

Saleh Abu Dabous, Ph.D., P. Eng., CCP

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**SHORT BIOGRAPHY:**

Saleh Abu Dabous is an Associate Professor at the Department of Civil and Environmental Engineering - University of Sharjah. Saleh's educational background includes a Ph.D. and a Master's in Civil Engineering from Concordia University in Canada, and a Bachelor's degree in Civil Engineering from Jordan University of Science and Technology. Saleh is a licensed Professional Engineer in Ontario/Canada with several years of industry experience. Saleh is the coordinator of the Sustainable Civil Infrastructure Systems research group at University of Sharjah and is an Associate Editor for *Frontiers in Built Environment* journal. His primary research interests are in the areas of building engineering, infrastructure condition assessment and rating, decision support systems, construction management and cost engineering. Saleh is passionate about teaching, research, and working with students and young professionals.

PROFESSIONAL AFFILIATIONS:

- **Associate Editor for *Frontiers in Built Environment* – *Construction Management***
- **Licensed Professional Engineer of Ontario/Canada – License #: 100019802**
- **Jordan Engineers Association – License #: 12805/01**
- **Certified Cost Professional (CCP) - AACE International – License #: 4142**

EDUCATION:**Ph. D. in Building Engineering – Construction Management (August 2008)**

Building, Civil, and Environmental Engineering Department, Concordia University, Montreal, Quebec, Dissertation: “A Decision Support Methodology for Rehabilitation Management of Concrete Bridges”

Graduate Diploma in Computer Science (May 2003)

Concordia University, Montreal, Quebec

Master in Civil Engineering/ Structures (May 2000)

Concordia University, Montreal, Quebec

Dissertation: “Relaxation of Prestressed Steel Used in Construction of the Confederation Bridge”

Bachelor of Science in Civil Engineering (May 1996)

Jordan University of Science and Technology, Irbid, Jordan

ACADEMIC EXPERIENCE:

Associate Professor (January 2020 – Current)

Department of Civil and Environmental Engineering, University of Sharjah

- Department Associate Chair for Administration Affairs
- Teaching courses at both undergraduate and graduate levels:
 - Engineering Economics (0401301)
 - Construction Engineering (0405-437)
 - Supervision of Senior Design Project I & II – Average of three groups
 - Engineering Project Management (0405-561) – Graduate course
 - Management of Construction Projects (0401-534) – Graduate course
 - Cost Analysis for Construction Projects (0401-533) – Graduate course
- Department, College and University committees and services:
 - Department Chair Associate
 - Member of the Committee overseeing and managing the newly accredited master program in GIS and Remote Sensing
 - Chair of the College and Department Outreach Committee
 - Member of the curriculum committee
 - Member of the Department UAE Ministry Accreditation Committee
 - Member of the College Outreach Committee
 - Member of ABET Accreditation Committee
 - Member of ABET Steering Committee
 - Member of College committee that organized the UAE Innovation Week / 2015 and 2016
 - Member of the University committee to oversee the University Science Complex project
 - Member of the University committee to develop and accredit a new master program in GIS and Remote Sensing
 - Member of the organizing committee for Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17) Conference

Assistant Professor (January 2015 – January 2020)

Department of Civil and Environmental Engineering, University of Sharjah

- Teaching courses at both undergraduate and graduate levels:
 - Engineering Economics (0401301)
 - Professional Practice in Civil Engineering (0401-495)
 - Construction Engineering (0405-437)
 - Senior Design Project Supervision – Average of Three Groups
 - Engineering Project Management (0405-561) – Graduate Course
 - Management of Construction Projects (0401-534) – Graduate Course
 - Cost Analysis for Construction Projects (0401-533) – Graduate Course
- Involved in Department, College and University committees and services:
 - Chair of the Department Outreach Committee
 - Member of the curriculum committee
 - Member of the Department UAE Ministry Accreditation Committee
 - Member of the College Outreach Committee
 - Member of ABET Accreditation Committee
 - Member of ABET Steering Committee

