

Baabak Ashuri

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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. | 4.0 | 135 |
| 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. | 1.5 | 116 |
| 3 | Time Series Analysis of ENR Construction Cost Index. Journal of Construction Engineering and Management - ASCE, 2010, 136, 1227-1237. | 4.0 | 103 |
| 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. | 4.0 | 70 |
| 5 | Discovering worst fire scenarios in subway stations: A simulation approach. Automation in Construction, 2019, 99, 183-196. | 10.0 | 65 |
| 6 | BIM log mining: Discovering social networks. Automation in Construction, 2018, 91, 31-43. | 10.0 | 60 |
| 7 | Highway Construction Cost Forecasting Using Vector Error Correction Models. Journal of Management in Engineering - ASCE, 2016, 32, . | 4.8 | 55 |
| 8 | Empirical tests for identifying leading indicators of ENR Construction Cost Index. Construction Management and Economics, 2012, 30, 917-927. | 3.2 | 50 |
| 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, . | 1.6 | 49 |
| 10 | Valuation of energy efficient certificates in buildings. Energy and Buildings, 2018, 158, 1226-1240. | 6.8 | 46 |
| 11 | Embodied Life Cycle Assessment (LCA) comparison of residential building retrofit measures in Atlanta. Building and Environment, 2020, 171, 106644. | 7.0 | 44 |
| 12 | Prediction of Unit Price Bids of Resurfacing Highway Projects through Ensemble Machine Learning. Journal of Computing in Civil Engineering, 2018, 32, . | 4.9 | 40 |
| 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. | 4.0 | 38 |
| 14 | Shuffled Frog-Leaping Model for Solving Time-Cost-Resource Optimization Problems in Construction Project Planning. Journal of Computing in Civil Engineering, 2015, 29, . | 4.9 | 37 |
| 15 | Time-Series Analysis for Forecasting Asphalt-Cement Price. Journal of Management in Engineering - ASCE, 2017, 33, . | 4.8 | 33 |
| 16 | Forecasting Construction Cost Index based on visibility graph: A network approach. Physica A: Statistical Mechanics and Its Applications, 2018, 493, 239-252. | 2.6 | 33 |
| 17 | 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. | 4.8 | 32 |
| 18 | Predicting the Volatility of Highway Construction Cost Index Using Long Short-Term Memory. Journal of Management in Engineering - ASCE, 2020, 36, . | 4.8 | 31 |

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|----|--|------|-----------|
| 19 | BIM Log Mining: Measuring Design Productivity. Journal of Computing in Civil Engineering, 2018, 32, . | 4.9 | 28 |
| 20 | Investment Valuation Model for Renewable Energy Systems in Buildings. Journal of Construction Engineering and Management - ASCE, 2015, 141, . | 4.0 | 27 |
| 21 | Predicting ENR Construction Cost Index Using Machine-Learning Algorithms. International Journal of Construction Education and Research, 2017, 13, 47-63. | 1.6 | 25 |
| 22 | Timing residential photovoltaic investments in the presence of demand uncertainties. Sustainable Cities and Society, 2016, 20, 109-123. | 10.6 | 23 |
| 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, . | 4.0 | 23 |
| 24 | 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 |
| 25 | Forecasting Ratio of Low Bid to Owner's Estimate for Highway Construction. Journal of Construction Engineering and Management - ASCE, 2021, 147, . | 4.0 | 20 |
| 26 | State of Private Financing in Development of Highway Projects in the United States. Journal of Management in Engineering - ASCE, 2015, 31, . | 4.8 | 17 |
| 27 | 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 |
| 28 | 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, . | 4.0 | 17 |
| 29 | Leveraging Blockchain Technology in AEC Industry during Design Development Phase. , 2019, , . | | 16 |
| 30 | Neighborhood racial composition, neighborhood wealth, and the surrounding food environment in Fulton County, GA. Applied Geography, 2018, 97, 119-127. | 3.8 | 15 |
| 31 | Impact of COVID-19 on the Diversity of the Construction Workforce. Natural Hazards Review, 2022, 23, . | 1.6 | 15 |
| 32 | 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. | 1.7 | 14 |
| 33 | 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 |
| 34 | 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. | 7.0 | 13 |
| 35 | A cost-benefit case for RFID implementation in hospitals: adapting to industry reform. Facilities, 2015, 33, 367-388. | 1.7 | 12 |
| 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, . | 1.6 | 12 |

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| 37 | 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 |
| 38 | 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 |
| 39 | A data envelopment analysis (DEA) model for building energy benchmarking. Journal of Engineering, Design and Technology, 2019, 17, 747-768. | 2.0 | 10 |
| 40 | A Real-Options Approach to Modeling Investments in Competitive, Dynamic 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. | 1.8 | 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. | 4.8 | 7 |
| 44 | 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 |
| 45 | 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 |
| 46 | Modeling and Forecasting the Price of Asphalt Cement Using Generalized Auto Regressive Conditional Heteroscedasticity. , 2016, , . | | 6 |
| 47 | Predicting ENR's Construction Cost Index Using the Modified K Nearest Neighbors (KNN) Algorithm. , 2016, , . | | 6 |
| 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, . | 4.0 | 6 |
| 49 | Option Value of Contingent Finance Support in Transportation Public-Private Partnership Projects. Transportation Research Record, 2020, 2674, 555-565. | 1.8 | 5 |
| 50 | A Sequential Pattern Mining Approach to Extract Information from BIM Design Log Files. ISARC Proceedings, 2016, , . | 0.0 | 5 |
| 51 | 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 |
| 52 | Forecasting ENR Construction Cost Index: A Time Series Analysis Approach. , 2010, , . | | 4 |
| 53 | Stochastic Optimization of Construction Projects Planning with Genetic Algorithm. , 2012, , . | | 4 |
| 54 | A Real Options Model to Evaluate Investments in Photovoltaic (PV) Systems. , 2012, , . | | 4 |

