

CURRICULUM VITAE

PING YI, PhD, P.E.

Professor

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Dept. of Civil Engineering
The University of Akron

EDUCATION Ph.D. – Transportation Engineering., Civil & Mineral Engineering Department, University of Minnesota, 1992
M.S. – Transportation Engineering, Civil & Envir. Engineering, Department, Washington State University, 1986
B.S. – Civil Engineering, Wuhan University, China

RESEARH FOCUS System reliability and environmental sustainability, information systems and technology, transportation safety and traffic control

PROFESSIONAL EXPERIENCES

ACADEMIA

Professor, Associate Professor, Assistant Professor, 1996-present, University of Akron
Director, Ohio Transportation Consortium, University of Akron, 2006 – 2012

GOVERNMENT

Project Manager/Principal Engineer, Minnesota Department of Transportation (MnDOT), Office of Intelligent Transportation System Program (*Guidestar*), 1991-1994, for a number of operational test projects, including –

1. Detection Technology for ITS, funded by FHWA and MnDOT to identify and field test image sensing, microwave, infrared, radar, ultrasonic, and laser detection Systems, 1991-1992.
2. Advanced Urban Signal Control and Integration, funded by FHWA and MnDOT to implement SCOOT system over sixty five (65) intersections in downtown Minneapolis, 1993-1994.
3. Field Test of Non-Intrusive Detection Technologies for Urban Vehicle Operations, funded by FHWA to field test image sensing, microwave, infrared, radar, and ultrasonic traffic detection systems, 1993-1994.

RECENT PUBLICATIONS

Edited Books/Book Chapters

1. ICLEM2014 Logistics Engineering and Management, Co-Editor, ASCE Publishing, Washington DC, 2014.
2. Traffic Control Systems, McGraw-Hill Encyclopedia AccessScience, McGraw Hill, 2014
3. ICTIS2013. Transportation Information and Safety, Co-Editor, ASCE Publishing, Washington DC, 2013.
4. ICLEM2012. Logistics Engineering and Management. Co-Editor, ASCE Publishing, Washington DC, 2012.
5. ICTIS 2011. Multimodal Approach to Sustained Transportation Development – Information, Technology, Implementation. Co-Editor, ASCE Publishing, Washington DC, 2011.
6. ICLEM 2010. Logistic Engineering and Management. Co-Editor, ASCE Publishing, Washington DC, 2010.
7. ICCTP. Critical Issues in Transportation System Planning, Development, and Management. Co-Editor, ASCE Publishing, Washington DC, 2009.

Refereed Papers

1. "Minimizing Parking Search Time on Urban University Campuses Through Proactive Class Assignment", Journal of Transportation Research Board, vol. 2537, 2015
2. "Correlation Between Crash Rates and International Roughness Index on In-Service U.S. Highways." Transportation Research Forum 63, Atlanta, GA 2015.
3. "Design and Implementation of a 75 KW Mobile Charging System for Electric Vehicles", IEEE Transactions on Industry Applications, Vol. 9, 2015.
4. "Investigation of the Effect of Pavement Roughness on Crash Rates for Rigid Pavement." Journal of Transportation Safety & Security, April, 2015. (*corresponding)
5. "Optimum Location Identification of Plug-In Electric Vehicle Charging Stations Based on Graphic Weighting". CICTP 2013, Beijing, ASCE Publishing.
6. "Development and Testing of an Automatic Turning Movement Identification System at Signalized Intersections", Journal of Transportation Technologies, Vol.3, 2013.
7. "Active THD Reduction Strategy for Grid Connected EV Charging Stations", IEEE EnergyTech Conference, May 2013
8. "Location Selection of Charging Stations for Battery Electric Vehicles in an Urban Area", Int. J. of Engineering Research and Science & Technologies, Vol. 2, No. 3, 2013.
9. "Maximizing Intersection Pedestrian Safety Through Unconventional Geometric Design of Continuous-Flow Intersections, Journal of Transportation Research Board, No. 2309, 2012.
10. "Field Investigation of Traffic Noise by Pickup Trucks and Sports Utility Vehicles", CICTP 2013, Shenzhen, Elsevier Publishing.
11. "Quantifying Dynamic Factors Contributing to Dilemma Zone at High-Speed Signalized Intersections", Journal of Transportation Research Board, No. 2259, 2011.
12. "Application of IntelliDrive Information System to Enhance High-Speed Intersection Safety", Journal of Transportation Research Board, No. 2215, pp105-112, 2011

SYNERGISTIC ACTIVITIES

Collaboration with ODOT and AMATS on sensor development and testing for data acquisition and reliability improvement.

Collaboration with FirstEnergy, and Clean Fuels Ohio, and Ohio State University to promote plus-in electrical vehicle deployment in Ohio.

Collaboration with other national and regional University Transportation Centers to develop and apply green transportation energy.

Reviewing tech proposals and journal papers on safety, system reliability, and information technology for TRB.

Serving Transportation Technical Committees and Task Force for TRB

Serving as Chair of Intermodal and Logistics Committee of ASCE/T&DI

Collaborating on research project by Ohio DOT – "Evaluation and Analysis of Liquid Deicers in Winter Maintenance", with Xianming Shi and Michelle Akin, Western Transportation Institute,

Collaborating on project by US Department of Energy – "Charging Forward with Electric Vehicles in Ohio", with Cynthia Maves, Clean Fuels of Ohio.

CURRENT PROFESSIONAL ORGANIZATION AFFILIATIONS

Institute of Transportation Engineers (ITE)

American Society of Civil Engineers (ASCE)

ASCE – Transportation and Development Institute (T&DI)

Intelligent Transportation Society (ITS)

American Society of Highway Engineers (ASHE)

American Society of Engineering Education (ASEE)

Chinese Overseas Transportation Association (COTA)