- Member of College committee that organized the UAE Innovation Week / 2015 and 2016
- Member of the University committee to oversee the University Science Complex project
- Member of the University committee to develop and accredit a new master program in GIS and Remote Sensing
- Member of the organizing committee for Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17) Conference

Visiting Assistant Professor (September 2010 – December 2011)

Civil Engineering Department, American University of Sharjah

- Conducted research and taught courses in construction engineering and management:
 - Civil Engineering Cost Analysis (CVE 267)
 - Project Estimating, Planning and Control (CVE 367)
 - Construction Management (CVE 463)
- Involved in department committees and college services:
 - Member of the organizing committee for the International Conference on Sustainable Systems and the Environment (ISSE 2011). The conference is organized in collaboration with the Centre for Sustainable Development at the University of Cambridge
 - ABET Accreditation Committee
 - Outreach Committee

Assistant Professor-Limited Term Appointment (August 2009 – August 2010)

Department of Building, Civil and Environmental Engineering, Concordia University

- Conducted research and taught courses in construction engineering and management:
 - Project Management for Construction (BLDG 478) – Summer 2009
 - Engineering Management Principles and Economics (ENGR 301) – Fall 2009 (Two Sections)
 - Construction Engineering (BCEE 451) – Fall 2009 and Summer 2010
- Involved in department committees and services and supervised senior capstone design projects.

Part-Time Instructor (January 2006 to August 2009 and May 2012 – August 2014)

Department of Building, Civil and Environmental Engineering, Concordia University

Supervising graduate students and teaching graduate and under-graduate courses

Courses:

- Engineering Management Principles and Economics (ENGR 301) – Winter 2006, Summer 2006, Fall 2007, Summer 2012 and Summer 2013
- Project Management (BLDG 6571) – Winter 2009, Fall 2012 and Fall 2013
- Project Management for Construction (BLDG478) - Summer 2009

Research and Teaching Assistant / Ph. D Candidate (September 2004 – August 2008)

Concordia University, Montreal, Quebec

Completed Ph.D. research in the area of infrastructure management and decision support systems

President of AACEI-Concordia Student Section and Board Member of AACEI-Montreal Section (November 2005 – May 2008)

Organized events and lectures presented by professionals from industry. Managed the AACEI student scholarship and proctored AACEI certification exams

INDUSTRY EXPERIENCE:

Project Cost Control Engineer (January 2012 – January 2015)

Hatch Ltd., Montreal, Quebec

Projects: Belle Plain Compaction – Mosaic; Alcoa Alliance Program; De Beers-Mountain Province Gahcho Kué Diamond Mine

- Defined project packaging structure and developed project baseline
- Participated in the development of project control procedures and strategies
- Completed scope analysis and control during engineering and procurement cycles
- Managed project trends and forecasts and analyzed productivity analysis and labour rates; commitments change management; schedule variances
- Led a monthly cost report internal review meeting with the Project Management team and a second monthly meeting with the client
- Issued monthly deliverables to client: Detailed and Summary Cost Reports; Project Schedule; Progress and Accruals Report, Incurred Cost Summary and Incurred Cost Profile, Funding Requests, Cost and Schedule Variance Report; Safety Statistics
- Completed monthly contingency analysis and evaluation
- Managed project capitalization process

Project Control Specialist (May 2008 – August 2009)

Hatch Ltd., Montreal, Quebec

Projects: RMB - Water Treatment Plan / Helguvic – Aluminum Smelter / Esterhazy

- Initiated improvement actions of project controls procedures on major industrial projects
- Provided training to project controllers resulting in timely and consistent month-end reporting on major industrial program.
- Participated with the iPas PC Functional team to develop the company Project Control System and the related project control procedures
- Verified and validated the integration of the Project Control System with SAP system (Resources Data), Primavera (Schedule) and Candy (Cost Estimate)
- Managed an initiative to develop models to implement the earned value methodology
- Participated in the development of the organization global vendor database to optimize procurement cost

Project Engineer (May 2000 – March 2003)

