

# Baabak Ashuri

## 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.

67

papers

936

citations

17

h-index

28

g-index

83

ext. papers

1,170

ext. citations

3.9

avg, IF

5.1

L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 67 | Risk-Neutral Pricing Approach for Evaluating BOT Highway Projects with Government Minimum Revenue Guarantee Options. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2012</b> , 138, 545-557                           | 4.2 | 106       |
| 66 | A novel method for forecasting time series based on fuzzy logic and visibility graph. <i>Advances in Data Analysis and Classification</i> , <b>2017</b> , 11, 759-783  | 1.8 | 81        |
| 65 | Time Series Analysis of ENR Construction Cost Index. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2010</b> , 136, 1227-1237   | 4.2 | 73        |
| 64 | Forecasting Engineering News-Record Construction Cost Index Using Multivariate Time Series Models. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2013</b> , 139, 1237-1243   | 4.2 | 52        |
| 63 | Highway Construction Cost Forecasting Using Vector Error Correction Models. <i>Journal of Management in Engineering - ASCE</i> , <b>2016</b> , 32, 04015040  | 5.3 | 38        |
| 62 | BIM log mining: Discovering social networks. <i>Automation in Construction</i> , <b>2018</b> , 91, 31-43   | 9.6 | 36        |
| 61 | Empirical tests for identifying leading indicators of ENR Construction Cost Index. <i>Construction Management and Economics</i> , <b>2012</b> , 30, 917-927  | 3   | 35        |
| 60 | Discovering worst fire scenarios in subway stations: A simulation approach. <i>Automation in Construction</i> , <b>2019</b> , 99, 183-196  | 9.6 | 32        |
| 59 | Fuzzy Enabled Hybrid Genetic Algorithm Particle Swarm Optimization Approach to Solve TCRO Problems in Construction Project Planning. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2012</b> , 138, 1065-1074         | 4.2 | 30        |
| 58 | Valuation of energy efficient certificates in buildings. <i>Energy and Buildings</i> , <b>2018</b> , 158, 1226-1240  | 7   | 29        |
| 57 | Financial Valuation of Investments in International Construction Markets: Real-Options Approach for Market-Entry Decisions. <i>Journal of Management in Engineering - ASCE</i> , <b>2013</b> , 29, 355-368                                   | 5.3 | 26        |
| 56 | 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> , <b>2019</b> , 11, 04519024 | 1.7 | 24        |
| 55 | Shuffled Frog-Leaping Model for Solving Time-Cost-Resource Optimization Problems in Construction Project Planning. <i>Journal of Computing in Civil Engineering</i> , <b>2015</b> , 29, 04014026   | 5   | 23        |
| 54 | Time-Series Analysis for Forecasting Asphalt-Cement Price. <i>Journal of Management in Engineering - ASCE</i> , <b>2017</b> , 33, 04016030   | 5.3 | 21        |
| 53 | Prediction of Unit Price Bids of Resurfacing Highway Projects through Ensemble Machine Learning. <i>Journal of Computing in Civil Engineering</i> , <b>2018</b> , 32, 04018043   | 5   | 20        |
| 52 | Forecasting Construction Cost Index based on visibility graph: A network approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2018</b> , 493, 239-252   | 3.3 | 20        |
| 51 | BIM Log Mining: Measuring Design Productivity. <i>Journal of Computing in Civil Engineering</i> , <b>2018</b> , 32, 04017071   | 17  | 17        |