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|----|--|-----|-----------|
| 55 | Challenges and Opportunities for Expediting Environmental Analysis in Transportation Design-Build Projects. , 2014, , . | | 4 |
| 56 | Recommended Practices for the Cost Control of Highway Project Development. , 2016, , . | | 4 |
| 57 | Profile Monitoring for Examining Impact of Hurricane Katrina and Rita on Highway Construction Cost. Transportation Research Record, 2018, 2672, 79-87. | 1.8 | 4 |
| 58 | Statistical Modeling of Number of Bidders in Highway Resurfacing and Widening Construction Projects. , 2018, , . | | 4 |
| 59 | Empirical Study of Effects of Price Adjustment Clauses (PACs) on Highway Construction Bid. , 2014, , . | | 3 |
| 60 | Synthesis of Quality Assurance Practices of State DOTs for Highway Construction Projects Using Alternative Delivery. , 2018, , . | | 3 |
| 61 | 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 |
| 62 | Comparative Analysis of Right of Way Acquisition Processes by State DOTs. , 2022, , . | | 3 |
| 63 | Automatic fault detection for Building Integrated Photovoltaic (BIPV) systems using time series methods. Built Environment Project and Asset Management, 2018, 8, 160-170. | 1.7 | 2 |
| 64 | 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 |
| 65 | 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 |
| 66 | Key Challenges in Megabridge Designâ€œBuild Project Procurement. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2022, 14, . | 1.6 | 2 |
| 67 | A Pattern-Recognition Method for Highway Construction Project Expenditure Cash Flows Using Clustering-Based K-Means Approach. , 2022, , . | | 2 |
| 68 | Determining Contract Requirements for Quality Assurance Program in Innovative Project Delivery. , 2022, , . | | 2 |
| 69 | Identifying Gaps in the Understanding of a Quality Assurance Program in Designâ€œBuild Quality Management. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2022, 14, . | 1.6 | 2 |
| 70 | Project Chief Engineer: An Industry Review of a New Position on Designâ€œBuild Teams for Major Transportation Projects. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2023, 15, . | 1.6 | 2 |
| 71 | A Financial Market Entry Decision Model for International Construction Business Using Real Option Analysis and Monte Carlo Simulation. , 2010, , . | | 1 |
| 72 | Long Term Concessions on Public-Private Partnership Projectsâ€œHow to Make This Right?. , 2012, , . | | 1 |

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| 73 | Development of Fuzzy Enabled Shuffled Frog Leaping Algorithm with Activity Splitting Allowed in Construction Project Scheduling. , 2012, , . | | 1 |
| 74 | Recommended Opportunities for the Development of Highway Public-Private Partnership Projects in the United States. , 2016, , . | | 1 |
| 75 | Life Cycle Energy and Carbon Analysis of Single Family Residential Buildings: Atlanta Case Study. , 2018, , . | | 1 |
| 76 | Identifying Patterns in Design-Build Projects in Terms of Project Cost Performance. , 2019, , . | | 1 |
| 77 | Predicting Ratio of Low Bid to Ownerâ€™s Estimate Using Feedforward Neural Networks for Highway Construction. , 2022, , . | | 1 |
| 78 | Developing a Multivariate Time-Series Model to Forecast the Level of Competition in Transportation Projects. , 2022, , . | | 1 |
| 79 | Life Cycle Cost Analysis of Hybrid Chiller Plants under Dynamic Utility Prices. , 2010, , . | | 0 |
| 80 | Methods for Assessing Longitudinal Variations of Energy Production by PV Systems. , 2013, , . | | 0 |
| 81 | Long Term Change Pattern Analysis of Bidding Price Based on Non-Parametric Framework. , 2017, , . | | 0 |
| 82 | Exploring Collaborative Networks in BIM Design Based on Event Logs. , 2018, , . | | 0 |
| 83 | Analysis on the Obstacles of Implementing Small and Medium Public-Private Partnership for U.S. Infrastructure Development. , 2020, , . | | 0 |
| 84 | Empirical Analysis of Factors Associated with Financial Loss due to Hurricane Harvey. , 2022, , . | | 0 |
| 85 | Developing Transportation Resilience Adaptively to Climate Change. Transportation Research Record, 2024, 2678, 835-848. | 1.8 | 0 |
| 86 | Critical Review of Publicâ€“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 |
| 87 | Forecasting Right-of-Way (ROW) acquisition timeline of transportation projects. Built Environment Project and Asset Management, 2024, 14, 129-146. | 1.7 | 0 |
| 88 | 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 |
| 89 | 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 |
| 90 | A Critical Assessment of Material Price Adjustment Clauses for Transportation Designâ€“Build Projects. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2024, 16, . | 1.6 | 0 |

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|----|--|-----|-----------|
| 91 | Ensemble Machine Learning Classification Models for Predicting Pavement Condition. Transportation Research Record, 0, , . | 1.8 | 0 |
| 92 | 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 |
| 93 | Empirical adaption of Work/Rest schedules to physiological variability in heat response. Safety Science, 2024, 177, 106574. | 5.0 | 0 |
| 94 | Forecasting Highway Maintenance Cost at the Early Stage Using Machine Learning. , 2024, , . | | 0 |
| 95 | 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 |