Dekis Trading & Investments Inc., Montreal, Quebec

- Participated in preparing detailed cost estimates for bidding purposes
- Participated in the development Generic Projects Cost Structure and Cost Account Codes Directory under Standard Work Breakdown Structure
- Developed estimates for project changes and contract variation
- Prepared project cost estimate of resources and other expenses for bidding purposes
- Prepared 'Budgeted Cost of Work Scheduled' (or Spent Profile), discuss and agree

- Generated monthly cost reports in tabular and graphical formats for each project including ‘Earned Value Report’, ‘Plan Spent versus Actual Spent’
- Performed cost analysis and advised senior management on cost over-runs and issued the monthly reports

SUPERVISION OF GRADUATE STUDENTS:

Master and Ph.D. Students:

- Maryam Humaid Saeed Al Ali
Degree: Master - Thesis (**Main Advisor**)
Thesis Title: “Analysis of Passive Design Strategies on Villa Energy Performance in Hot Climate”
(Expected to defend thesis in Spring 2024)
- Abdalla Salim
Degree: Ph.D. - Thesis (**Sole Advisor**)
Thesis Title: “Success Model for Solar Systems Implementation in the United Arab Emirates”
(Expected to defend thesis in Fall 2023)
- Ala Saif Eldin Eisa Sati
Degree: Ph.D. - Thesis (**Main Advisor**)
Thesis Title: “Integration of Internet of Things and three-dimensional printing for Improving Construction Productivity”, (Expected to defend proposal in Fall 2023)
- Mohamed Yousry El Damaty,
Degree: Master - Thesis (**Main Advisor**)
Thesis Title: “*Analysis and Modelling of Delays during Construction Handover Stage*”
(Graduated in December 2021, University of Sharjah).
- Sainab Feroz
Degree: Master - Thesis (**Main Advisor**)
Thesis Title: “Drone-based Three-Dimensional Modelling for Monitoring of Bridge Infrastructure”.
(Graduated in April 2021, University of Sharjah)
- Mohammad AlAyoub
Degree: Master - Thesis (**Main Advisor**)
Thesis Title: “A Quality Function Deployment and Analytical Hierarchy Process Integrated Methodology to Select Bridge Structural System”,
(Graduated in May 2022, University of Sharjah)
- Fatema Hosny
Degree: Master - Thesis (**Main Advisor**)
Thesis Title: “A Framework for Spatio-Temporal Life Cycle Analysis of Greenhouse Gas Emissions of the Building Stock in the UAE”,
(Graduated in December 2020, University of Sharjah)
- Aghyad Ibrahim Almasri
Degree: Master - Thesis (**Main Advisor**)
Thesis Title: “*Value Engineering Framework for Evaluating Structural Systems of Building Construction: The Case of Reinforced Concrete Vs Steel in Villa Construction*”,
(Graduated in December 2020, University of Sharjah)

- Abdulwahab AlGeelani
 Degree: Master - Thesis (**Main Advisor**)
 Thesis Title: “*Identification of Project Delivery Risks in PPP infrastructure Projects – A Stakeholder’s Perspective*”, (Graduated in June 2020, University of Sharjah)
- Khalifa Musabeh AL Teneiji,
 Degree: Ph. D. (**Co-Advisor**)
 Thesis Title: “*Partnership Mechanism between Private and Public Sectors to Finance and Develop Government Housing Projects*” (Graduated in December 2019, University of Sharjah).
- Tareq Abdulrahim Zadeh
 Degree: Master - Thesis (**Sole Advisor**)
 Thesis Title: “*Decision Support Framework for Formwork Selection in Building Construction*”, (Graduated in May 2019, University of Sharjah)
- Ala Saif Eldin Eisa Sati
 Degree: Master - Thesis (**Main Advisor**)
 Thesis Title: “*International Roughness Index-Based Markov Chain Model for Predicting Asphalt Pavement Condition*”, (Graduated in December 2019, University of Sharjah)
- Ahmed AL-Shaer,
 Degree: Master - Thesis (**Main Advisor**)
 Thesis Title: “*A Study on The Factors Affecting Masonry and Plastering Productivity in UAE Construction Industry*”, (Graduated in May 2018, University of Sharjah)
- Nour Basmaji
 Degree: Master - Project (**Sole Advisor**)
 Project Title: “*Application of Value Analysis on a Pre-Engineered Industrial Project*”, (Status: Graduated in October 2018, University of Sharjah)
- Alya Jasim Abuseem
 Degree: Master - Project (**Sole Advisor**)
 Project Title: “*Multicriteria Method to Prioritize Existing Roundabouts for Improvement in the Emirate of Sharjah*”, (Status: Graduated in October 2018, University of Sharjah)
- Abdalla Mahmoud Salim,
 Degree: Master - Project (**Sole Advisor**)
 Project Title: “*Cost Analysis for Green and Sustainable Multi-Villas Project*“, (Graduated in May 2017, University of Sharjah)
- Salam Yaghi
 Degree: Master of Science in Building Engineering (**Co-Advisor**) – Concordia University,
 Thesis Title: “*Integrated Remote Sensing Technologies for Condition Assessment of Concrete Bridges*” (Graduated in May 2014, Concordia University)
- Sami Moufti
 Degree: Master of Science in Building Engineering (**Co-Advisor**)
 Thesis Title: “*A Detailed Approach for Detailed Condition Assessment of Concrete Bridges*”, (Graduated in October 2013, Concordia University)