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|----|---|------|----|
| 50 | Embodied Life Cycle Assessment (LCA) comparison of residential building retrofit measures in Atlanta. <i>Building and Environment</i> , <b>2020</b> , 171, 106644   | 6.5  | 16 |
| 49 | Predicting ENR Construction Cost Index Using Machine-Learning Algorithms. <i>International Journal of Construction Education and Research</i> , <b>2017</b> , 13, 47-63   | 0.8  | 16 |
| 48 | Investment Valuation Model for Renewable Energy Systems in Buildings. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2015</b> , 141, 04014074  | 4.2  | 15 |
| 47 | Timing residential photovoltaic investments in the presence of demand uncertainties. <i>Sustainable Cities and Society</i> , <b>2016</b> , 20, 109-123  | 10.1 | 14 |
| 46 | State of Private Financing in Development of Highway Projects in the United States. <i>Journal of Management in Engineering - ASCE</i> , <b>2015</b> , 31, 04015002   | 5.3  | 13 |
| 45 | Predicting the Volatility of Highway Construction Cost Index Using Long Short-Term Memory. <i>Journal of Management in Engineering - ASCE</i> , <b>2020</b> , 36, 04020020  | 5.3  | 11 |
| 44 | A real options framework to evaluate investments in toll road projects delivered under the two-phase development strategy. <i>Built Environment Project and Asset Management</i> , <b>2011</b> , 1, 14-31   | 1.9  | 11 |
| 43 | Price Adjustment Clauses and Submitted Bid Prices for Major Asphalt Line Items in Highway Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2016</b> , 142, 04015103  | 4.2  | 10 |
| 42 | Empirical Investigation of Temporal Association between Architecture Billings Index and Construction Spending Using Time-Series Methods. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2017</b> , 143, 04017080                       | 4.2  | 10 |
| 41 | Text Mining of the Securities and Exchange Commission Financial Filings of Publicly Traded Construction Firms Using Deep Learning to Identify and Assess Risk. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2020</b> , 146, 04020137 | 4.2  | 10 |
| 40 | A cost-benefit case for RFID implementation in hospitals: adapting to industry reform. <i>Facilities</i> , <b>2015</b> , 33, 367-388  | 2.2  | 9  |
| 39 | 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> , <b>2018</b> , 140, 55-67                                       | 6.5  | 9  |
| 38 | 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> , <b>2019</b> , 145, 04019020   | 4.2  | 8  |
| 37 | Challenges and Enablers for Private Sector Involvement in Delivery of Highway Public-Private Partnerships in the United States. <i>Journal of Management in Engineering - ASCE</i> , <b>2017</b> , 33, 04016047   | 5.3  | 8  |
| 36 | Leveraging Blockchain Technology in AEC Industry during Design Development Phase <b>2019</b> ,  |      | 7  |
| 35 | Key Issues and Differences in Practical Components of Quality Management in Design-Build Highway Projects. <i>Journal of Legal Affairs and Dispute Resolution in Engineering and Construction</i> , <b>2020</b> , 12, 04519029                                | 1.7  | 7  |
| 34 | Neighborhood racial composition, neighborhood wealth, and the surrounding food environment in Fulton County, GA. <i>Applied Geography</i> , <b>2018</b> , 97, 119-127   | 4.4  | 7  |
| 33 | A data envelopment analysis (DEA) model for building energy benchmarking. <i>Journal of Engineering, Design and Technology</i> , <b>2019</b> , 17, 747-768  | 1.5  | 6  |

