

# Baabak Ashuri

## List of Publications by Year in descending order

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95  
papers

1,536  
citations

313897

21  
h-index

340881

36  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1195  
citing authors

#	ARTICLE	IF	CITATIONS
1	Developing Transportation Resilience Adaptively to Climate Change. Transportation Research Record, 2024, 2678, 835-848.	1.8	0
2	Critical Review of Public-Private Partnership Business Models for Enhancing Broadband Initiatives in the United States. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2024, 16, .	1.6	0
3	Forecasting Right-of-Way (ROW) acquisition timeline of transportation projects. Built Environment Project and Asset Management, 2024, 14, 129-146.	1.7	0
4	Optimizing Quality Control and Assurance of Design-Build Transportation Projects through Alignment of RFP Selection Criteria with Owners Expectations. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2024, 16, .	1.6	0
5	Examining the Impact of COVID-19 on Unit Bid Price of Reclaimed Asphaltic Concrete Items Regarding Georgia Highway Maintenance Project through Change Point Detection. , 2024, , .		0
6	A Critical Assessment of Material Price Adjustment Clauses for Transportation Design-Build Projects. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2024, 16, .	1.6	0
7	Application of Artificial Intelligence in Design Automation: A Two-Stage Framework for Structure Configuration and Design. Journal of Construction Engineering and Management - ASCE, 2024, 150, .	4.0	0
8	Empirical adaption of Work/Rest schedules to physiological variability in heat response. Safety Science, 2024, 177, 106574.	5.0	0
9	Forecasting Highway Maintenance Cost at the Early Stage Using Machine Learning. , 2024, , .		0
10	Common Challenges and Comprehensive Strategies for Utility Risk Management in Alternative Delivery Infrastructure Contexts. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2024, 16, .	1.6	0
11	Project Chief Engineer: An Industry Review of a New Position on Design-Build Teams for Major Transportation Projects. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2023, 15, .	1.6	2
12	Improving the Management Practices for Right-of-Way Acquisition Process. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2022, 14, .	1.6	2
13	Key Challenges in Megabridge Design-Build Project Procurement. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2022, 14, .	1.6	2
14	A Pattern-Recognition Method for Highway Construction Project Expenditure Cash Flows Using Clustering-Based K-Means Approach. , 2022, , .		2
15	Predicting Ratio of Low Bid to Owner's Estimate Using Feedforward Neural Networks for Highway Construction. , 2022, , .		1
16	Determining Contract Requirements for Quality Assurance Program in Innovative Project Delivery. , 2022, , .		2
17	Developing a Multivariate Time-Series Model to Forecast the Level of Competition in Transportation Projects. , 2022, , .		1
18	Empirical Analysis of Factors Associated with Financial Loss due to Hurricane Harvey. , 2022, , .		0

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19	Comparative Analysis of Right of Way Acquisition Processes by State DOTs. , 2022, , .		3
20	Impact of COVID-19 on the Diversity of the Construction Workforce. Natural Hazards Review, 2022, 23, .	1.6	15
21	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, .	1.6	2
22	Availability Heuristic in Construction Workforce Decision-Making amid COVID-19 Pandemic: Empirical Evidence and Mitigation Strategy. Journal of Management in Engineering - ASCE, 2022, 38, .	4.8	5
23	Forecasting Ratio of Low Bid to Owner's Estimate for Highway Construction. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	4.0	20
24	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, .	4.0	11
25	Proportional Cox Hazards Model to Quantify the Likelihood of Underestimation in Transportation Projects. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	4.0	2
26	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, .	1.6	12
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, .	4.0	20
28	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.	1.8	7
29	Option Value of Contingent Finance Support in Transportation Public-Private Partnership Projects. Transportation Research Record, 2020, 2674, 555-565.	1.8	5
30	Predicting the Volatility of Highway Construction Cost Index Using Long Short-Term Memory. Journal of Management in Engineering - ASCE, 2020, 36, .	4.8	31
31	Embodied Life Cycle Assessment (LCA) comparison of residential building retrofit measures in Atlanta. Building and Environment, 2020, 171, 106644.	7.0	44
32	Analysis of the Variability of Project Cost and Schedule Performance in the Design-Build Environment. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	4.0	6
33	Key Challenges to Design Professional Liability in the Design-Build Environment. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2020, 12, .	1.6	7
34	Analysis on the Obstacles of Implementing Small and Medium Public-Private Partnership for U.S. Infrastructure Development. , 2020, , .		0
35	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.	1.6	3
36	Leveraging Blockchain Technology in AEC Industry during Design Development Phase. , 2019, , .		16