RESEARCH GRANTS:

- **PI for Competitive Grant AED 74,000 (Awarded 2019 to 2021)**

“Integration of Ground Penetrating Radar and Remote Sensing Technologies to Detect Reinforced Concrete Deterioration: Laboratory Controlled Testing Setups” – University of Sharjah

- **PI for Competitive Grant AED 74,000 (Awarded 2020 to 2023)**
“Performance Based Contracting Framework for Management of Bridge Infrastructure”– University of Sharjah
- **PI for Competitive Grant AED 74,000 (Awarded 2020 to 2023)**
“Integrated Method for Bridge and Elevator Condition Monitoring using Failure Modes and Criticality Analysis” – University of Sharjah
- **PI for Competitive Grant AED 78,000 (Completed in 2020)**
“Deployment of Non-Destructive Technologies in Condition Assessment of Concrete Bridge Infrastructure” – University of Sharjah
- **PI for Seed Fund – AED 20,000 (Completed in 2016)**
Decision Support System for Condition Assessment of Transportation Infrastructure in the UAE
- **CO-PI for FRG Grant – (Completed in 2013):**
Successful joint proposal with colleagues from the Civil Engineering department at the American University of Sharjah to build an Innovative framework for Bridge Management in the UAE.

AWARDS:

- Sharjah Sustainability Award - Best Paper Award for Research Category, 2019
- Honourable Mention in the competition for the 2011 Stephen G. Revay Award, the Canadian Society for Civil Engineering, 2011
- Nominated for the best Ph. D. Thesis Competition, 2009
- Canadian Transportation Research Forum Student Paper Competition. Second Place in the Ph.D. category, 2006-2007
- Concordia University Dean’s Fellowship, 2004-2007
- Concordia Partial Tuition Scholarship, 1999
- Concordia International Tuition Fee Remission, 1999

LECTURES AND SEMINARS:

- Invited speaker to ACEI-UAE and presented a seminar on “Project Controls using the Earned Value Methodology”, Dubai, UAE.
- Invited key speaker to Bridge and Road Engineering and Maintenance Conference organized by the International Road Foundation. Title: “Integrated Ground Penetrating Radar (GPR) and Infrared Thermography (IRT) method for bridge deck delamination detection”, Dubai, UAE.
- Public seminar to students and faculty in College of Engineering, entitled: “Bridge Deterioration Modeling Using the Markov Chains Stochastic Model”
- Public seminar to students and faculty in College of Engineering, entitled: “Professional Practice and Code of Conduct for Civil Engineers”

- Presentation as part of an event organized by AACE-Montreal, SNC Lavalin Inc., Montreal, Quebec. “Decision Support Model for Bridge Management”
- Hatch Project Control Practices Alignment Workshop, Hatch Ltd., Johannesburg, South Africa. “Project Cost and Time Integrated Control: The Earned Value Methodology”

PUBLICATIONS:

JOURNAL PAPERS:

Almasri, A., Abu Dabous, S., Al-Sadoon, Z.A., and Hosny, F (2023) “Evaluating the efficiency of using lightweight steel in villa construction in the United Arab Emirates: A case study”. *Journal of Building Engineering*, Vol. 72, 106524.

