Mehmet KILIÇARSLAN

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EDUCATION

Ph.D.   Computer Science, Purdue University, Indianapolis, USA, 2018
Dissertation: *Motion Paradigm to Detect Pedestrians and Vehicle Collision*
Advisor: Professor Jiang Yu Zheng

M.S.   Computer Science, Indiana University, Bloomington, 2012

B.S.   Mathematics, Selcuk University, Konya, Turkey, 2008
Advisor: Professor Kemal Aydin

WORKING EXPERIENCE

2022 – Current   Assistant Professor
Department of Computer Engineering, Eskisehir Technical University, TURKEY

2019 – 2022   Dr. Lecturer
Department of Computer Engineering, Eskisehir Technical University, TURKEY

2014 – 2018   Software Developer
Swanson Lab, School of Optometry, Indiana University, Bloomington
Design and implement software for Optical coherence tomography (OCT) and Adaptive optics scanning laser ophthalmoscope (AOSLO) imaging systems to diagnose glaucoma.

RESEARCH EXPERIENCES

2012–2018   Graduate Student Researcher, Center for Visual Information Sensing and Computing (VISC), Purdue University, Indianapolis

PROJECTS

2014–2016   Researcher
Technology and Enhancements to Improve Pre-Crash Safety, US Department of Transportation (USDOT) Research and Innovation Technology Administration (RITA)

RESEARCH INTERESTS

Computer vision, Image and video processing, Intelligent transportation systems

FELLOWSHIPS, GRANTS, AND AWARDS

2010–18 Full Scholarship for Master and PhD studies in USA, Turkish Ministry of Education

2016 Travel Grant, International Conference on Pattern Recognition (ICPR)

2011 Fellowship, Indiana University, Bloomington ($1000)

2010 Fellowship, Indiana University, Bloomington ($1000)

PUBLICATIONS

Peer-Reviewed International Journal Articles

2022 Mehmet Kilicarslan and Jiang Yu Zheg. "DeepStep: Direct detection of pedestrian walking from motion." *IEEE T-IV*, Under review

Mehmet Kilicarslan and Tansu Temel. "Motion-aware vehicle detection in driving videos." *Turkish Journal of Electrical Engineering and Computer Sciences* Sci, 30, (2022), 63-78

2018 M Kilicarslan and J Y Zheng. Predict Vehicle Collision by TTC From Motion Using a Single Video Camera. *IEEE Transactions on Intelligent Transportation Systems*, pages 1–12, 5 2018

Peer-Reviewed International Conferences

2019 Guo Cheng, Jiang Yu Zheng, and Mehmet Kilicarslan. Semantic segmentation of road profiles for efficient sensing in autonomous driving. In *2019 IEEE Intelligent Vehicles Symposium (IV)*, pages 564–569, 2019

2017 Mehmet Kilicarslan and Jiang Yu Zheng. Direct vehicle collision detection from motion in driving video. In *Intelligent Vehicles Symposium (IV), 2017 IEEE*, pages 1558–1564. IEEE, 2017

2016 M. Kilicarslan and J. Y. Zheng. Bridge motion to collision alarming using driving video. In *2016 23rd International Conference on Pattern Recognition (ICPR)*, pages 1870–1875, Dec 2016

M. Kilicarslan, J. Y. Zheng, and K. Raptis. Pedestrian detection from motion. In *2016 23rd International Conference on Pattern Recognition (ICPR)*, pages 1857–1863, Dec 2016

Z. Wang, J. Y. Zheng, and M. Kilicarslan. Visualizing road appearance properties in driving video. In *2016 Nicograph International (NicoInt)*, pages 25–28, July 2016

2015	M. Kilicarslan, J. Y. Zheng, and A. Algarni. Pedestrian detection from non-smooth motion. In *2015 IEEE Intelligent Vehicles Symposium (IV)*, pages 487–492, June 2015
2014	M. Kilicarslan and J. Y. Zheng. Visualizing driving video in temporal profile. In *2014 IEEE Intelligent Vehicles Symposium Proceedings*, pages 1263–1269, June 2014
	M. Kilicarslan and J. Y. Zheng. Detecting walking pedestrians from leg motion in driving video. In *17th International IEEE Conference on Intelligent Transportation Systems (ITSC)*, pages 2924–2929, Oct 2014
2012	M. Kilicarslan and J. Y. Zheng. Towards collision alarming based on visual motion. In *2012 15th International IEEE Conference on Intelligent Transportation Systems*, pages 654–659, Sept 2012
	M. Kilicarslan and J. Y. Zheng. Modeling potential dangers in car video for collision alarming. In *2012 IEEE International Conference on Vehicular Electronics and Safety (ICVES 2012)*, pages 195–200, July 2012

INVITED TALKS

2015	"Pedestrian Detection from Leg Motion in Driving Video." Crash Imminent Safety (CrIS) University Transportation Center(UTC) Annual Meeting, Ohio State University. Columbus, Ohio, USA. Sep 24.

PROGRAMMING EXPERTISE

Python, Matlab, Tensorflow, Keras, PyTorch, OpenCV

SERVICE

Reviewer, *IEEE Transactions on Intelligent Transpiration Systems*

Reviewer, *IEEE Transactions on Intelligent Vehicles*

Reviewer, *Intelligent Transpiration Systems Conferences*

Updated January 2022