**Curriculum Vitae**

# Personal Details

Name: **Maher Shakir Mahmood**

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Nationality: Iraqi

Language: Arabic, English

# University Education and Qualifications

**2011–2015**  PhD  in Highway engineering  from [School of Architecture, Design and the Built Environment](https://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwjYrOGcmJrKAhUCRg8KHcpEBgcQFggiMAA&url=http%3A%2F%2Fwww.ntu.ac.uk%2Fadbe%2F&usg=AFQjCNH5_E3DN-J3OttLaFE1TBuFAxgt8g&sig2=EXoPl81FDekcBzGQnRviJg&bvm=bv.110151844,d.ZWU), Nottingham Trent University.

 Thesis title: *Network-Level Maintenance Decisions For Flexible Pavement Using A Soft Computing-Based Framework*

**2011 –2014** PGDip. in Professional Research Practice from Nottingham Trent University.

**2000-2002** MSc. in transportation Planning awarded from the College of Engineering at University of Anbar.

Thesis title: *Transportation System Performance and Land Use Models, Case study Ramadi city*.

**1997-2000** BSc. in Civil Engineering from University of Anbar, College of Engineering.

# Career History

* I worked as an engineer at University of Anabr from 2001 to 2003.
* I worked as assistant lecturer from 2003 until now in civil Engineering department at university of Anabr, Iraq. I was doing research, teaching and administration.
* Assistant head of Civil Engineering Department, College of Engineering, University of Anbar, 2004 to 2009.

# Teaching

1. 2001–2003, Surveying Lab, Supervisor, Civil Engineering Department, College of Engineering, University of Anbar, Iraq.
2. 2003–2004, Lecturer, Surveying Engineering, Civil Engineering Department and Dams and Water Resource Department, College of Engineering, University of Anbar, Iraq.
3. 2004–2010, Lecturer, Mathematics, Civil Engineering Department and Dams and Water Resource Department, College of Engineering, University of Anbar, Iraq.
4. 2006–2008, Lecturer, Traffic Engineering, Civil Engineering Department, College of Engineering, University of Anbar, Iraq.

# Publications

1. Mahmood, M. Sh., and Abid, A. N., 2004. Building of mathematical model for forecasting of future Land Use – case study Ramadi city. *Iraqi Journal for Civil Engineering*, 5.
2. Maher Shaker Mahmood, “Building of mathematical model for forecasting of Production Trips – case study Ramadi city”. *Iraqi Journal for Civil Engineering*, 9, pp. 32-44.
3. Mahmood, M. Sh., Abid, A. N., and Mehdi, W., 2008. Building Mathematical Model of mode choice for Attracted Trips to Ramadi City. *Iraqi Journal for Civil Engineering,* 11, pp. 17-26.
4. Mahmood, M., 2013. Pavement Section Classification By Using Fuzzy Rule-Based System. *Research and the Researcher, Fifth Annual Research Practice Course Conference*, Nottingham Trent University, pp. 58-63.
5. Mahmood, M., Rahman, M., Nolle, L., and Mathavan, S., 2013. A Fuzzy Logic Approach for Pavement Section Classification. *International Journal of Pavement Research and Technology*, 6(5), pp. 620-626.
6. Mahmood, M., 2014. Cross Validation of Multi Input Deterioration Prediction Model (MID-PM) for Network Level Pavement Management. *Proceedings of the Inaugural College of Art, Design & Built Environment Doctoral Conference*, Nottingham Trent University, 9th-10th June, Nottingham, UK.
7. Mahmood, M., Rahman, M., and Mathavan, S., 2015. Pavement Management: Data Centric Rules and Uncertainty Management in Section Classification by a Fuzzy Inference System. *6th International Conference Bituminous Mixtures and Pavements*, Thessaloniki, Greece.
8. Mahmood, M., Mathavan, S., and Rahman, M., 2016. Pavement Maintenance Decision Optimisation Using A Novel Discrete Bare-Bones Particle Swarm Algorithm. In: 95th Annual Meeting of the Transportation Research Board. Washington, D.C.
9. Mahmood, M., Rahman, M., and Mathavan, S., 2016. Distress Based Pavement Performance Prediction Models. 8th International Conference on Maintenance and Rehabilitation of Pavements (MAIREPAV8), Singapore.

# Professional Memberships

* Member of Iraqi Engineers Union, 2000, Iraq.
* Member of Iraqi Teachers Union, 2001, Iraq.
* Member of the Chartered of Institution of Highways and Transportation CIHT, 2011, UK.
* Member of Transportation Planning Society TPS, 2015, UK.

# Research Interests

* Transportation Planning.
* Traffic and Highway Engineering.
* Surveying Engineering.
* Pavement management system.
* Optimisation.
* Artificial intelligence techniques.
* Remote Sensing and GIS.

# Training Courses

* Participated in Remote sensing course, GORS, 2006, Syria.
* Participated in OJT on Road Construction Technology training program, KOICA and Korea Expressway Corporation (EX), 2008, South Korea.
* Participated in Effective Researcher workshops, Nottingham Trent university, UK, 2011.
* Participated in Initial Teaching Professional Development Programme, Nottingham Trent university, UK, 2013.

# Skills

* Matlab
* MicroPAVER
* SPSS
* AutoCAD
* ArcGIS