Zeiada, W., Abu Dabous, S., Al-Ruzouq, R., Hamad, K., Souliman, M.I., and Mirou, S. (2023) “Effect of air voids and asphalt content changes on laboratory and simulated long-term fatigue performance of asphalt concrete pavements” *Innovative Infrastructure Solutions*, Vol. 8, No. 48.

Al-Ruzouq, R., Abu Dabous, S., Junaid, M.T. and Hosny, F (2023) ”Nondestructive deformation measurements and crack assessment of concrete structure using close-range photogrammetry”, *Results in Engineering*, Vol. 18, 101058.

Shareef, S., Mushtaha, E.S., Abu Dabous, S., and Alsyouf, I (2023) “Holistic analysis for the efficiency of the thermal mass performance of precast concrete panels in hot climate zones”, *Engineering, Construction and Architectural Management*.

Abu Dabous, S., Al-Ruzouq, R., Llort, D. (2023) “Three-dimensional modeling and defect quantification of existing concrete bridges based on photogrammetry and computer-aided design”, *Ain Shams Engineering Journal*, 102231.

Hamad, K., Obaid, L., Nassif, A.B., Abu Dabous, S., Al-Ruzouq, R., and Zeiada, W. (2023) “Comprehensive evaluation of multiple machine learning classifiers for predicting freeway incident duration”, *Innovative Infrastructure Solutions*, Vol. 8, No. 177.

Abu Dabous, S., Rashidi, M., Zhu, Z., Alzraiee, H., Mantha, B.R.K., and Alsharqawi, M. (2023) “Automation and artificial intelligence in construction and management of civil infrastructure”, *Frontiers in Built Environment*, Vol. 9, 1155240.

Salim, A.M., Abu Dabous, S. (2023) “A review of critical success factors for solar home system implementation in public housing”, *International Journal of Energy Sector Management*, Vol. 17, No. 2, pp. 352–370

Abu Dabous, S., Shanableh, A., Al-Ruzouq, R., Hosny, F., Khalil, M., (2022) “A spatio-temporal framework for sustainable planning of buildings based on carbon emissions at the city scale”, *Sustainable Cities and Society*, Vol. 82, 103890.

Abu Dabous, S., Zadeh, T., Ibrahim, F. (2022) “A failure mode, effects and criticality analysis-based method for formwork assessment and selection in building construction”, *International Journal of Building Pathology and Adaptation*, (In press).

Abu Dabous, S., Hamad, K., Al-Ruzouq, R., Zeiada, W., Omar, M., Obaid, L., (2022) “A Case-Based Reasoning and Random Forest Framework for Selecting Preventive Maintenance of Flexible Pavement Sections”, *The Baltic Journal of Road and Bridge Engineering* Vol. 17 No. 2, pp. 107-134.

Mushtaha, E., Abu Dabous, S., Alsyouf, I, Ahmed, A., Abdraboh, N., (2022) “The challenges and opportunities of online learning and teaching at engineering and theoretical colleges during the pandemic”, *Ain Shams Engineering Journal*, Vol. 13, No. 6, 101770.

Al-Ruzouq, R., Shanableh, A., Khalil, M.A., Zeiada, W., Hamad, K., Abu Dabous, S., Gibril, M.B., Al-Khayyat, G., Kaloush, K., Al-Mansoori, S., Jena, R., (2022) “Spatial and Temporal Inversion of Land Surface Temperature along Coastal Cities in Arid Regions”, *Remote Sensing*, Vol. 14, No. 8, 1893

Al-Ruzouq, R. Abu Dabous, S. Abueladas, A., Hosny, F., Ibrahim, F., (2022) “Integrated Archaeological Modeling Based on Geomatics Techniques and Ground-Penetrating Radar”, *Remote Sensing*, Vol. 14, No. 7, 1622.

