

Dr. ALAA R. SINDI

Assistant Professor, Civil Engineering Department, King Abdulaziz University

Education

<i>Degree</i>	<i>Discipline</i>	<i>Institution</i>	<i>Year</i>
PhD	Transportation Engineering	Carleton University, Canada	2017
MS	Transportation Engineering	University of Waterloo, Canada	2011
BS	Civil Engineering	King Abdulaziz University, Saudi Arabia	2006

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
2017	Present	King Abdulaziz University	Assistant Professor		Full Time

Non Academic Experience

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position description (Brief)</i>
2014	2017	Tomlinson Group Ltd., Ministry of Transport of Ontario, and municipality of the city of Ottawa	Researcher	

I worked in a number of engineering projects which involved analytical and experimental activities in laboratory and field work which is funded by NSERC. I joined a team of research engineering which cooperated in the development of new compaction technique, field criterion for quality control of Ontario new pavements, and performing numerous related engineering tasks. My work required dealing with engineers from Canadian contracting firm; “Tomlinson Group Ltd.”, Ministry of Transport of Ontario, and municipality of the city of Ottawa. My work consists of planning, designing and managing field and laboratory experimental investigations. In addition, I conducted actual field and laboratory tests on the bridges and road pavements which included field and lab permeability and density tests, evaluation different compaction techniques and preparing technical engineering reports.

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position description (Brief)</i>
2018	Present	Abdulaziz University :Smart City Center	Director	Working on innovative solutions for a sustainable university

The smart city center relived the traffic pressure on various locations on campus which also had a positive impact on the traffic of the university surrounding areas. It also developed a virtual tour model for the university’s main streets. In addition, it developed a virtual tour and a 3D model for the Engineering collage to facilitate navigation through the campus. The center is introducing a new shuttle service with advances technologies to monitor and request the service. The center is working toward adding bicycle service to the campus.

Certifications and Professional Registrations

Professional Engineer, Saudi Council of Engineers, Saudi Arabia

Current Membership in Professional Organizations

<i>Member Since</i>	<i>Rank</i>	<i>Society/organization</i>
2018	Member	Saudi Council OF Engineers, Saudi Arabia (SCE)
2017	Member	Saudi Society of Civil Engineering

Honors and Awards

Excellent Research Award by King Abdulaziz University on

Sindi, A., Easa, S., and Abd El Halim, A. "Improved Multiple Discreet- Continuous Extreme Value Model" Canadian Journal of Civil Engineering 45(12), pp. 1040-1052, June (2018). <https://doi.org/10.1139/cjce-2017-0186>.

Service activities (within and outside of the institution)

1. Member of the Department of Civil Engineering Teaching Assistant Committee, KAU, 2018.
2. Member of the Department of Civil Engineering Research Support Committee, KAU, 2018.
3. Member of the Department of Civil Engineering Executive M.Sc. Committee, KAU, 2018.
4. Trainer for Fundamentals of Engineering (FE) exam workshop, KAU, 2018.
5. Coordinator of the Transportation and Surveying group in the Department of Civil Engineering, KAU, 2018.
6. Member of the university committee for improving the university and the surrounding community transportation system 2019.

Principal Publications/Presentations from the Past Five Years

1. Sindi, A. (2020). Intelligent Transportation system modelling framework for Universities: Case Study King Abdul Aziz University. 2nd International Engineering Conference and Exhibition IECE in (Riyadh, Saudi Arabia) 2-5 March, 2020.
2. Sindi, A., Easa, S., and Abd El Halim, A. "Improved Multiple Discreet- Continuous Extreme Value Model" Canadian Journal of Civil Engineering 45(12), pp. 1040-1052, June (2018). <https://doi.org/10.1139/cjce-2017-0186>.
3. Sindi, A., Abd El Halim, A., Easa, S., (2017). Evaluation of Store Closing Policy for the City of Makkah, Kingdom of Saudi Arabia. International Journal of Service Science, Management and Engineering. Vol. 4, No. 4, pp. 31-37, 2017.
4. Sindi, A., Easa, S., Abd El Halim, A., (2016). Time expenditure differences among Weekdays, Weekends and Fridays for the Residents of Makkah, Kingdom of Saudi Arabia. Canadian Society for Civil Engineering (CSCE), London, Ontario, Canada, No. 38, June 1-4, 2016.
5. Hellinga, B., & Sindi, A. (2012). Analytical method for estimating delays to vehicles traversing single-lane roundabouts as a function of vehicle and pedestrian volumes. Transportation Research Record: Journal of the Transportation Research Board, 2312, 56–66.

- Hellinga, B., & Sindi, A. (2012). Incorporating the effect of pedestrians on roundabout operations. Proceedings of the 2012 Canadian institute of Transportation Engineering Annual Conference held in May 27-30 in Winnipeg, Canada.

Recent Professional Development Activities

- Hellinga, B., & Sindi, A. (2012). Analytical method for estimating delays to vehicles traversing single-lane roundabouts as a function of vehicle and pedestrian volumes. Presented at the Annual Conference of the Transportation Research Board, held in January 22-26, 2012 in Washington D.C.
- Attended the 93rd Annual Conference of the Transportation Research Board, held in January 12-16, 2014 in Washington D.C.
- Sindi, A., Easa, S., Abd El Halim, A., (2016). Time expenditure differences among Weekdays, Weekends and Fridays for the Residents of Makkah, Kingdom of Saudi Arabia. Presented at the Canadian Society for Civil Engineering (CSCE), London, Ontario, Canada, June 1-4, 2016.
- Attended IDEAL Workshop in Jeddah, Saudi Arabia, in 2019.
- Attended TASS Conference in Birmingham, UK in 2019.
- Sindi, A. (2019). Travel demand at King Abdulaziz University: Travel demand modelling and management. Presented at the 11th conference of the Saudi Society of Civil Engineering (Mobility in the rejoin of Makkah), in Jeddah, 12th December 2019.
- Attended Blackboard Workshop at King Abdulaziz University in Jeddah, Saudi Arabia 2020.
- Sindi, A. (2020). Sustainable Transportation System at King Abdulaziz University. Presented at the 2nd National Workshop on UI GreenMetric World University Rankings for Saudi Arabian Universities in King Abdulaziz University, Saudi Arabia, 4th February 2020.
- Sindi, A. (2020). Intelligent Transportation system modelling framework for Universities: Case Study King Abdul Aziz University. Presented at the 2nd International Engineering Conference and Exhibition IECE in (Riyadh, Saudi Arabia) 2-5 March, 2020.