm. , 2012, , .		4
52	A Real Options Model to Evaluate Investments in Photovoltaic (PV) Systems. , 2012, , .		4
53	Challenges and Opportunities for Expediting Environmental Analysis in Transportation Design-Build Projects. , 2014, , .		4
54	Recommended Practices for the Cost Control of Highway Project Development. , 2016, , .		4

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55	Profile Monitoring for Examining Impact of Hurricane Katrina and Rita on Highway Construction Cost. Transportation Research Record, 2018, 2672, 79-87.	1.0	4
56	A Sequential Pattern Mining Approach to Extract Information from BIM Design Log Files. , 2016, , .		4
57	Empirical Study of Effects of Price Adjustment Clauses (PACs) on Highway Construction Bid. , 2014, , .		3
58	Synthesis of Quality Assurance Practices of State DOTs for Highway Construction Projects Using Alternative Delivery. , 2018, , .		3
59	Strategies and Resources for Government Agencies to Utilize Disadvantaged Business Enterprises in Transportation Design-Build Projects. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2019, 11, 04519022.	0.9	3
60	Availability Heuristic in Construction Workforce Decision-Making amid COVID-19 Pandemic: Empirical Evidence and Mitigation Strategy. Journal of Management in Engineering - ASCE, 2022, 38, .	2.6	3
61	Automatic fault detection for Building Integrated Photovoltaic (BIPV) systems using time series methods. Built Environment Project and Asset Management, 2018, 8, 160-170.	0.9	2
62	Statistical Modeling of Number of Bidders in Highway Resurfacing and Widening Construction Projects. , 2018, , .		2
63	Proportional Cox Hazards Model to Quantify the Likelihood of Underestimation in Transportation Projects. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	2.0	2
64	Improving the Management Practices for Right-of-Way Acquisition Process. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2022, 14, 04521038.	0.9	2
65	Key Challenges in Megabridge Design–Build Project Procurement. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2022, 14, .	0.9	2
66	A Pattern-Recognition Method for Highway Construction Project Expenditure Cash Flows Using Clustering-Based K-Means Approach. , 2022, , .		2
67	Determining Contract Requirements for Quality Assurance Program in Innovative Project Delivery. , 2022, , .		2
68	Comparative Analysis of Right of Way Acquisition Processes by State DOTs. , 2022, , .		2
69	A Financial Market Entry Decision Model for International Construction Business Using Real Option Analysis and Monte Carlo Simulation. , 2010, , .		1
70	Long Term Concessions on Public-Private Partnership Projects–How to Make This Right?. , 2012, , .		1
71	Development of Fuzzy Enabled Shuffled Frog Leaping Algorithm with Activity Splitting Allowed in Construction Project Scheduling. , 2012, , .		1
72	Recommended Opportunities for the Development of Highway Public-Private Partnership Projects in the United States. , 2016, , .		1

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73	Life Cycle Energy and Carbon Analysis of Single Family Residential Buildings: Atlanta Case Study. , 2018, , .		1
74	Identifying Patterns in Design-Build Projects in Terms of Project Cost Performance. , 2019, , .		1
75	Predicting Ratio of Low Bid to Owner's Estimate Using Feedforward Neural Networks for Highway Construction. , 2022, , .		1
76	Developing a Multivariate Time-Series Model to Forecast the Level of Competition in Transportation Projects. , 2022, , .		1
77	Identifying Gaps in the Understanding of a Quality Assurance Program in Design–Build Quality Management. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2022, 14, .	0.9	1
78	Life Cycle Cost Analysis of Hybrid Chiller Plants under Dynamic Utility Prices. , 2010, , .		0
79	Methods for Assessing Longitudinal Variations of Energy Production by PV Systems. , 2013, , .		0
80	Long Term Change Pattern Analysis of Bidding Price Based on Non-Parametric Framework. , 2017, , .		0
81	Exploring Collaborative Networks in BIM Design Based on Event Logs. , 2018, , .		0
82	Analysis on the Obstacles of Implementing Small and Medium Public-Private Partnership for U.S. Infrastructure Development. , 2020, , .		0
83	Empirical Analysis of Factors Associated with Financial Loss due to Hurricane Harvey. , 2022, , .		0