

Assistant Professor, Dr. Eng. Wael Alhajyaseen

Civil Engineering Department, An-Najah National University, Nablus, Palestine

Tel: 970 9 2345113 ext 2469. E-mail: wael.alhajyaseen@najah.edu

CURRENT POSITION

Assistant Professor, Civil Engineering Department, An-Najah National University, 2012 – Present

EDUCATION

- **Dr. Eng., Civil Engineering (Transportation Engineering and Planning), Nagoya University, Japan, 2007-2010**
Thesis: " Modeling Pedestrian Flows At Signalized Crosswalks and Its Applications "
- **M.Sc., Civil Engineering, University of Jordan, Jordan, 2003-2005**
Thesis: " Road Accident Prediction Models for Amman, Jordan "
- **B.Sc., Civil Engineering, An-Najah National University, Palestine, 1998-2003.**
Cumulative Average=89.9%

WORK EXPERIENCE

- **Assistant Professor, Department of Civil Engineering, Faculty of Engineering, An-Najah National University Nablus, West Bank, Palestine, 2012-Present**
- **Visiting Assistant Professor, Nagoya University, Japan, June - August 2012**
- **Postdoctoral Research Fellow, Nagoya University, 2010-2011**
- **Visiting Postdoctoral Research Fellow, Department of Civil Engineering, Technical University of Darmstadt, Germany, July - October, 2010**
- **Part-time Site Engineer, Al-Bitar Consultants, Amman, Jordan, 2004-2005**

PROFESSIONAL REGISTRATIONS

- **Japan Society of Civil Engineers (JSCE)**
- **American Society of Civil Engineers**
- **Transportation Research Board**
- **World Conference on Transport Research Society Special Interest Group (SIG) 15: Urban Traffic Control**
- **Engineers Association, Jerusalem Center**

Language Proficiency

- Arabic: Native language
- English: Speaking, Writing and Reading: Native level (TOEFL)
- Japanese: Speaking, Writing & Reading: Intermediate level.
- French: Speaking: Basic level

COMPUTER SKILLS

- Traffic Analysis Microscopic Simulation softwares (eg., Paramics, Aimsun)
 - Transportation Planning software (e.g., TransCAD)
 - Road Design (e.g., Civil 3D)
 - GIS Software (e.g., GIS plus)
 - Computer Aided Design and Drafting (e.g., AutoCAD)
 - Statistical software (e.g., SPSS, STATA)
 - MS Office (e.g., MS Project 2010)
-

TRAINING

- AUTOCAD 2D training Course, Engineering Association – Jerusalem Center, April - June, 2003
- Structures Seismic Design Course, Engineering Association – Jerusalem Center, November 2001 to March 2002.

Invited Lectures

- Assessing the Safety of Signalized Intersections by Simulating User Behavior Considering the Effects of Intersection Geometry. Summer Intensive program of Nagoya University in Automobile Engineering (NUSIP), July 19, 2011.
 - Production, Logistics and Traffic: Scheduling of Commercial Traffic in Urban Road Networks Based on Travel Times. Technical University of Darmstadt, Darmstadt, Germany, February 15, 2011.
-

AWARDS

- **BEST PAPER AWARD** in the 32nd Annual Meeting of Japan Society of Traffic Engineers JSTE, Tokyo, JAPAN, September, 2012.
- **OUTSTANDING POSTER PRESENTATION AWARD** in the 9th Eastern Asia Society for Transportation Engineering Studies EASTS international conference, Jeju, Korea, June, 2011.
- **YASOSHIMA YOSHINOSUKE PRIZE** to the academic and/or practical contribution for realizing better mobility in Eastern Asia Region and the World. The 8th Eastern Asia Society for Transportation Engineering Studies EASTS international conference, Surabaya, INDONESIA, November, 2009.

