

Dr. Dilshad Ali Mohammed

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Professional Summary

Dedicated Civil Engineer and University Lecturer with 19+ years of experience in academia, research, and construction project management. Proven record of delivering high-quality teaching in engineering disciplines, with strong leadership in academic quality assurance. Recently I was awarded a PhD in Transportation and Vehicle Engineering with internationally recognized research contributions.

Education

- PhD in Transportation and Vehicle Engineering
Széchenyi István University, Győr, Hungary – Awarded 2025
Dissertation focused on advanced transport modeling and highway engineering optimization. Published in Q1, Q2, and Q3 journals; presented at international conferences.
- MSc in Transportation Engineering – University of Salahaddin, Erbil, Iraq – 2011
- BSc in Civil Engineering – University of Duhok, Duhok, Iraq – 2005

Work Experience

1. Lecturer, University of Duhok, Iraq – 2012 to Present
 - Delivered undergraduate lectures in:
 - Traffic Engineering (4th year, Civil Eng. Dept.)
 - Highway Engineering – Practical Lab (3rd year, Civil Eng. Dept.)
 - Autodesk AutoCAD (2nd year, Civil Dept.)
 - Methods of Construction (4th year, Water Resources Eng. Dept.)
 - Basics of Highway Engineering (3rd year, Surveying Eng. Dept.)
 - Engineering Statistics (1st year, Surveying Dept.)
 - AutoCAD Civil 3D (3rd year, Surveying Dept.)
 - Transportation and Mobility (3rd year, City Planning Dept.)
2. Head of Teaching Quality Assurance for both Civil and Surveying Engineering Departments. 2012-2015
3. Construction Project Manager at Sizar Company, Engaged to the work with HKN & TAQA Oil Co., 2015-2017
 - Supervised construction of concrete structures, oilfield roadworks, signage, and safety installations.
4. Site Supervisor Engineer, AWAR (NGO). & CARE International (NGO)– 2012 to 2014
 - Led technical oversight for road rehabilitation and water/sanitation infrastructure.
 - Worked as WASH Officer on humanitarian engineering programs.
5. Supervisor Engineer, Directorate of Construction & Housing, Iraq – 2006 to 2012
 - Oversaw major public works including rural roads, schools, and government housing.
 - Responsible for BoQ development and site inspections.

Research Interests & Publications

Transportation Planning, Traffic Engineering, Highway Geometric Design, and Road Safety

Published Research:

- **D. Mohammed** and B. Horváth, “A review on detection and recognition of traffic signs by autonomous vehicles,” in XI. International Conference on Transport Sciences, 2021, pp. 20–27.
- **D. Mohammed** and B. Horváth, “An overview on various methods of detection and recognition of traffic signs by Autonomous Vehicle,” in 12th IEEE International Conference on Cognitive Infocommunications (CogInfoCom), 2021, pp. 245–252.

- **D. Mohammed** and A. F. Talabany, “Coordination of Traffic Signals on Arterial Streets in Duhok City,” Zanco J. Pure Appl. Sci., vol. 33, no. 5, pp. 8–1723, 2021.
- **D. Mohammed** and B. Horváth, “Vehicle Automation Impact on Traffic Flow and Stability: A Review of Literature,” Acta Polytech. Hungarica, vol. 20, no. 5, 2023.
- **D. Mohammed** and B. Horváth, “Effect of Different Driver Behaviour Parameters in Microsimulation Model,” in XX. European Transport Congress, 2022, pp. 64–71.
- **D. Mohammed** and B. Horváth, “Travel Demand Increment Due to the Use of Autonomous Vehicles,” Sustainability, vol. 15, no. 11. 2023, doi: 10.3390/su15118937.
- **D. Mohammed** and B. Horváth, “Public perception of autonomous vehicles acceptance in Hungary,” Int. Rev. Appl. Sci. Eng., 2024, doi: <https://doi.org/10.1556/1848.2024.00769>.
- **D. Mohammed** and B. Horváth, “Steady-Speed Traffic Capacity Analysis for Autonomous and Human-Driven Vehicles,” Applied Sciences, vol. 14, no. 1. 2024, doi: 10.3390/app14010337.
- **D. Mohammed** and B. Horváth, “Comparative Analysis of Following Distances in Different Adaptive Cruise Control Systems at Steady Speeds,” World Electric Vehicle Journal, vol. 15, no. 3. 2024, doi: 10.3390/wevj15030116.
- **D. Mohammed**, V. Nagy, M. Jagicza, D. Józsa, and B. Horváth, “Efficiency of adaptive cruise control in commercial vehicles,” Pollack Period., 2024, doi: <https://doi.org/10.1556/606.2024.00970>.
- **D. Mohammed** and B. Horváth, “Evaluating Fuel Consumption Rates Based on Rising Travel Demands Generated by Autonomous Vehicles,” Chem. Eng. Trans., vol. 107, pp. 553-558 SE-Research Articles, Dec. 2023, doi: 10.3303/CET23107093.
- **D. Mohammed** and B. Horváth, “Assessing the Paradox of Autonomous Vehicles: Promised Fuel Efficiency vs. Aggregate Fuel Consumption,” Energies, vol. 17, no. 7. 2024, doi: 10.3390/en17071589.

Technical Skills

- **Engineering & Design Software:** AutoCAD, Civil 3D
- **Statistical & Computational Tools:** SPSS, R Project
- **Transport Modeling & Simulation:** PTV Vissim
- **Specialized Expertise:** Quality Assurance in Engineering Education

Certifications & Training

- Leadership & Communications Course by KRG Ministry of Planning & USAID Tatweer in Duhok, 2011.
- Methods of Teaching Course by University of Duhok, 2012.
- Teaching Quality Assurance Course by UNISCO in Erbil, 2016.
- Industry Engagement Training Course by International Research & Exchanges Board (IREX) in Erbil, 2016.
- Emergency Water Treatment (LMS) conducted by CARE NGO in Erbil, 2017.

Languages

Kurdish (Native), **Arabic** (Native), **English** (Advanced)

References

Dr. Balázs Horváth

Head of Department of Transport
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