Personal Information

Name: Mohammad Naser

Current academic rank: Assistant professor

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Work Experience

May, 2009-Present   Civil Engineering Department Jordan University, Amman, Jordan, Assistant Professor

2004-May, 2009   Advanced Traffic Analysis Center (ATAC), Fargo, ND, Graduate Research Assistance

Education

1999-2004   University of Jordan, Amman, Jordan
Bachelor of Science / Civil Engineering

2004-2006   North Dakota State University, Fargo, ND
Master of Science / Civil Engineering – Transportation Planning Emphasis

2006-2009   North Dakota State University, Fargo, ND
Doctor of Philosophy / Civil Engineering – Transportation Planning Emphasis

Conferences and Technical Activities

Khalid Darabkeh, Ala'a Khalifeh, Mohammad Naser, New Arriving Process in Convolutional Code with Adaptive Behavior, 9th International Multi-Conference on Systems, Signals and Devices 2012, March 20 - 23, 2012 - Chemnitz, Germany

Rana Imam, Mohammad Naser, Analysis, appraisal and evaluation of BRT systems, The Traffic Management & Bus Priority Conference, July 18-20, 2011, Bristol, United Kingdom

Attended TRB Committee "Small and Medium Sized Communities" Tools of the Trade 10th National Conference, Nashville, Tennessee, September 2006

Attended Transportation Research Board Meetings, Washington D.C.
86th Anneal Meeting, January 2007
87th Annual Meeting, January 2008

Presenter at the TRB Committee "Small and Medium Sized Communities" Tools of the Trade 11th National Conference, Portland, Oregon, September 2008, "Enhancing Regional Travel Models Response to Dynamic Traffic Conditions"

Presenter at the Upper Great Plains Transportation Institute Transportation Seminar series, Fargo, North Dakota, April 2008 "Dynamic Meso-scopic Simulation Approach to Modeling Emergency Evacuations"

Technical Experience

Worked on many projects related to transportation planning & travel demand modeling where the tasks performed included mainly performing:
Future Traffic projections Studies
Transportation User Cost Studies
Land Use Traffic Impact Studies
Transportation Alternatives Evaluation Studies
Sub-Area Traffic Analysis Studies
Regional Travel Demand Models Updates and Maintenance
Emergency Evacuation Studies

Relevant major projects:
Fargo-Moorhead Regional Travel Demand Model Update (FM COG)
Performed a major update of the FM COG's regional travel demand model. The modeled area consists of the cities of Fargo and West Fargo in the state of North Dakota in addition to Moorhead and Dilworth in the state of Minnesota represented by 543 Traffic Analysis Zones. The update included changing the network attributes, incorporating new socio-economic data, and calibrating to the 2005 base year data

Grand Forks/East Grand Forks Travel Demand Model Update (GF/EGF MPO)

A major update of the GF/EGF MPO's regional travel demand model to reflect the changes in the transportation system and socio-economic attributes of the area since the last model update. The model was calibrated to the 2005 available data and is used to support project development, traffic studies, and assess future transportation needs

Trunk Highway 75 and 20th Street S Corridor Study (FM COG)
Modeled existing traffic conditions and provided future traffic projections for different transportation network and area development scenarios

South Bridge Corridor over the Red River between Fargo, ND and Moorhead, MN (FM COG)
Modeled future traffic projections for different transportation network and area development scenarios

Bridge Construction Closures (GF/EGF MPO)
Run the MPO's base year model with several transportation links modified to reflect different scenarios

Developed an Interface between Cube and DYNASMART-P Software
An interface was developed to achieve an efficient and consistent exchange of data and output between Cube and DYNASMART-P which resulted in the development of a hybrid travel demand model that could be used for transportation planning and traffic operation studies

Computer Programs Related to This Work Experience:
Cube
DYNASMART-P
VISUM
ArcGIS
HCS
Synchro
Microsoft Office

Committees & Professional Membership

Member of the Institute of Transportation Engineers (ITE)
Member of the AASHTO GIS for Transportation Symposium
Member of the Jordanian Engineers Association (JEA)
Member of the Traffic and Highway Technical Committee at JEA
Member of the highways committee at the Ministry of Public Works and Housing, Jordan
Member of the campus committee at The University of Jordan
Member of the Faculty of Engineering and Technology Accreditation Committee