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EDUCATION

Ph.D., Civil Engineering, University of Delaware, USA, 2004

Dissertation: Hybrid Empirical Mode Decomposition Neuro Model for Short-Term Travel Time Prediction on Freeways

M.Sc., Civil Engineering, University of Delaware, USA, 2000

Thesis: An Innovative Methodology for Vehicular Traffic Demand Forecasting in Developing Countries

B.Eng., Civil Engineering, An-Najah National University, Palestine, 1996

Senior Project: Establishing a Road Monitoring Program for Pavement Maintenance Purposes for the Palestinian Territories

EXPERIENCE

Teaching Experience

Associate Professor, University of Sharjah, Sharjah, July 2017 – Now

Assistant Professor, University of Sharjah, Sharjah, September 2009 – July 2017

Assistant Professor, University College of Applied Sciences-Gaza, Jan. 2008 – Sep. 2009

Adjunct Professor, Islamic University of Gaza, September 2007 - September 2009

Adjunct Professor, University of Palestine, September 2007 - January 2008

Teaching Assistant, University of Delaware, September 2000 - May 2004

Assistant Instructor, Islamic University of Gaza, March 1996 - July 1998

Administrative Experience

Graduate Studies Coordinator, Department of Civil & Environmental Engineering, University of Sharjah, September 2017 - Now

Associate Chair for Academics, Department of Civil & Environmental Engineering,
University of Sharjah, February 2016-August 2017

Assistant-to-Chairman, Department of Civil & Environmental Engineering, University of
Sharjah, September 2010-August 2014

Coordinator and Founder, Traffic and Highway Safety Institute, University of Sharjah,
September 2012-September 2014

Acting Dean, College of Engineering, University of Sharjah, Summer 2013-2014 and
Summer 2009-2010

Assistant Vice Dean for Academic Affairs, University College of Applied Sciences-Gaza,
January 2008-September 2009

Research Experience

Co-founding Member, Sustainable Civil Infrastructure Systems Research Group, University
of Sharjah, Spring 2015 - Now.

Coordinator & Founder, Traffic and Highway Safety Institute, University of Sharjah,
University of Sharjah, 2012 - 2014.

Assistant Research Scientist, Infrastructure Management Program, Texas A&M
Transportation Institute, June 2004 – July 2007

Graduate Research Assistant, Delaware Center for Transportation, University of Delaware,
September 1998 - May 2004

Professional Experience

Senior Transportation and Geomatics Specialist, Consultant Engineer, Engineering and
Management Consulting Center (EMCC), Gaza, March 2009 – January 2010

Civil Engineer Intern, Delaware Department of Transportation, June 2003 - August 2003

Consulting Engineer, Universal Group for Consulting and Engineering, Gaza, Gaza Strip,
July 1996 - July 1998

SELECTED UNIVERSITY SERVICES

Institution	Committee	Role	Period
University of Sharjah	University Committee Information Technology Governance Committee	Member	September 2020 -Now
	University Committee to Propose Alternative Solutions to Examining and Grading Students under Extraordinary Situation of Spring 2019-2020	Member	April 2020-May 2020
	University Committee to Revise Academic Policies & Procedures in the University of Sharjah	Member	November 2019-December 2019
	University Committee to Complete Application Required for Sustainability	Member	December 2019 -Now

	Tracking, Assessment, and Rating System (STARS)		
	University Transportation Sustainability Circle	Leader	February 2019 -Now
	University Committee to Apply for UI GreenMetric World University Rankings on Sustainability	Member	September 2017-Now
	University Committee for Enhancing Learning Environment at University of Sharjah	Member	November 2018-Now
	Executive Board of Institute of Leadership in Higher Education (ILHE)	Member	September 2018-Now
	Ad-hoc University Committee to Apply for Dubai's Road Transport Authority Award for Sustainable Transport - Best Academic Institution Supportive of Sustainability	Chair	November 2018
	College of Engineering Accreditation Committee	Chair	September 2018-Now
	CEE Department Accreditation Committee	Chair	December 2018-Now
	Committee for Accreditation of BSc in Water Desalination Engineering	Chair	September 2018- Now
	CEE Master's Program	Coordinator	September 2017- Now
	CEE Department Strategic Planning Committee	Member	November 2018- Now
	College of Engineering Graduate Studies Committee	Member	September 2018 – Now
	University Committee for Strategic Champions of Teaching and Learning	Member	March 2019- October 2019
	University Committee to Update University of Sharjah's Faculty Handbook	Chair	March 2018 - May 2018
	College of Engineering Teaching Load Reduction Committee	Member	February 2018 - March 2018
	College of Engineering Strategic Programs Review Committee	Member	November 2017 – March 2018
	College of Engineering Graduate Studies & Research Committee	Member	September 2017 – August 2018
	CEE Department Graduate Studies Committee	Chair	September 2017 - Now
	University Committee for Road Safety	Chair	May 2017 – November 2017

	College of Engineering ABET Accreditation Committee	CEE Representative	February 2016- November 2016
	University Campus Sustainability Committee	Member, Chair of Sustainable Transport sub-committee	October 2016- September 2017
	College of Engineering Teaching & Learning Committee	CEE Representative	September 2016-August 2017
	College of Engineering Council	Elected Member/CEE Representative	September 2015- August 2017
	CEE Department Undergraduate Program Committee	Chair	September 2016- August 2017
	University Committee to Prepare Campus for People with Disabilities	Member	Spring 16- Now
	College of Engineering Research Committee	Member	2014-15
	College of Engineering Accreditation Committee	Member	2013-14
	CEE Department Committee for Selecting New Faculty	Chair/Co-chair	2011-15
	CEE Department Committee for Outreach & Community Service	Chair	2014-16
	College of Engineering Student Disciplinary Committee	Member	2012-13
	Teaching and Learning Department Committee	Member	2011-15
	Traffic and Highway Safety Institute, University of Sharjah	Founder and Coordinator	2012-14
	CEE Department Committee for Laboratories and Commercial Testing	Member	2010-14
	CEE Department Committee for Research & Graduate Studies	Member	2010-15
University College of Applied Sciences-Gaza	Developing a Master Plan for New Campus	Chair	2008-09
	Drafting Basic Bylaws and Faculty Bylaws	Chair	2008-09
	Committees for Hiring New Faculty	Chair	2008-09
	Committee for Revising University Requirements	Chair	2008-09