- **OUTSTANDING PRESENTATION AWARD** in the 8th Eastern Asia Society for Transportation Engineering Studies EASTS international conference, Surabaya, INDONESIA, November, 2009.
- **CERTIFICATE OF EXCELLENCE FOR DISTINGUISHED PRESENTATION**, 11th International Summer Symposium of Japan Society of Civil Engineers, Tokyo, JAPAN, September, 2009.
- **Japanese Government Scholarship** to get the doctor degree at Nagoya University, Nagoya, Japan, 2006-2010

COURSES TAUGHT:

BACHELOR COURSES:

- Transportation Systems Engineering I
- Transportation Systems Engineering II
- Advanced Topics in Traffic Engineering
- Graduation Project I
- Graduation Project II

PUBLICATIONS

PUBLISHED REPORTS

- Nakamura H., Asano, M. Alhajyaseen W. and Wolfermann A. (2011). Development of a Simulation Model for the Safety Assessment of Signalized Intersections. Final Report of the Research Project Granted by Takata Foundation, ISSN 2185-8950.

REFEREED JOURNAL PAPERS

- Alhajyaseen, W., LI, M., Nakamura, H. and Daamen, W. (2012). Effectiveness of Signal Coordination for Pedestrian Flows Considering Bi-directional Flow Impacts. Asian Transport Studies ATS, Eastern Asia Society for Transportation Studies (EASTS), Vol. 2, 15 pages. (Publication date: March, 2013)
- Tan, D., Alhajyaseen W., Asano, M. and Nakamura, H. (2012). A Microscopic Traffic Simulation Model for Safety Assessment at Signalized Intersections. Accepted for the publication in Transportation Research Record, Journal of Transportation Research Board, Washington DC, USA. (Publication date: January 2013).
- Alhajyaseen W., Asano, M. and Nakamura, H. (2012). Stochastic Approach for Modeling the Effects of Intersection Geometry on Turning Vehicle Paths. Accepted for publication in Transportation Research Part C: Emerging Technologies. In Press.
- Alhajyaseen W., Asano, M. and Nakamura, H. (2012). Left-turn gap acceptance models considering pedestrian movement characteristics. Accident Analysis and Prevention, Elsevier, Vol. 50, pp. 175-185.
- Alhajyaseen W., Asano, M. and Nakamura, H. (2012). Estimation of Left-turning Vehicle Maneuvers for the Assessment of Pedestrian Safety at Intersections. Journal of International Association of Traffic and Safety Sciences, IATSS Research, Elsevier, Vol.36, Issue 1, pp. 66-74.

- Alhajyaseen W., Asano, M., Suzuki, K. and Nakamura, H. (2011). Analysis on the Variation of Left-Turning Vehicle Trajectories inside Intersections. *Journal of the Eastern Asia Society for Transportation Studies (EASTS)*, Vol.9, pp.1543-1557, 2011.
- Alhajyaseen, W., Nakamura, H. and Asano, M. (2011). Effects of Bi-directional Pedestrian Flow Characteristics upon the Capacity of Signalized Crosswalks. *Procedia - Social and Behavioral Sciences*, Elsevier, Volume 16, pp. 526-535.
- Alhajyaseen, W. and Nakamura, H. (2010). Quality of Pedestrian Flow and Crosswalk Width at Signalized Intersections. *Journal of International Association of Traffic and Safety Sciences*, IATSS Research, Elsevier, Vol.34, Issue 1, pp. 35-41.
- Alhajyaseen, W. and Nakamura, H. (2010). Estimating the Minimum Required Width of Signalized Crosswalks Considering Bi-directional Pedestrian Flow and Different Age Groups. *Asian Transport Studies ATS*, Eastern Asia Society for Transportation Studies (EASTS), Vol. 1, Issue 2, pp. 181-198.
- Alhajyaseen, W. and Nakamura, H. (2009). Modeling and Analysis of Pedestrian Flow at Signalized Crosswalks. *Journal of Infrastructure Planning Review*, Japan Society of Civil Engineers, Vol. 26, pp.611 - 620.