Alsharqawi, M., Abu Dabous, S., Zayed, T., and Hamdan, S., (2021) “Budget optimization of concrete bridge decks under performance-based contract settings”, *ASCE Journal of Construction Engineering and Management*, Vol. 147, No. 6, 04021040.

Feroz, S., Abu Dabous, S., (2021) “UAV-based remote sensing applications for bridge condition assessment”, *Remote Sensing*, 2021, Vol. 13, No. 9, 1809.

Abu Dabous, S., Ibrahim, F., Feroz, S., and Alsyouf, I (2021) “Integration of failure mode, effects, and criticality analysis with multi-criteria decision-making in engineering applications: Part I – Manufacturing industry”, *Engineering Failure Analysis* Vol. 122, 105264.

Abu Dabous, S., Ibrahim, F., Feroz, S., and Alsyouf, I (2021) “Integration of failure mode, effects, and criticality analysis with multi-criteria decision-making in engineering applications: Part II – Non-manufacturing industry”, *Engineering Failure Analysis* Vol. 122, 105296.

Abu Dabous, S., Zeiada, W. Al-Ruzouq, R., Hamad, K, and Al-Khayyat, G. (2021) “Distress-based evidential reasoning method for pavement infrastructure condition assessment and rating”, *International Journal of Pavement Engineering*, Vol. 22, No.4, pp. 455-466.

Abu Dabous, S., and Feroz, S. (2020) “Condition monitoring of bridges with non-contact testing technologies”, *Automation in Construction*, Vol. 116 (2020): 103224.

Abu Dabous, S., Zeiada, W., Zayed, T., and Al-Ruzouq, R. (2020) “Sustainability-informed multi-criteria decision support framework for ranking and prioritization of pavement sections”, *Journal of Cleaner Production*, Vol. 244 No. 118755.

Alsharqawi, M., Zayed, T., and Abu Dabous, S. (2020) “Integrated Condition-Based Rating Model for Sustainable Bridge Management”, *ASCE Journal of Performance of Constructed Facilities* Vol. 34, No. 5, 04020091.

Abu Dabous, S., Al-Khayyat, G., Feroz, S., (2020) “Utility-based road maintenance prioritization method using pavement overall condition rating”, *The Baltic Journal of Road and Bridge Engineering*, Vol. 15, No. 1, pp. 126-146.

Alteneiji, K., Alkass, S., and Abu Dabous, S. (2020) “A review of critical success factors for public–private partnerships in affordable housing”. *International Journal of System Assurance Engineering and Management*, Vol. 11, pp.1192–1203.

Hamad, K., Al-Ruzouq, R., Zeiada, W., Abu Dabous, S., Khalil, M.A. (2020), “Predicting incident duration using random forests”, *Transportmetrica A: Transport Science* Vol. 16, No. 3, pp. 1269-1293

Zeiada, W., Abu Dabous, S., Hamad, K., Al-Ruzouq, R., Khalil, M.A., (2020) “Machine learning for pavement performance modelling in warm climate regions”, *Arabian Journal for Science and Engineering*, Vol. 45, pp. 4091–4109.

Alteneiji, K., Alkass, S., and Abu Dabous, S. (2020) “Critical success factors for public–private partnerships in affordable housing in the United Arab Emirates”, *International Journal of Housing Markets and Analysis*, Vol. 3, No. 5, pp. 753–768.

Al-Ruzouq, R., Hamad, K., Abu Dabous, S., Zeiada, W., Khalil, M.A., Voigt, T., (2019) “Weighted multi-attribute framework to identify freeway incident hot spots in a spatiotemporal context”, *Arabian Journal for Science and Engineering*, Vol. 44, No. 10, pp. 8205-8223

Salim, A. and Abu Dabous, S. (2018) “Quantitative analysis of sustainable housing energy systems based on Estidama pearl rating system”, *International Journal of Green Energy*, Vol. 15 (14-15), pp. 905-917

Abu Dabous, S. and Al-Khayyat, G. (2018) “A flexible bridge rating method based on Analytical Evidential Reasoning and Monte Carlo Simulation”, *Advances in Civil Engineering*, Volume 2018, Article ID 1290632.