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37	Application of Natural Language Processing and Text Mining to Identify Patterns in Construction-Defect Litigation Cases. <i>Journal of Legal Affairs and Dispute Resolution in Engineering and Construction</i> , 2019, 11, .	1.6	49
38	A data envelopment analysis (DEA) model for building energy benchmarking. <i>Journal of Engineering, Design and Technology</i> , 2019, 17, 747-768.	2.0	10
39	Analysis of the Variability of Submitted Unit Price Bids for Asphalt Line Items in Highway Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, .	4.0	17
40	Identifying Patterns in Design-Build Projects in Terms of Project Cost Performance. , 2019, , .		1
41	Discovering worst fire scenarios in subway stations: A simulation approach. <i>Automation in Construction</i> , 2019, 99, 183-196.	10.0	65
42	BIM log mining: Discovering social networks. <i>Automation in Construction</i> , 2018, 91, 31-43.	10.0	60
43	Automatic fault detection for Building Integrated Photovoltaic (BIPV) systems using time series methods. <i>Built Environment Project and Asset Management</i> , 2018, 8, 160-170.	1.7	2
44	Valuation of energy efficient certificates in buildings. <i>Energy and Buildings</i> , 2018, 158, 1226-1240.	6.8	46
45	BIM Log Mining: Measuring Design Productivity. <i>Journal of Computing in Civil Engineering</i> , 2018, 32, .	4.9	28
46	Forecasting Construction Cost Index based on visibility graph: A network approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 493, 239-252.	2.6	33
47	Profile Monitoring for Examining Impact of Hurricane Katrina and Rita on Highway Construction Cost. <i>Transportation Research Record</i> , 2018, 2672, 79-87.	1.8	4
48	Statistical Modeling of Number of Bidders in Highway Resurfacing and Widening Construction Projects. , 2018, , .		4
49	Exploring Collaborative Networks in BIM Design Based on Event Logs. , 2018, , .		0
50	Synthesis of Quality Assurance Practices of State DOTs for Highway Construction Projects Using Alternative Delivery. , 2018, , .		3
51	Embodied life cycle assessment comparison of single family residential houses considering the 1970s transition in construction industry: Atlanta case study. <i>Building and Environment</i> , 2018, 140, 55-67.	7.0	13
52	Neighborhood racial composition, neighborhood wealth, and the surrounding food environment in Fulton County, GA. <i>Applied Geography</i> , 2018, 97, 119-127.	3.8	15
53	Life Cycle Energy and Carbon Analysis of Single Family Residential Buildings: Atlanta Case Study. , 2018, , .		1
54	Prediction of Unit Price Bids of Resurfacing Highway Projects through Ensemble Machine Learning. <i>Journal of Computing in Civil Engineering</i> , 2018, 32, .	4.9	40

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55	Influence of Task Complexity in Shaping Environmental Review and Engineering Design Durations. Journal of Management in Engineering - ASCE, 2018, 34, 04018043.	4.8	7
56	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, .	4.0	23
57	A novel method for forecasting time series based on fuzzy logic and visibility graph. Advances in Data Analysis and Classification, 2017, 11, 759-783.	1.5	116
58	Long Term Change Pattern Analysis of Bidding Price Based on Non-Parametric Framework. , 2017, , .		0
59	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, .	4.8	17
60	Time-Series Analysis for Forecasting Asphalt-Cement Price. Journal of Management in Engineering - ASCE, 2017, 33, .	4.8	33
61	Predicting ENR Construction Cost Index Using Machine-Learning Algorithms. International Journal of Construction Education and Research, 2017, 13, 47-63.	1.6	25
62	Recommended Opportunities for the Development of Highway Public-Private Partnership Projects in the United States. , 2016, , .		1
63	Modeling and Forecasting the Price of Asphalt Cement Using Generalized Auto Regressive Conditional Heteroscedasticity. , 2016, , .		6
64	Predicting ENR's Construction Cost Index Using the Modified K Nearest Neighbors (KNN) Algorithm. , 2016, , .		6
65	Recommended Practices for the Cost Control of Highway Project Development. , 2016, , .		4
66	Highway Construction Cost Forecasting Using Vector Error Correction Models. Journal of Management in Engineering - ASCE, 2016, 32, .	4.8	55
67	Price Adjustment Clauses and Submitted Bid Prices for Major Asphalt Line Items in Highway Projects. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	4.0	14
68	Timing residential photovoltaic investments in the presence of demand uncertainties. Sustainable Cities and Society, 2016, 20, 109-123.	10.6	23
69	A Sequential Pattern Mining Approach to Extract Information from BIM Design Log Files. ISARC Proceedings, 2016, , .	0.0	5
70	A cost-benefit case for RFID implementation in hospitals: adapting to industry reform. Facilities, 2015, 33, 367-388.	1.7	12
71	State of Private Financing in Development of Highway Projects in the United States. Journal of Management in Engineering - ASCE, 2015, 31, .	4.8	17
72	Investment Valuation Model for Renewable Energy Systems in Buildings. Journal of Construction Engineering and Management - ASCE, 2015, 141, .	4.0	27