REFEREED CONFERENCES / PROCEEDINGS :

- Alhajyaseen W., Asano, M., and Nakamura, H. (2012). An Integrated Model for reproducing the Maneuver of Left Turners Considering Dynamic Reaction to Crossing Pedestrians. *Transportation Research Board (TRB) 91st Annual Meeting*, CD-ROM, Washington DC, USA, 16 pages.
- Tan, D. M., Alhajyaseen W., Asano, M. and Nakamura, H. (2012). A microscopic Traffic Simulation Model for Safety Assessment at Signalized Intersections. *Transportation Research Board (TRB) 91st Annual Meeting*, CD-ROM, Washington DC, USA, 17 pages.
- Alhajyaseen, W., Asano, M, Nakamura, H and Kang, N. (2011). Gap Acceptance Models for Left-Turning Vehicles Facing Pedestrians at Signalized Crosswalks. Accepted for the presentation at the 3rd International Conference on Road Safety and Simulation, *Transportation Research Board TRB*, Indianapolis, Indiana, USA, 17 pages.
- Alhajyaseen, W., Asano, M, Dang, M. T. and Nakamura, H. (2011). A Methodology for Modeling the Distribution of Turning Vehicle Paths at Signalized Intersections. Accepted for the presentation at the 3rd International Conference on Road Safety and Simulation, *Transportation Research Board TRB*, Indianapolis, Indiana, USA, 20 pages.
- Wolfermann, A., Alhajyaseen W. and Nakamura, H. (2011). Modeling Speed Profiles of Turning Vehicles at Signalized Intersections. Accepted for the presentation at the 3rd International Conference on Road Safety and Simulation, *Transportation Research Board TRB*, Indianapolis, Indiana, USA, 17 pages.
- Alhajyaseen W., Nakamura, H. and Asano, M. (2011). Effects of Bi-directional Pedestrian Flow Characteristics upon the Capacity of Signalized Crosswalks. *Proceedings of the 6th International Symposium on Highway Capacity and Quality of Service ISHC*, *Transportation Research Board TRB*, Stockholm, Sweden, 10 pages.
- Alhajyaseen W., Asano, M., Suzuki, K. and Nakamura, H. (2011). Analysis on the Variation of Left-Turning Vehicle Trajectories inside Intersections. *Proceedings of the 9th Eastern Asia Society for Transportation Studies EASTS International Conference*, Jeju, Korea, 15 pages.
- Alhajyaseen, W., LI, M., Nakamura, H. and Daamen, W. (2011). Effectiveness of Signal Coordination for Pedestrian Flows Considering Bi-directional Flow Impacts.

Proceedings of the 9th Eastern Asia Society for Transportation Studies EASTS International Conference, Jeju, Korea, 15 pages.