Al-Ruzouq, R., Venkatachalam, S., Abueladas, A. and Abu Dabous, S. (2018) “Geomatics for economic archaeological documentation and management”, *Applied Geomatics*, Vol. 10, No. 4, pp. 341-360.

Alsharqawi, M., Zayed, T., and Abu Dabous, S. (2018) “Integrated condition rating and forecasting method for bridge decks using Visual Inspection and Ground Penetrating Radar”, *Automation in Construction*, Vol. 89, pp. 135-145.

Abu Dabous, S., Yaghi, S., Alkass, S., and Moselhi, O. (2017) “Concrete bridge deck condition assessment using IR Thermography and Ground Penetrating Radar technologies”, *Automation in Construction*, Vol. 81, pp. 340-354.

Abu Dabous, S. (2017) “Assessing transition probability of bridge deterioration using Dempster–Shafer theory of evidence”, *Journal of Bridge Structures*, Vol. 12, No. 3-4, pp. 97-106.

Al-Ruzouq, R. and Abu Dabous S. (2017) “Archaeological site information modelling and management based on close range photogrammetry and GIS”, *Conservation & Management of Archaeological Sites*, Vol. 19, No. 3, pp. 156-172.

Abu Dabous, S., Hamad, K., and Al-Ruzouq, R. (2016) “Defect-Based Urgency Index for Bridge Maintenance Ranking and Prioritization”. World Academy of Science, Engineering and Technology, *International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering*, Vol. 10, Issue 5

Yaghi, S. and Abu Dabous, S. (2015) “State-of-the Art Practices in Bridge Inspection”. World Academy of Science, Engineering and Technology, International Science Index, *International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering*, Vol. 2, No. 10, pp. 1232-1235

Moufti, S. A., T. Zayed, and Abu Dabous S. (2014) “Defect-Based Condition Assessment of Concrete Bridges Fuzzy Hierarchical Evidential Reasoning Approach”, *Journal of the Transportation Research Board*, Vol. 2431, pp. 88-96.

Yehia, S., Abdelfatah and Abu Dabous, S. (2012) “A Conceptual Framework for a Bridge Management System for UAE”, *Journal of Bridge Structures*, Vol. 8, No. 2, pp. 67-79.

Abu Dabous S. and Alkass S. (2011) “Allocating Budget for Bridge Management: A Decision Support Methodology”, *Canadian Journal of Civil Engineering*, Vol. 38, No. 11, pp. 1227-1237. **AWARD WINNER.**

Abu Dabous S. and Alkass S. (2010). “A multi-attribute ranking method for bridge management,” *Engineering, Construction and Architectural Management*, Vol. 17, No. 3, pp. 282-291.

Abu Dabous S., Alkass S. and Zaki, A. (2008). “A Probabilistic Methodology for Bridge Deck Condition Assessment,” *Journal of Bridge Structures*, Vol. 4, No. 1, pp. 49-56.

Abu Dabous S. and Alkass S. (2008). “Decision Support Method for Multi-Criteria Selection of Bridge Rehabilitation Strategy,” *Construction Management and Economics Journal*, Vol. 26, No. 8, pp. 883-893.

CONFERENCE PAPERS:

Sati, A., Hamad, K., Abu Dabous, S., “International Roughness Index Modeling utilizing Adaptive Neuro-Fuzzy Inference System (ANFIS)” (2023) Advances in Science and Engineering Technology International Conferences (ASET), IEEE, Dubai, UAE.

Sati, A., Abu Dabous, S., Hissam T., “A Markovian-Genetic Algorithm Model for Predicting Pavement Deterioration” (2023) 2nd International Conference on Civil Infrastructure and Construction (CIC 2023), Doha, Qatar.

Mostafa, O., Elbaz, Y., Alotaibi, E., Abu Dabous, S., Mantha, R., “Investigating the Scaling Effect of 3D-Printed Synthetic Hollow Section Beams” (2022) Advances in Science and Engineering Technology International Conferences (ASET), IEEE, Dubai, UAE.