TEACHING AND LEARNING

Accreditation Experience

Institution	Committee	Role	Period
University of Sharjah	College of Engineering Committee for Full Accreditation of PhD in Engineering Management Program	Member	November 2020-Now
	College of Engineering Accreditation Committee	Chair	September 2018- August 2020
	UAE Commission for Academic Accreditation's Full Accreditation of Civil Engineering Master's Program	Chair	November 2018-July 2019
	UAE Commission for Academic Accreditation's Full Accreditation of Civil Engineering Bachelor Program	Chair	November 2018- July 2019
	Ad-hoc Accreditation Committee for BSc in Water Desalination Engineering	Chair	September 2018- January 2019
	Vice-Chancellor of Research & Graduate Studies' Committee to Prepare a master's degree in Geographic Information Systems & Remote Sensing	Member	Spring 2016 - Spring 2018
	ABET Accreditation Committee – College of Engineering	CEE Department Representative	Spring 2015-16 to Fall 2016-17
	ABET Accreditation Committee – Department of Civil & Environmental Engineering	Co-chair	Fall 2015-16 to Fall 2016-17
	UAE Commission for Academic Accreditation's Initial Accreditation of Civil Engineering, Ph.D. Program	Member	2015-16 to 2018-19
	University of Sharjah Accreditation Application for Southern Association of Colleges and Schools (SACS)	Task Force	2015-16
	UAE Commission for Academic Accreditation's Re-Accreditation of Civil Engineering Undergraduate Program	Member	2013-14
	UAE Commission for Academic Accreditation's Full Accreditation of Civil Engineering Master's Program	Member	2013-14
	UAE Commission for Academic Accreditation's Initial Accreditation of Diploma in Building Construction and	Coordinator	2013-14

	Diploma in Surveying at Community College		
	College of Engineering Preparation for Southern Association of Colleges and Schools (SACS) Accreditation Committee	Member	Spring 2012
	ABET Initial Accreditation Committee – Department of Civil & Environmental Engineering	Member	2010-11
University College of Applied Sciences-Gaza	Accreditation Committees of Six Bachelor's degree programs: Geographic Information Systems, Building Construction Engineering, Development Planning, Technology Education, Technology Management, and Contemporary Islamic Preaching	Chair	2007-09
Islamic University of Gaza	Accreditation Committee of Bachelor's in Geomatics Engineering	Member	2008-09
University of Palestine	Accreditation Committee of Bachelor's in Civil Engineering & Geomatics	Member	2007-09

Teaching Experience

Institution	Course	Level	Period
University of Sharjah	Soft Computing Applications in Civil Engineering	Graduate (Ph.D.)	Sp20-21, Fa19-20
	Intelligent Transportation Systems	Graduate (MSc)	Fa20-21, Sp15-16, Fa18-19
	Applied Traffic Operations	Graduate (MSc)	Sp16-17
	Advanced Topics in Transportation	Graduate (MSc)	Fa12-13
	Transportation Engineering	Undergraduate	Sp20-21, Fa20-21, Sp 9-20, Fa19-20, Sp18-19, Fa18-19, Sp17-18, Fa17-18, Sp16-17, Fa16-17, Sp15-16, Fa15-16, Sp14-15, Fa14-15, Sp13-14, Fa13-14, Su12-13, Fa12-13, Su11-12, Fa11-12, Sp10-11, Fa10-11, Sp 09-10, Fa09-10
	Highway Design	Undergraduate	Sp14-15, Fa14-15, Sp13-14, Fa13-14, Sp12-13, Fa12-13, Fa11-12
	Traffic Systems Design	Undergraduate	Fa19-20, Sp11-12, Sp10-11

	Senior Design Project I and II (Coordinator)	Undergraduate	Sp14-15, Fa14-15, Sp13-14, Fa13-14, Sp11-12, Fa11-12, Fa10-11, Sp 09-10
	Engineering Economics	Undergraduate	Sp20-21, Su 19-20, Sp 9-20, Su18-19, Su17-18, Sp17-18, Fa17-18, Su16-17, Fa16-17, Su15-16, Fa15-16, Su14-15, Su13-14, Sp12-13, Su11-12, Su10-11, Su09-10
	Surveying	Undergraduate	Sp11-12, Sp10-11, Fa10-11, Sp 09-10, Fa09-10
	Special Topics in Transportation	Undergraduate	Fa10-11, Fa 09-10
	Transportation & Environment	Undergraduate	Sp11-12
University College of Applied Sciences	GIS Programming and Customization	Undergraduate	Fa 08-09
	Digital Geographic Applications	Undergraduate	Fa 07-08, Fa 08-09
Islamic University of Gaza	Engineering Economy	Undergraduate	Sp 08-09, Fa 08-09, Sp 07-08, Fa 07-08
	Geographic Information Systems	Graduate (MSc)	Sp 08-09
University of Palestine	Transportation Engineering	Undergraduate	Fa 07-08
	Statistics for Managers	Graduate (MSc)	Fa 07-08
University of Delaware	Teaching Assistant for the following courses: Intro to Civil Engineering and Civil Engineering Systems	Undergraduate	2000 - 2004

Professional Training Courses Delivered

1. 20-hour Training Program on Transportation Planning for the Sharjah Department of Planning and Land. Conducted via Center for Continuing Education and Community Service, University of Sharjah, Sharjah, UAE – February 2018
2. Workshop to train about 100 employees of Dubai Road & Transport Authority on how to conduct scientific research, Dubai, UAE – July 2016 & November 2017
3. Capacity Building Workshop to train over 800 university and high-school participants every year to prepare them for Emirates Foundation's Think Science Competition, Dubai and Abu Dhabi, UAE – 2013, 2014, 2015, 2016, 2017, and 2018

4. Workshop to train over 60 selected professionals from academia and industry on judging Emirates Foundation's Think Science Competition, Dubai, UAE – 2012, 2013, 2014, 2015, 2016, and 2017
5. Workshop to train over 70 selected professionals from academia and industry on judging Intel Science Competition-Arab World, Amman, Jordan, 2013
6. Workshop to train over 70 selected professionals from academia and industry on judging Intel Science Competition-Arab World, Dubai, UAE, 2012
7. Highway Design & Safety for Al-Ain Municipality. Conducted via Center for Continuing Education and Community Service, University of Sharjah, Sharjah, UAE – November 2015
8. Highway Design & Safety and Traffic Design & Management. Prepared for Abu Dhabi Traffic Police, Abu Dhabi, UAE – 2013
9. TxDOT - Utility Installation Request System. Conducted for several districts of Texas Department of Transportation, Texas, USA – 2007