- Alhajyaseen, W., Zhang, X., Nakamura, H. and Asano, M. (2011). Analysis on Pedestrian Speeds at Intersections Considering Signal Timing and Crosswalk Length. Proceedings of the 9th Eastern Asia Society for Transportation Studies EASTS International Conference, Jeju, Korea, 13 pages.
- Alhajyaseen W., Asano, M., Suzuki, K. and Nakamura, H. (2011). Modeling the Variation in the Trajectory of Left Turning Vehicles Considering Intersection Geometry. Transportation Research Board (TRB) 90th Annual Meeting, CD-ROM, Washington DC, USA, 17 pages.
- Alhajyaseen, W., Li, M., Daamen, W. and Nakamura, H. (2010). Evaluation of Signal Coordination for Pedestrian and Vehicular Flows. Proceedings of the 12th World Conference in Transport Research WCTR, Lisbon, Portugal, 18 pages.
- Alhajyaseen, W. and Nakamura, H. (2010). Design Criteria for Crosswalk Width and Position at Signalized Intersections. Proceedings of the 4th International Symposium on Highway Geometric Design, Transportation Research Board (TRB), Valencia, Spain, 18 pages.
- Li, M., Alhajyaseen, W. and Nakamura, H. (2010). A Traffic Signal Optimization Strategy Considering Both Vehicular and Pedestrian Flows. Transportation Research Board (TRB) 89th Annual Meeting, CD-ROM, Washington DC, USA, 18 pages.
- Alhajyaseen, W. and Nakamura, H. (2009). The Minimum Required Width of Signalized Crosswalks Considering Bi-directional Pedestrian Flow and Different Age Groups. Proceedings of the 8th Eastern Asia Society for Transportation Studies EASTS International Conference, CD-ROM, Surabaya, Indonesia, 16 pages.
- Alhajyaseen, W. and Nakamura, H. (2009). Estimation of Crosswalk Width to Minimize Cycle Length at Signalized Intersections. Proceedings of the 11th International Summer Symposium, Japan Society of Civil Engineers, pp. 213 – 216, Tokyo, Japan, 4 pages.
- Alhajyaseen, W. and Nakamura, H. (2009). A Methodology for Modeling Pedestrian Platoon Discharge and Crossing Times at Signalized Intersections. Transportation Research Board (TRB) 88th Annual Meeting, CD-ROM, Washington DC, USA, 19 pages.
- Asano, M., Zhang, X., Alhajyaseen, W. and Nakamura, H. (2012). A Study on Pedestrian Clearing Behavior at Signalized Intersections. Proceedings of the 32nd Annual Meeting of Japan Society of Traffic Engineers, Tokyo, JAPAN, 6 pages. (In Japanese)
- Kang, N., Alhajyaseen, W., Wolfermann, A., Asano, M. and Nakamura, H. (2011). Modeling the Maneuver of Left-turning Vehicles Considering the Interaction with Pedestrians at Signalized Intersections. Proceedings of Infrastructure Planning, Vol. 43, CD-ROM, Japan Society of Civil Engineers, Tsukuba, JAPAN, 9 pages.
- Tan, D., Alhajyaseen, W., Asano, M. and Nakamura, H. (2011). Developing a Simulation Tool for Traffic Safety Assessment at Signalized Intersections. Proceedings of Infrastructure Planning, Vol. 43, CD-ROM, Japan Society of Civil Engineers, Tsukuba, JAPAN, 6 pages.
- Zhang, X., Alhajyaseen, W., Asano, M. and Nakamura, H. (2011). The impacts of signal timing and crosswalk length upon pedestrian speeds at signalized crosswalks. Proceedings of Infrastructure Planning, Vol. 43, CD-ROM, Japan Society of Civil Engineers, Tsukuba, JAPAN, 5 pages.
- Kang, N., Alhajyaseen, W., Nakamura, H., Asano, M. and Tang, K. (2010). Evaluation of Group-Based Signal Control Through Field Operational Tests. Proceedings of

Infrastructure Planning, Vol. 41, CD-ROM, Japan Society of Civil Engineers, Nagoya, JAPAN, 4 pages.

- Tan, D., Asano, M., Alhajyaseen, W. and Nakamura, H. (2010). Pavement Marking Treatments. Proceedings of Infrastructure Planning, Vol. 41, CD-ROM, Japan Society of Civil Engineers, Nagoya, JAPAN, 4 pages.
- Alhajyaseen, W. and Nakamura, H. (2009). Effects of Bi-directional Flow and Different Pedestrian Age-Groups on Capacity of Signalized Crosswalks. Proceedings of Infrastructure Planning, Vol. 39, CD-ROM, Japan Society of Civil Engineers, Tokushima, 4 pages.
- Alhajyaseen, W., Nakamura, H. and Catbagan J. (2008). A Proposed Methodology for Modeling Pedestrian Crossing Time at Signalized Crosswalks Considering Bi-directional Flow. Proceedings of Infrastructure Planning, Vol. 38, Japan Society of Civil Engineers, Wakayama, 4 pages.

REFERENCES

Available upon request