Salim, A.M., Abu Dabous, S., (2022) “A model for solar home system assessment in public housing projects in the United Arab Emirates”, Advances in Science and Engineering Technology International Conferences (ASET), IEEE, Dubai, UAE.

Salim, A.M., Abu Dabous, S., (2022) “SWOT analysis of solar photovoltaic systems in public housing projects in the United Arab Emirates”, *Advances in Science and Engineering Technology International Conferences (ASET)*, IEEE, Dubai, UAE.

Hosny, F., Abu Dabous, S., (2022) “A Framework for Concrete Mixture Selection Based on Life Cycle Cost (LCC)” *Advances in Science and Engineering Technology International Conferences (ASET)*, IEEE, Dubai, UAE.

Hosny, F., Abu Dabous, S., Shanableh, A., Al-Ruzouq, R. (2021) “A Spatio-Temporal Framework Based on Geographic Information System (GIS) to Evaluate the Emissions”, 14th International Conference on Developments in eSystems Engineering (DeSE), IEEE, Sharjah, UAE.

Sati, A., Mantha, R.K. Abu Dabous, S., Soto, B., (2022), “Classification of Robotic 3D Printers in the AEC Industry”, *Proceedings of the International Symposium on Automation and Robotics in Construction*, Vol. 38, Dubai, UAE.

Abu Dabous, S., (2020) “Fuzzy-based method to account for subjectivity and uncertainty in bridge condition assessments”, *ASCE, Construction Research Congress (CRC2020)*, Arizona, USA.

AlGeelani, A., Abu Dabous, S., and Venkatachalam, S. (2020) “Investigation of Project Delivery Risks in Public-Private-Partnership (PPP) Infrastructure Projects in UAE - A Stakeholder's Perspective”, *Advances in Science and Engineering Technology International Conferences (ASET)*, Dubai, UAE 4-6 February 2020

Almasri, A., Chamieh, A., Alozi, A., and Abu Dabous, S. (2020) “Comparative Analysis Between UAE, UN, and the European Commission Guidelines for the Public Private Partnership”, *Advances in Science and Engineering Technology International Conferences (ASET) Dubai, UAE*, 4-6 February 2020

Ibrahim, F., Abu Dabous, S. and Alsyouf, I. (2020) “Bridge Risk Assessment using Integrated Failure Mode, Effects, and Criticality Analysis and VIKOR Approach”, *Advances in Science and Engineering Technology International Conferences (ASET)*, Dubai, UAE, 4-6 February 2020.

Sati, A.S., Abu Dabous, S., and Zeiada, W. (2020) “Pavement Deterioration Model Using Markov Chain and International Roughness Index”, *IOP Conference Series: Materials Science and Engineering* 812(1),012012.

Abuseem, A. and Abu Dabous, S., (2019) “Multicriteria Method to Prioritize Existing Roundabouts for Improvement in the Emirate of Sharjah in the United Arab Emirates”, *Transportation Research Board 98th Annual Meeting*

Alsharqawi, M., Zayed, T. and Abu Dabous, S., (2018) “A Clustering-Based Model for Rating Concrete Bridges Using k-Means Technique”, *CSCCE 2018 Annual Conference*, Fredericton, Canada.

Alsharqawi, M., Zayed, T. and Abu Dabous, S., (2018) “Optimizing Rehabilitation Strategies for Bridge Decks under Performance-Based Contracting Setting”, *International Conference on Bridge Maintenance, Safety and Management*, Melbourne, Victoria, Australia.

Alshaaer, A., Abu Dabous, S., Venkatachalam, S. (2018) “A Study on the factors affecting masonry and plaster productivity in UAE construction industry”, *The International Conference on Civil and Infrastructure Engineering*, Ras Al-Khaimah, UAE.

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REVIEW ACTIVITIES:

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- TRB Annual Conference
- International Journal of Information Technology & Decision Making
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- The Canadian Society for Civil Engineering 2008 annual conference
- Innovation for Reshaping Construction Practices, Construction Research Congress
- 38th International Symposium on Automation and Robotics in Construction (ISARC) – Dubai, UAE