SUPERVISION OF GRADUATE STUDENTS

Supervised/Co-supervised

Institution	Student	Title	Thesis/ Dissertation	Date Completed
University of Sharjah	Fahmieh Lotfi	Developing an Artificial Neural Network Mode-Choice Model for Sharjah University City, United Arab Emirates	Master's Thesis (Supervisor)	Ongoing
	AlAnoud Al-maazmi	Severity Analysis of Sharjah Crashes Using Machine Learning Techniques	Master's Thesis (Supervisor)	Ongoing
	Dina Al-Ani	Comprehensive Safety Evaluation of Roundabouts in Sharjah	Master's Thesis (Supervisor)	Ongoing
	Ala G. Ibrahim	Characterization of Truck Traffic toward the Implementation of Mechanistic-Empirical Pavement Design Guide in Sharjah	Master's Thesis (Co-supervised with Dr. Waleed Zeiada)	May 2020
	Lubna Obaid	Forecasting Travel Demand at Sharjah University City	Master's Thesis (Supervisor)	December 2019
	Abdul Razak Alozi	Quantifying the Impacts of Connected and Autonomous Vehicles on Traffic Operation and Greenhouse Gas	Master's Thesis (Supervisor)	May 2019

		Emissions Using Micro-Simulation		
Abdulsalam Birawi		Analysis and Prediction of Traffic Fatalities in Dubai	Master's Thesis (Co-supervised with Dr. Muamer Abuzwidah)	May 2019
Lina Shakfa		Development of a Green Pavement Rating System for UAE Roads	Master's Thesis (Co-supervised with Dr. Waleed Zeiada)	March 2018
Eslam Al-Ali		Comparing the Performance of Artificial Neural Networks and Random Forests Models for Predicting Incident Duration	Master's Thesis (Main Supervisor)	December 2017
Abdou Lkarim Ismail		Evaluating Operational and Safety Performance of Directional Interchange with Semi-Direct Ramp Connections and Loops	Master's Thesis (Supervisor)	July 2017
Mariam Al-Hmoudi		Evaluation and Modeling of Pedestrian Safety in the Emirate of Sharjah, UAE	Master's Thesis (Co-supervised with Dr. Muamer Abuzwidah)	January 2017
Mohamad Ali Khalil		Predictive Models for Free Field Road Traffic Noise in Sharjah City United Arab Emirates	Master's Thesis (Main Supervisor)	January 2016
Noor Al Majdalawi		Calibration of Gap Acceptance Based Roundabout Capacity Models Using Locally Measured Parameters in Sharjah	Master's Research Project (Supervisor)	January 2015
Shiekha Alzuwain,		Multi-Objective Vehicle and HAZMAT Routings Problem Based on Community Judgment Sharjah City as A Case Study	Master's Research Project (Co-supervised with Prof. Abdullah Shanableh)	January 2015
Hassan Abu Hamda		Estimating Base Saturation Flow Rate and U-Turn and Left-Turn Adjustment Factors for Selected Signalized Intersections in Doha, Qatar	Master's Thesis (Supervisor)	January 2015
Rulla Raad		Fuzzy logic Risk-based Framework for HAZMAT Routing	Master's Thesis (Main Supervisor)	January 2015

	Iyad Sahaboon	Multi-Objective Comprehensive Risk-Based Vehicle Routing Analysis Framework Sharjah City as a Case Study	Master's Thesis (Main Supervisor)	May 2014
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RESEARCH PROJECTS, GRANTS, AND FUNDS

Project	Researchers	Funding Type	Granting Institution	Date
Assessment of COVID-19 Lockdown on Air Pollution in the UAE Using Satellite and Ground Monitoring and Potential Impacts on Human Health	A. Shnableh (P.I.), R. Al-Ruzouq, and K. Hamad	Collaborative Research Grant (230,000 AED)	Sciences and Engineering Research Institute (RISE)	June 2020
The COVID-19 and Swift Transition to the Virtual Learning Environment: Opportunities and Challenges in Higher Education Context	Semiyu Aderibigbe (PI), Maher Omar, A. Shnableh, Hussein ElMehdi, Khaled Hamad	Collaborative Research Grant (155,800 AED)	University of Sharjah	June 2020
Empirical Investigation of Visual Factors Affecting the Legibility of Arabic Highway Signs	Shaima Elbardawil (P.I.) and Khaled Hamad	Competitive Research Grant (80,000 AED)	Sciences and Engineering Research Institute (RISE)	Feb. 2020 Under Review
Potential Impact of Climate Change on Traffic Safety and Transportation System Performance in the UAE	Muamer Abuzwidah (P.I.), W Zeiada, K Hamad	Research Grant (185,000 AED)	UAE Ministry of Infrastructure Development	April 2019
Developing Travel Demand Forecasting Model for Sustainable Sharjah University City	K Hamad (P.I.), Muamer Abuzwidah, and Emad Mushtaha	Competitive Research Grant (80,000 AED)	Sharjah Research Academy	April 2018
Quieter Pavement Solutions for UAE Highways	W Zeiada (PI), K Hamad (Co-PI), A Shnableh, and R Al-Ruzouq		Sciences and Engineering Research Institute (RISE)	Pending
Multi-Temporal Satellite Remote Sensing Assessment and Change Detection of Urban Heat Island in Sharjah City	R Al-Ruzouq (PI), A Shnableh, W Zeiada, and K Hamad		Sciences and Engineering Research Institute (RISE)	2017

Modeling and Mapping of Road Traffic Noise in Sharjah City	K Hamad (P.I.), A Shnableh, R Al-Ruzouq, and H El-Mehdi	Collaborative Research Grant (150,000 AED)	University of Sharjah	November 2015 – May 2017
Quality Assurance in Engineering Education and Programs Linkages between University of Sharjah, UAE and Royal Institute of Technology, Sweden	A. Shanableh (P.I.), M. Bettayeb, M. Omar, K. Hamad	Competitive International Grant	European Union	October 2015- May 2017
Evaluation of Roads and Parking Design to Improve Traffic Safety and Operation at University City of Sharjah	Muamer Abuzwidah (P.I.) and K Hamad	Seed Research Grant	University of Sharjah	April 2016 – Now
Decision Support System for Condition Assessment of Transportation Infrastructure in the UAE	S Abu Dabous (P.I.), W Zeiada, K Hamad	Seed Research Grant	University of Sharjah	May 2015 – Now
Development of Weather, Soil, Traffic Database for the Implementation of Mechanistic-Empirical Pavement Design in Sharjah	W Zeiada (PI), T Merabtene, M Omar, K Hamad	Seed Research Grant	University of Sharjah	January 2015 – Now
Developing a Decision-support Tool for Evaluation of Roundabouts in UAE	K Hamad (P.I.)	Seed Research Grant	University of Sharjah	January 2010 – January 2012
Data Model and Guidelines for Managing Engineering Design Data in a GIS Environment	Cesar Quiroga (PI), K Hamad, et al.	Competitive Research Grant	FHWA/TxDOT 0-5246	September 2005 – August 2007
Using Archived ITS Data and Spatial Statistics for Optimizing Incident Response at Transportation Management Centers	Cesar Quiroga (PI), K Hamad, et al.	Competitive Research Grant	FHWA/TxDOT 0-4745	September 2005 – August 2007
Strategies for Managing Transportation Operations Data	Cesar Quiroga (PI), K Hamad, et al.	Competitive Research Grant	FHWA/TxDOT 0-5257	September 2003 – August 2005
GIS-Based Inventory of Utilities	Cesar Quiroga (P.I.), Edgar Kraus, and K Hamad	Implementation Research Grant	FHWA/TxDOT 5-2110-01	September 2003 – August 2006