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73	Shuffled Frog-Leaping Model for Solving Time-Cost-Resource Optimization Problems in Construction Project Planning. <i>Journal of Computing in Civil Engineering</i> , 2015, 29, .	4.9	37
74	Empirical Study of Effects of Price Adjustment Clauses (PACs) on Highway Construction Bid. , 2014, , .		3
75	A Stochastic Process to Model the Fluctuations of Asphalt Cement Price. , 2014, , .		7
76	Challenges and Opportunities for Expediting Environmental Analysis in Transportation Design-Build Projects. , 2014, , .		4
77	Forecasting <i>Engineering News-Record</i> Construction Cost Index Using Multivariate Time Series Models. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013, 139, 1237-1243.	4.0	70
78	Methods for Assessing Longitudinal Variations of Energy Production by PV Systems. , 2013, , .		0
79	Financial Valuation of Investments in International Construction Markets: Real-Options Approach for Market-Entry Decisions. <i>Journal of Management in Engineering - ASCE</i> , 2013, 29, 355-368.	4.8	32
80	Stochastic Optimization of Construction Projects Planning with Genetic Algorithm. , 2012, , .		4
81	Long Term Concessions on Public-Private Partnership Projectsâ€”How to Make This Right?. , 2012, , .		1
82	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
83	Development of Fuzzy Enabled Shuffled Frog Leaping Algorithm with Activity Splitting Allowed in Construction Project Scheduling. , 2012, , .		1
84	Empirical tests for identifying leading indicators of ENR Construction Cost Index. <i>Construction Management and Economics</i> , 2012, 30, 917-927.	3.2	50
85	Risk-Neutral Pricing Approach for Evaluating BOT Highway Projects with Government Minimum Revenue Guarantee Options. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012, 138, 545-557.	4.0	135
86	Fuzzy Enabled Hybrid Genetic Algorithmâ€”Particle Swarm Optimization Approach to Solve TCRO Problems in Construction Project Planning. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012, 138, 1065-1074.	4.0	38
87	A Real Options Model to Evaluate Investments in Photovoltaic (PV) Systems. , 2012, , .		4
88	A real options framework to evaluate investments in toll road projects delivered under the twoâ€”phase development strategy. <i>Built Environment Project and Asset Management</i> , 2011, 1, 14-31.	1.7	14
89	Time Series Analysis of ENR Construction Cost Index. <i>Journal of Construction Engineering and Management - ASCE</i> , 2010, 136, 1227-1237.	4.0	103
90	VALUATION OF FLEXIBLE LEASES FOR CORPORATE TENANTS FACING UNCERTAINTY IN THEIR REQUIRED WORK SPACE. <i>International Journal of Strategic Property Management</i> , 2010, 14, 49-72.	1.8	7

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91	Forecasting ENR Construction Cost Index: A Time Series Analysis Approach. , 2010, , .		4
92	Life Cycle Cost Analysis of Hybrid Chiller Plants under Dynamic Utility Prices. , 2010, , .		0
93	A Financial Market Entry Decision Model for International Construction Business Using Real Option Analysis and Monte Carlo Simulation. , 2010, , .		1
94	A Real-Options Approach to Modeling Investments in Competitive, Dynamic Retail Markets. , 2008, , .		7
95	Ensemble Machine Learning Classification Models for Predicting Pavement Condition. Transportation Research Record, 0, , .	1.8	0