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| 32 | Influence of Task Complexity in Shaping Environmental Review and Engineering Design Durations. <i>Journal of Management in Engineering - ASCE</i> , <b>2018</b> , 34, 04018043  | 5.3 | 6 |
| 31 | A Stochastic Process to Model the Fluctuations of Asphalt Cement Price <b>2014</b> ,  |     | 6 |
| 30 | 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? <b>2012</b> ,   |     | 6 |
| 29 | VALUATION OF FLEXIBLE LEASES FOR CORPORATE TENANTS FACING UNCERTAINTY IN THEIR REQUIRED WORK SPACE. <i>International Journal of Strategic Property Management</i> , <b>2010</b> , 14, 49-72   | 1.9 | 5 |
| 28 | A Real-Options Approach to Modeling Investments in Competitive, Dynamic Retail Markets <b>2008</b> ,  |     | 5 |
| 27 | Forecasting the Construction Expenditure Cash Flow for Transportation Design-Build Projects with a Case-Based Reasoning Model. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2021</b> , 147, 04021043                               | 4.2 | 5 |
| 26 | Challenges and Opportunities for Expediting Environmental Analysis in Transportation Design-Build Projects <b>2014</b> ,  |     | 4 |
| 25 | Forecasting Ratio of Low Bid to Owner's Estimate for Highway Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2021</b> , 147, 04020157   | 4.2 | 4 |
| 24 | Analysis of the Variability of Project Cost and Schedule Performance in the Design-Build Environment. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2020</b> , 146, 04020060  | 4.2 | 3 |
| 23 | Empirical Study of Effects of Price Adjustment Clauses (PACs) on Highway Construction Bid <b>2014</b> ,   |     | 3 |
| 22 | Forecasting ENR Construction Cost Index: A Time Series Analysis Approach <b>2010</b> ,  |     | 3 |
| 21 | Stochastic Optimization of Construction Projects Planning with Genetic Algorithm <b>2012</b> ,  |     | 3 |
| 20 | Application of Dynamic Adaptive Planning and Risk-Adjusted Decision Trees to Capture the Value of Flexibility in Resilience and Transportation Planning. <i>Transportation Research Record</i> , <b>2020</b> , 2674, 298-310                                | 1.7 | 3 |
| 19 | Modeling and Forecasting the Price of Asphalt Cement Using Generalized Auto Regressive Conditional Heteroscedasticity <b>2016</b> ,   |     | 3 |
| 18 | Recommended Practices for the Cost Control of Highway Project Development <b>2016</b> ,   |     | 2 |
| 17 | Strategies and Resources for Government Agencies to Utilize Disadvantaged Business Enterprises in Transportation Design-Build Projects. <i>Journal of Legal Affairs and Dispute Resolution in Engineering and Construction</i> , <b>2019</b> , 11, 04519022 | 1.7 | 2 |
| 16 | A Real Options Model to Evaluate Investments in Photovoltaic (PV) Systems <b>2012</b> ,   |     | 2 |
| 15 | A Sequential Pattern Mining Approach to Extract Information from BIM Design Log Files <b>2016</b> ,   |     | 2 |

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| 14 | Key Challenges to Design Professional Liability in the Design-Build Environment. <i>Journal of Legal Affairs and Dispute Resolution in Engineering and Construction</i> , <b>2020</b> , 12, 04520031    | 1.7 | 2 |
| 13 | Profile Monitoring for Examining Impact of Hurricane Katrina and Rita on Highway Construction Cost. <i>Transportation Research Record</i> , <b>2018</b> , 2672, 79-87                                   | 1.7 | 2 |
| 12 | Option Value of Contingent Finance Support in Transportation Public-Private Partnership Projects. <i>Transportation Research Record</i> , <b>2020</b> , 2674, 555-565                                   | 1.7 | 1 |
| 11 | Automatic fault detection for Building Integrated Photovoltaic (BIPV) systems using time series methods. <i>Built Environment Project and Asset Management</i> , <b>2018</b> , 8, 160-170               | 1.9 | 1 |
| 10 | Predicting ENR's Construction Cost Index Using the Modified K Nearest Neighbors (KNN) Algorithm <b>2016</b> ,   |     | 1 |
| 9  | Development of Fuzzy Enabled Shuffled Frog Leaping Algorithm with Activity Splitting Allowed in Construction Project Scheduling <b>2012</b> ,   |     | 1 |
| 8  | A Financial Market Entry Decision Model for International Construction Business Using Real Option Analysis and Monte Carlo Simulation <b>2010</b> ,   |     | 1 |
| 7  | Recommended Opportunities for the Development of Highway Public-Private Partnership Projects in the United States <b>2016</b> ,   |     | 1 |
| 6  | Identifying Patterns in Design-Build Projects in Terms of Project Cost Performance <b>2019</b> ,  |     | 1 |
| 5  | Statistical Modeling of Number of Bidders in Highway Resurfacing and Widening Construction Projects <b>2018</b> ,   |     | 1 |
| 4  | Synthesis of Quality Assurance Practices of State DOTs for Highway Construction Projects Using Alternative Delivery <b>2018</b> ,   |     | 1 |
| 3  | Life Cycle Energy and Carbon Analysis of Single Family Residential Buildings: Atlanta Case Study <b>2018</b> ,  |     | 1 |
| 2  | Improving the Management Practices for Right-of-Way Acquisition Process. <i>Journal of Legal Affairs and Dispute Resolution in Engineering and Construction</i> , <b>2022</b> , 14, 04521038            | 1.7 | 1 |
| 1  | Proportional Cox Hazards Model to Quantify the Likelihood of Underestimation in Transportation Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2021</b> , 147, 04021134 | 4.2 | 0 |