GIS-based Recycling Routes	A Faghri (P.I.), Malcolm, K. Hamad, S Chattopadhyay	Research Grant	Delaware Solid Waste Authority	September 2002 – August 2003
Application of Global Positioning System (GPS) to Travel Time and Delay Measurements	A Faghri (PI), K. Hamad, et al.	Implementation Research Grant	Delaware Department of Transportation	September 2000 – August 2004

PUBLICATIONS

Peer-Reviewed Journal Papers

1. Khaled **Hamad**. Using Traffic Simulation to Quantify Performance Improvement Due to Vehicular Traffic Reduction at a University Campus. *International Journal of Simulation and Process Modelling*. Vol. 15, No. 3, pp. 295-307, May 2020.
2. K. **Hamad**, M. A. Khalil, and A. R. Alozi. Predicting Freeway Incident Duration Using Machine Learning. *International Journal of Intelligent Transportation Systems Research*. Springer. Vol. 18, pages 367–380, April 2020.
3. K. **Hamad**, R. Al-Ruzouq, W. Zeiada, S. Abu Dabous, and M. A. Khalil. Predicting Incident Duration Using Random Forests. *Transportmetrica A: Transport Science*, Taylor & Francis (ISSN: 2324-9935). Vol. 16, No. 3, pp. 1269-1293, February 2020.
4. W. Zeiada, S. Abu Dabous, K. Hamad, R. Al-Ruzouq, and M. A. Khalil. Machine Learning for Pavement Performance Modelling in Warm Climate Regions. *Arabian Journal for Science and Engineering*, Accepted for Publication, February 2020.
5. K. **Hamad** and A. Ismail. Evaluating Traffic Operations Performance of Directional Interchange with Semi-Direct Ramp Connections and Loops. *Canadian Journal of Civil Engineering*, 47(4): 450-460, 2020.
6. Maher Omar, Abdallah Shanableh, Khaled **Hamad**, Ali Tahmaz, Mohamed G. Arab, and Zaid Al-Sadoon. Nomographs for predicting allowable bearing capacity and elastic settlement of shallow foundation on granular soil. *Arabian Journal of Geosciences*, 12:485, August 2019.
7. S. Abu Dabous, W. Zeiada, K. **Hamad**, R. Al-Ruzouq, and G. Al-Khayyat. Distress-Based Evidential Reasoning Method for Pavement Infrastructure Condition Assessment and Rating. *International Journal of Pavement Engineering*, Taylor & Francis, Published Online May 2019.
8. R. Al-Ruzouq, K. **Hamad**, W. Zeiada, S. Abu Dabous, and M. A. Khalil. Weighted Multi-Attribute Framework to Identify Freeway Incident Hot-Spots in a Spatio-Temporal Context. *Arabian Journal for Science and Engineering*, Vol. 44, pp. 8205–8223, Springer, September 2019.
9. M. A. Khalil, K. **Hamad**, and A. Shanableh. Developing Machine Learning Models to Predict Roadway Traffic Noise: An Opportunity to Escape Conventional

Techniques. *Transportation Research Record: Journal of the Transportation Research Board*, Volume: 2673, issue: 4, page(s): 158-172, SAGE, April 2019.

10. W. Zeiada, K. **Hamad**, M. Omar, B. S. Underwood, M. A. Khalil, and A. Karzad. Investigation and Modeling of Asphalt Pavement Performance in Cold Regions. *International Journal of Pavement Engineering*. Taylor & Francis (ISSN: 1029-8436). Vol. 20, No. 8, pp. 986-997, May 2019.
11. Maher Omar, Abdallah Shanableh, Mohamed Arab, Khaled **Hamad**, Ali Tahmaz. Advanced Mathematical Models to Predict the Compaction Properties of Coarse-Grained Soils from Various Physical Properties. *Geotechnical and Geological Engineering Journal*. Volume 36, Issue 6, pp 3467–3483, December 2018.
12. Maher Omar, Khaled **Hamad**, Mey Al Suwaidi, Abdallah Shanableh. Developing Artificial-Neural-Network Models to Predict Allowable Bearing Capacity and Elastic Settlement of Shallow Foundation in Sharjah, United Arab Emirates. *Arabian Journal of Geosciences*, 11:464, August 2018.
13. K. **Hamad**, A. Shanableh, and I. Sahnoun. Multi-Objective, Risk-Based Approach for Safe and Sustainable Vehicle Routing. *Advances in Transportation Studies - An International Journal Section A* (ISSN: 18245463), Vol. 45, pp. 5–20, July 2018.
14. A. Shanableh, M. Imteaz, K. **Hamad**, M. Omar, T. Merabtene, M. Siddiqi. Potential Impact of Global Warming on Whiting in a Semi-Enclosed Gulf. *International Journal of Global Warming* (ISSN: 1758-2083), Vol. 13, Issue 3/4, 2017.
15. R. Al-Ruzouq, K. **Hamad**, A. Shanableh, and M. A. Khalil. Infrastructure Growth Assessment of Urban Areas Based on Multi-Temporal Satellite Images and Linear Features. *Annals of GIS*. Taylor & Francis (ISSN: 19475691). Vol. 23, No. 3, pp. 183-201, July 2017.
16. K. **Hamad**, M. A. Khalil, and A. Shanableh. Modeling roadway traffic noise in a hot climate using artificial neural networks. *Transportation Research Part D: Transport & Environment* (ISSN: 13619209). Volume 53, Pages 161–177, June 2017.
17. R. Saad, K. **Hamad**, A. Shanableh, W. Radeef. GIS Risk-Based Routes for Hazardous Shipments by Roads. *Journal of Traffic and Logistics Engineering* (ISSN: 2301-3680), Vol. 5, No. 1, pp. 30-34, June 2017.
18. K. **Hamad**, M. A. Khalil, and A. Shanableh. Developing free-field roadway traffic noise predictive model for Sharjah City, United Arab Emirates. *Advances in Transportation Studies - An International Journal Section B* (ISSN: 18245463), Vol. 40, pp. 69 –86, November 2016.
19. K. **Hamad**. Road Traffic Accidents Trends in Sharjah, the United Arab Emirates during 2001-2014. *International Journal of Vehicle Safety* (ISSN: 1479-3105). Vol. 9, No. 1, pp.24–38, June 2016.
20. I. Sahnoun, A. Shanableh, and K. **Hamad**. Risk-Based GIS Model for Hazardous Materials (HAZMAT) Routing in Sharjah, the United Arab Emirates as a Case Study. *International Journal of Sustainable Society* (ISSN: 1756-2538), Vol. 8, No. 2, pp. 96 –108, June 2016.

21. Abu Dabous, S., K. **Hamad**, R. Al-Ruzouq. Defect-Based Urgency Index for Bridge Maintenance Ranking and Prioritization. *International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering*, Vol. 10, No. 5, pp. 582 –586, April 2016.
22. **Hamad**, K. and C. Quiroga. Geovisualization of Archived ITS Data-Case Studies. *Journal of IEEE Transactions on Intelligent Transportation Systems* (ISSN: 1524-9050), Vol. 17, Issue 1, pp. 104 –112, Jan. 2016.
23. K. **Hamad** and H. Abuhamda. Estimating Base Saturation Flow Rate for Selected Signalized Intersections in Doha, Qatar. *Journal of Traffic and Logistics Engineering* (ISSN: 2301-3680), Vol. 3, No. 2, pp. 168-171, December 2015.
24. **Hamad**, K. Quality Control of Archived Intelligent Transportation Systems Data. *International Journal for Traffic and Transport Engineering* (ISSN: 2217-5652), Vol. 5, No. 3, pp. 238-251, September 2015.
25. K. **Hamad**, Ardeshir Faghri, Mingxin Li. Forecasting Model for Vehicular Demand: An Alternative Methodology in the Context of Developing Countries. *The Journal of Developing Areas* (ISSN: 0022-037X), Volume 49, Number 2, pp. 125-143, Spring 2015.
26. M. Omar, A. Shanableh, M. Balwan, M.Y. Fattah, and K. **Hamad**, "Influence of Local Soil Conditions on Ground Response - Site Amplification Sharjah, United Arab Emirates', *International Journal of Modern Engineering (IJME)* (ISSN: 2157-8052), Vol. 13, No. 2, pp. 34-40, Spring 2013.
27. K. **Hamad** and M. Omar, "Evaluation of Texas Incident Detection Algorithm after Years of Implementation", *Journal of Traffic and Logistics Engineering* (ISSN: 2301-3680), Vol. 1, No. 2, pp. 249-253, December 2013.
28. M. Tabatabaie S. M. Kermanshah, A. R. Mamdoohi, A. Faghri, and K. **Hamad**, "A Mathematical Optimization Model for Locating Telecenters", *Journal of Applied Mathematics* (ISSN: 2152-7385), Vol.3 No.3, pp. 251-263, March 2012.
29. K. **Hamad**, Morteza Tabatabaie Shourijeh, Earl Lee, Ardeshir Faghri. Short-Term Travel Time Prediction Using Hybrid Empirical Mode Decomposition Neural Networks. *Journal of Computer-Aided Civil and Infrastructure Engineering* (ISSN: 2152-7385), Vol. 24, No. 8, pp. 551–576, September 2009.
30. C.A. Quiroga, R.J. Pina, K. **Hamad**, and E. Kraus. Intelligent Transportation System Spatial Data Modeling. *Transportation Research Record: Journal of the Transportation Research Board*. Vol. 1972, pp. 94–104, January 2006.
31. K. **Hamad**, R. Nanda, A. Faghri. A Behavioral Component Analysis of Route Guidance Systems Using Neural Networks. *Journal of Computer-Aided Civil and Infrastructure Engineering*, Vol. 18, No. 6, pp. 440–453, November 2003.
32. A. Faghri, K. **Hamad**, M. Duross. Application of GIS and GPS for Collecting and Analyzing Travel Time, Speed, and Delay. *Scientia Iranica - an International Journal of Science and Technology, I.R. Iran*, Vol. 10, No. 2, pp. 153-163, April 2003.

33. K. **Hamad**, S. Kikuchi. Developing a Measure of Traffic Congestion: A Fuzzy Inference Approach. *Transportation Research Record: Journal of Transportation Research Board*, Vol. 1802, pp. 77-85, November 2002.
34. A. Faghri, K. **Hamad**. Travel Time, Speed, and Delay Analysis using an Integrated GIS/GPS System. *Canadian Journal of Civil Engineering*, Vol. 29, No. 2. pp. 325-328. April 2002.
35. A. Faghri, A. Lang, K. **Hamad**, H. Henck. An Integrated Knowledge-Based Geographic Information System for Determining Optimal Location of Park-and-ride Facilities. *ASCE Journal of Urban Planning and Development*, Vol. 128, No. 1, pp. 18-41, March 2002.
36. A. Faghri, K. **Hamad**. Application of GPS in Traffic Management Systems. *Journal of GPS Solutions*, Vol. 5, No. 3, pp. 52-60, February 2002.
37. A. Faghri, R. Nanda, K. **Hamad**. Development of a Dynamic Traffic Simulation Model in a Near System Optimal Route Guidance System. *Journal of Civil Engineering and Environmental Systems*, Vol. 19, No. 2, pp. 141-167. March 2001.

Edited Books

38. *Advances in Engineering Education*. A. Shanableh, K. **Hamad**, M. Omar, and M. Bettayeb (Eds). ISBN 978-9948-24-127-0. University of Sharjah, 2018.
39. *MATEC Web of Conferences, Volume 120 (2017), International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17)*, Sharjah, United Arab Emirates, April 18-20, 2017, A. Shanableh, M. Maalej, S. Barakat, M. Omar, S. Al-Toubat, R. Al-Ruzouq and K. **Hamad** (Eds); ISBN 2261236X.
40. *Quality Assurance in Engineering Education*. A. Shanableh, K. **Hamad**, M. Omar, and M. Bettayeb (Eds). ISBN 978-9948-10-122-2. University of Sharjah, 2016.
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Book Chapters

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43. K. **Hamad**, G. Al-Khateeb, and M. Omar. Senior Design Project Experience at Department of Civil & Environmental Engineering at University of Sharjah, United Arab Emirates. In: A. Shanableh, K. Hamad, M. Omar, and M. Bettayeb (Eds) *Advances in Engineering Education*, pp. 224-234, ISBN 978-9948-24-127-0, University of Sharjah, 2018.
44. Maher Omar, Abdallah Shanableh, Samar Abduljalil, Khaled **Hamad**, Mohamed Arab, Moussa Leblouba, and Ali Tahmaz. *Geotechnical Mapping of Seismic Risk for*

Sharjah City, United Arab Emirates. In: Pradhan B. (eds) Global Civil Engineering Conference (GCEC) 2017. Lecture Notes in Civil Engineering, Vol 9. Springer, Singapore, 2018.

45. S. Venkatachalam, K. **Hamad**, S. Abu Dabous, and M. Abuzwidah. An Investigative Study on The Student Performance on Multiple Choice Exams with Multiple Versions in Engineering Economics Course. In: A. Shanableh, K. Hamad, M. Omar, and M. Bettayeb (Eds) Advances in Engineering Education, pp. 111-120, ISBN 978-9948-24-127-0, University of Sharjah, 2018.
46. M. Omar, K. **Hamad**, A. Shanableh, and A. Tahmaz. Efforts to Maximize the Success of Students on Probation. In: A. Shanableh, K. Hamad, M. Omar, and M. Bettayeb (Eds) Advances in Engineering Education, pp. 53-59, ISBN 978-9948-24-127-0, University of Sharjah, 2018.
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52. K. **Hamad** and Abdul Karim Ismail. Safety Evaluation of Directional Interchange with Semi-Direct Ramp Connections and Loops. Paper 20-00496. Proceedings of the Transportation Research Board 99th Annual Meeting, Washington, DC, January 2020.
53. Lubna Obaid and Khaled **Hamad**. Modelling Mode Choice at Sharjah University City in UAE. MATEC Web Conf., Volume 308, February 2020, Article number 02004; 8th International Conference on Transportation and Traffic Engineering (ICTTE 2019), Auckland, New Zealand, December 19-21, 2019.

54. A. R. Alozi and K. **Hamad**. Quantifying Impacts of Connected and Autonomous Vehicles on Traffic Operation Using Micro-Simulation in Dubai, UAE. Paper 72. Proceedings of the 5th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2019), Crete, Greece, May 3-5, 2019.
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56. M. A. Khalil, K. **Hamad**, and A. Shanableh. Developing Machine Learning Models to Predict Roadway Traffic Noise: An Opportunity to Escape Conventional Techniques. Paper 19-00571. Proceedings of the Transportation Research Board 98th Annual Meeting, Washington, DC, January 2019.
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62. K. **Hamad**. "Value-Added Benefits to Students Learning Transportation Engineering Course," 8th International Forum on Engineering Education (IFEE2017) Advances in Engineering Education Jointly with 4th International Conference Towards Sustainable Development (ICTSD2017) Educating Engineers for Sustainability, University of Sharjah, UAE, 18-20 April 2017.
63. K. **Hamad**, G. Al-Khateeb, and M. Omar. "Senior Design Project Experience at Department of Civil & Environmental Engineering at University of Sharjah, United Arab Emirates," 8th International Forum on Engineering Education (IFEE2017)

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69. R. Al-Ruzouq, K. **Hamad**, and A. Shanableh. Spatio-temporal Analysis and Image Registration for Studying Growth of Transportation Infrastructure in Sharjah City, UAE. The 5th International Conference on Earth Observation for Global Changes (EOGC 2015) & the 7th International Conference on Geo-information Technologies for Natural Disaster Management (GiT4NDM 2015), UAE University, December 2015.
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73. K. **Hamad** and H. Abuhamda. Estimating Base Saturation Flow Rate for Selected Signalized Intersections in Doha, Qatar. Proceedings of the 2015 4th International

Conference on Traffic and Logistic Engineering (ICTLE 2015), Orlando, Florida, USA, April 2015.

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77. M. Omar, K. **Hamad**, A. Shanableh, "Early Warning Indicator at University of Sharjah - Proposed System," 7th International Forum on Engineering Education (IFEE2015): Quality Assurance in Engineering Education Jointly with 3rd Towards Sustainable Development International Conference (TSDIC2015): Sustainable Development in Engineering Education, Research and Practice, University of Sharjah, March 2015.
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81. Abdallah Shanableh, Maher Omar, and Khaled **Hamad**. "Interdisciplinary Project-based Collaboration-An Effective Approach for Integrating Sustainable Development into Design-based Courses," Presented at 6th International Forum on Engineering Education (IFEE), Kuala Lumpur, Malaysia, November 2012.
82. K. **Hamad**, M. Omar, A. Shanableh, Yahya Sarraj, "Developing New Technology-Related Bachelor's Programs in The Middle East," ASEE Southeastern Section

Annual Conference: The Global Reach of Engineering, Mississippi, USA, April 1-3, 2012.

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86. M. Omar, A. Shanableh, K. **Hamad**, and F. Shadoud, "Early Warning Indicator for University of Sharjah Students-Proposed Performance system" 5th International Forum on Engineering Education, Engineering Education in the 21st Century: Quality, Globalization, and Local Relevance", University of Sharjah, November 2010.
87. A. Shanableh, S. Barakat, M. Omar, K. **Hamad**, and F. Shadoud, "Accreditation and Program Assessment" 5th International Forum on Engineering Education, Engineering Education in the 21st Century: Quality, Globalization and Local Relevance", University of Sharjah, November 2010.
88. A. Shanableh, M. Omar, K. **Hamad**, and M. Imteaz, "Sustainability and the Changing Culture of Civil Engineering Education: a Case Study from the University of Sharjah," Conference on Engineering Education in Sustainable Development, Gothenburg, Sweden, September 19-22, 2010.
89. A. Shanableh, M. Imteaz, K. **Hamad**, M. Omar, T. Merabtene, "The Changing Chemistry of the Carbonate System in a Semi-Enclosed Gulf," Climate Change National Conference 2010, Australia, September 2010.
90. Maher Omar, Abdallah Shanableh, and Khaled **Hamad**, "Thoughts on the University-Industry Relations. Proceedings of Conference for Industry and Education Collaboration. American Society for Engineering Education", Palm Spring California, USA. February 2010.
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92. E. Kraus, C.A. Quiroga, K. **Hamad**. Estimating the Impact of Incident Delay Using Loop Detector Data. The ITE 2006 Annual Meeting and Exhibit Compendium of Technical Papers. Milwaukee, Wisconsin. August 2006.
93. K. **Hamad** and A. Faghri. Hybrid Empirical Mode Decomposition Neuro Model for Short-Term Travel Time Prediction on Freeways. Paper 05-1890. Proceedings of the

84th Annual Meeting of the Transportation Research Board. Washington, DC. January 2005.

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95. K. **Hamad** and S. Kikuchi. Developing a Measure of Traffic Congestion: A Fuzzy Inference Approach. Paper 02-2770. Proceedings of the 81st TRB annual meeting of the Transportation Research Record, Washington, D.C., January 2002.
96. L. H Boliang, A. Faghri, Z. Jiang, and K. **Hamad**. A Model for Train Connecting Service and Routing Plan in a Large-Scale Rail Network. Paper 02-2730. Proceedings of the 81st TRB annual meeting, Washington, D.C., January 2002.
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98. Songchitruksa, P., K. N. Balke, Y. Zhang, K. **Hamad**, and G. Pesti. A Guidebook for Effective Use of Archived Operations Data at Transportation Management Centers. Report 0-5485-P1, Texas A&M Transportation Institute, College Station. January 2008.
99. C.A. Quiroga, K. **Hamad**, and E. Kraus. Inventory of Utilities—Summary Report. Technical Report 5-2110-01-4. Texas Department of Transportation, Austin, Texas. January 2008.
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104. C.A. Quiroga, E. Kraus, and K. **Hamad**. Inventory of Utilities—Data Collection and Processing. Technical Report 5-2110-01-3. Texas Department of Transportation, Austin, Texas.

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106. C.A. Quiroga, K. Hamad, E. Park. Incident Evaluation Procedures and Implementation Requirements. Technical Report. 0-4745-2. Texas A&M Transportation Institute, College Station, Texas. October 2005.
107. C.A. Quiroga, K. Hamad, E. Park. Incident Detection Optimization and Data Quality Control. Technical Report. 0-4745-3. Texas A&M Transportation Institute, College Station, Texas. October 2005.
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109. A. Faghri, K. Hamad, D. Kerr, C. Magdefrau, J. Stokes, W. Yeung. Application of Global Positioning System (GPS) to Travel Time and Delay Measurements - 2000 Phase. Research Report. Delaware Center for Transportation, University of Delaware, Newark, DE. 2001.
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Master's Thesis & Ph.D. Dissertation

111. K. Hamad. Hybrid Empirical Mode Decomposition Neuro Model for Short-Term Travel Time Prediction on Freeways. Ph.D. Dissertation. The University of Delaware. Newark, DE, USA. 2004.
112. K. Hamad. An Innovative Methodology for Vehicular Traffic Demand Forecasting in Developing Countries. Master's Thesis. The University of Delaware. Newark, DE, USA. 2000.

SELECTED SERVICE TO PROFESSION AND COMMUNITY

Service/Event/Activity	Role	Period
The 38 th International Symposium on Automation and Robotics in Construction 2021, Dubai, UAE	Local Chair	May 2019 - Now
Memorandum of Understanding between SAAED for Traffic Systems and University of Sharjah	Drafted and negotiated the MoU	June 2020
Transportation Research Board 99 th Annual Meeting, Washington, DC, USA	Presenter	January 12-16, 2020
26 th World Road Congress, Abu Dhabi, UAE	Member of UAE Universities Organizing Committee	October 6-10, 2019

26 th World Road Congress, Abu Dhabi, UAE	Presenter	October 6-10, 2019
PTV IMEA Mobility Day	Presenter	November 14th, 2019
Emirates Foundation's Think Science Competition	Co-chair of Judging Committee	2012 - Now
Dubai Road and Transport Authority's Research Award	Member of Judging Committee	2012 - Now
Transportation Research Board 97 th Annual Meeting, Washington, DC, USA	Presenter	January 2018
Dubai RTA Scientific Research Workshop	Trainer	October 2017
The Minister of Interior Award for Scientific Research	Judge of Traffic-Related Research Projects/Papers	2017 - Now
8 th International Forum on Engineering Education (IFEE-17) Conference, 18-20 April 2017	Co-chair of Organizing and Scientific Committees	February 2016 – April 2017
International Conference on Advances in Sustainable Construction Materials & Civil Engineering Systems (ASCMCES-17) 18-20 April 2017	Member of Joint Organizing Committee and Co-chair of Joint Scientific Committee	February 2016 - April 2017
Dubai Road and Transport Authority's Innovation Lab on "Futuristic Shared Mobility in Dubai"	Presented and Panel Discussant on Carpooling	November 26th, 2016
2016 Gulf Traffic Exhibition and Conference, Dubai, UAE	Presenter & Awards Judge	13-15 November 2016
Dubai RTA Scientific Research Workshop	Trainer	July 21st, 2016
5 th International Conference on Traffic and Logistic Engineering (ICTLE 2016), Dubai, UAE	Member of International Technical Committee, Co-Presenter	25-26 April 2016
7 th International Forum on Engineering Education (IFEE2015) Jointly with 3rd Towards Sustainable Development International Conference (3 rd TSDIC2015), University of Sharjah, UAE, 17-19 March 2015	Co-chair of Organizing and Scientific Committees	2014-15
2016 GISWORX: Regional GIS Workshops and Exhibitions for ESRI Users, Dubai, UAE	Co-presenter	19-21 April 2016
Conference of ASEAN Road Safety 2015 (CARS 2015), Kuala Lumpur, Malaysia	Presenter	November 2015
Transportation Noise and Vibration Analysis by Dr. Ahmed El-Aassar, Noise and Air Quality Manager, Gannett Fleming Inc., Sharjah, UAE	Seminar Organizer	October 2015
4 th International Conference on Traffic and Logistic Engineering (ICTLE 2015), Orlando, Florida, USA	Presenter	April 2015
Memorandum of Understanding between the UAE Ministry of Infrastructure Development and University of Sharjah (signed in May 2016)	Drafted and negotiated the MoU	2015-2016

Transportation Research Board 93 rd Annual Meeting, Washington, DC, USA	Presenter	January 2014
2 nd International Conference on Arabs' & Muslims' History of Sciences & the 11PPthPP Arab Conference on Astronomy and Space Sciences	Session Co-chair	December 2014
2 nd International Conference on Traffic and Logistic Engineering (ICTLE 2013), Istanbul, Turkey	Presenter	March 2013
Intel Science Competition- Arab World 2013 – Amman, Jordan	Co-chair of Judging Committee	Fall 2013
Intel Science Competition- Arab World 2012 – Dubai, UAE	Co-chair of Judging Committee	Fall 2012
6 th International Forum on Engineering Education (IFEE) Conference, Kuala Lumpur, Malaysia	Member of International Technical Committee	2012-2013
Intel Science Competition- Arab World 2011	Member of Organizing Committee	Fall 2011
5 th International Forum on Engineering Education (IFEE) Conference	Co-chair of Organizing Committee	2010

SELECTED PROFESSIONAL DEVELOPMENT ACTIVITIES

Event/Activity	Type	Period
Course B of Digital Teaching and Learning Series (BlackBoard eTeacher Certification)	Workshop	December 15-19, 2019
Transportation Research Board 99 th Annual Meeting, Washington, DC, USA	Conference	January 12-16, 2020
Course A of Digital Teaching and Learning Series (BlackBoard eTeacher Certification)	Workshop	December 15-19, 2019
5 th International Conference on Future Mobility, Dubai, UAE	Conference	November 7–8, 2019
The First Blackboard Teaching & Learning Conference RMEA, organized by BlackBoard in Dubai.	Conference	March 11-13, 2019
Technology-Enhanced Teaching & Learning – Changing Your Teaching to Match the Learning Needs of Students, organized by The Institute of Leadership in Higher Education, University of Sharjah	Workshop	February 25th, 2019
Urban Mobility Innovation Index Workshop, Dubai Road & Transport Authority	Workshop	February 27th, 2018, 2018
Transportation Research Board 97 th Annual Meeting, Washington, DC, USA	Conference	January 7-11th, 2018
International Conference on Future Mobility, Dubai, UAE	Conference	November 7–8, 2017
Smart Traffic Middle East Conference Dubai, UAE	Exhibit & Conference	8-9 May 2017
Scopus: Author & Affiliation Profiles, University of Sharjah Library	Elsevier Workshop	20 February 2017
Annual Gulf Traffic Exhibition and Conference, Dubai, UAE	Exhibit & Conference	2011 - 2017
Dubai Road and Transport Authority's Innovation Lab on "Futuristic Shared Mobility in Dubai"	Workshop	November 26th, 2016

2 nd International Conference on Future Mobility (ICFM 2016)	Conference	14–15 November 2016
Annual Scientific Research Forum, University of Sharjah	Forum	2010-2017
Annual GISWORX: Regional GIS Workshops and Exhibitions for ESRI Users	Conference	2012-2016
5 th International Conference on Traffic and Logistic Engineering (ICTLE 2016), Dubai, UAE	Conference	25-26 April 2016
2016 GISWORX: Regional GIS Workshops and Exhibitions for ESRI Users, Dubai, UAE	Exhibit & Conference	19-21 April 2016
Air Quality & Noise Control UAE 2015	Conference	16-17 November 2015
Conference of ASEAN Road Safety 2015 (CARS 2015), Kuala Lumpur, Malaysia	Conference	November 2015
Transportation Noise and Vibration Analysis by Dr. Ahmed El-Aassar, Noise and Air Quality Manager, Gannett Fleming Inc., Sharjah, UAE	Seminar	October 2015
4 th International Conference on Traffic and Logistic Engineering (ICTLE 2015), Orlando, Florida, USA	Conference	April 2015
Smart Traffic Middle East (STME 2015) Conference, Abu Dhabi	Exhibit & Conference	May 2015
UAE Graduate Student Research Conference (GSRC 2015), UAE University, Al-Ain, UAE University, UAE Participated with master's student Hassan Abu Hamdeh at the UAE Graduate Student Research Conference	Conference	March 2015
UAE Research Program for Rain Enhancement Science Seminar, University of Sharjah	Seminar	March 2015
The International Arab Conference on Quality Assurance in Higher Education, University of Sharjah	Conference	March 2015
Transportation Research Board 93 rd Annual Meeting, Washington, DC, USA	Conference	January 2014
2 nd International Conference on Sustainable Systems and the Environment (ISSE14), American University of Sharjah, UAE	Conference	February 2014
Geospatial Scientific Summit 2013, Sharjah	Conference	November 2013
Academic Program Accreditation Based on New Emirates Standards delivered by Ministry of Higher Education's Commissioners, University of Sharjah	Workshop	May 2013
2 nd International Conference on Traffic and Logistic Engineering (ICTLE 2013), Istanbul, Turkey	Conference	March 2013
MultiModal Middle East Exhibition & Seminars, Dubai, UAE	Conference	October 2012
Future Cities 2012 Exhibition & Conference, Dubai, UAE	Conference	October 2012
"Wiley Plus e-Learning: How to Enrich Student Learning Resources with Online Support Materials," University of Sharjah	Workshop	October 2012
Training of Trainers for Intel Easy Steps Program in Amman, Jordan	3-Day Training Program	June 2013
UAE National Qualification Framework Emirates and Program Assessment and Course Outcomes	Workshop	March 2013
59 th UITP World Congress and Mobility & City Transport Exhibition, Dubai, UAE	Conference	April 2011

Team-Based Learning, University of Sharjah	2-day Training Workshop	March 2011
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HONORS & AWARDS

- University of Sharjah Annual Incentive Award for Teaching 2018-19
- Dubai's Road Transport Authority Award for Sustainable Transport - Best Academic Research Category:
 - a. 2nd Place shared with W. Zeiada, L. Shakfa, and M. A. Khalil, 11th Ed., February 2019
 - b. 3rd Place shared with M. Abuzwidah and M. Al-Hmoudi, 11th Ed., February 2019
 - c. 2nd Place shared with A. Shanableh and M. A. Khalil, 10th Ed., March 2018
 - d. 1st Place shared with A. Shanableh and I. Sahnoun, 8th Ed., February 2016
- Best student research submitted for the Emirates International Future Vehicle Award (with master's students Abdul Razak, Sama, and Lubna), November 2018
- University of Sharjah Annual Incentive Award for Teaching 2015-16
- University of Sharjah Annual Incentive Award for Teaching 2012-13
- Marquis Who is Who in America 2005
- Graduate Research and Teaching Fellowships, University of Delaware, 2000-2004
- National Science Foundation Presentation Award, IGERT, 2000
- Fulbright Scholarship, U.S. Department of State, 1998-2000
- Outstanding Student Achievement Awards, An-Najah National University, 1991-1995
- Engineering Student Award, Committee for the Advancement of Science in Palestinian Academia (CASPA), Washington, D.C, 1994

PROFESSIONAL AFFILIATIONS

- Individual Affiliate, Transportation Research Board (TRB)
- Associate Member, American Society of Civil Engineers (ASCE)
- Associate Member, Institute of Transportation Engineers (ITE)
- American Society of Engineering Education (ASEE)
- Member, Palestinian Engineers Syndicate

RESEARCH INTERESTS

- Artificial Intelligence Applications in Transportation
- Intelligent Transportation Systems (ITS)
- Sustainable Transportation
- Highway Safety
- Transportation Planning in Developing Countries
- Environmental Impacts of Transportation
- Applications in Transportation (GIS-T)

JOURNAL REVIEW/EDITORIAL BOARD MEMBER

- Transportation Research Record: Journal of the Transportation Research Board

- International Journal of Intelligent Transportation Systems Research
- Advances in Transportation Studies: An International Journal
- Journal of Traffic and Logistics Engineering
- International Journal for Traffic and Transport Engineering
- International Journal of Simulation and Process Modelling

PROFICIENCY WITH SPECIALIZED SOFTWARE

- Traffic: PTV VISSIM, VISSUM and VISTRO, HCS, CORSIM, SYNCHRO, and TRANSYT-7F, and SIDRA
- GIS: ArcGIS, GeoMedia, MapInfo, and TransCAD
- CAD: Civil 3D, AutoCAD, and MicroStation
- Database: Oracle and M.S. Access
- Math and Statistics: MATLAB, R, and SPSS
- Operations Research: GAMS, Lindo, and ProModel
- Programming languages: C++, FORTRAN, and Visual Basic