VTTI Publications List – June 2021


Ahmadian, M. (2001). On the design of magneto rheological recoil dampers for fire out of battery control. Tenth Gun Dynamics Symposium, Dallas, TX.


Alden, A. (2017, November). *The I-81 Corridor Coalition program*. Bristol MTPO Executive Board Meeting, Bristol, TN.

Alden, A. (2017, November). *The I-81 Corridor Coalition program*. Kingsport MPO Executive Board Meeting, Kingsport, TN.


Beeman, S., Kemper, A., Madigan, M., & Duma, S. M. (2010). Effects of muscle activation on occupant kinematics in frontal impacts. Sixth Ohio State Injury Biomechanics Symposium, Columbus, OH.


Bhagavathula, R., & Gibbons, R. B. (2015). A new approach to analyze nighttime roadway visibility through distribution analysis of detection distances. 28th Session of the CIE, Manchester, United Kingdom.


Bryce, J. M., Flintsch, G. W., Katicha, S. W., & Diefenderfer, B. K. (2013). Enhancing network-level decision making through the use of a structural capacity index. Transportation Research Record: Journal of the Transportation Research Board, 2366, 64-70. https://doi.org/10.3141/2366-08


Chaka, M. (2018, April). Key topics to consider during the crash avoidance, crashworthiness, and occupant protection discussion. Expert panel discussion and presentation, 100 Series Working Group, Stakeholder Meeting, FMVSS Considerations for Automated Driving Systems, Washington, DC.


44


Dion, F., Rakha, H. A., Zhang, Y., & Manar, A. (2001, March). Examination of the use of an intelligent transportation system to promote transit movements on urban arterials [In French]. 36th Annual Meeting of the Quebec Transportation and Road Association, Laval, Quebec.


https://doi.org/10.1061/41104(377)35


Elhenawy, M., & Rakha, H. (2014). Random forest travel time prediction algorithm using spatiotemporal speed measurements. 21st ITS World Congress, Detroit, MI.


Fitch, G. M., Hanowski, R. J., & Perez, M. A. (2014). *Drivers' visual behavior when using handheld and hands-free cell phones.* Fourth International Symposium on Naturalistic Driving Research, Blacksburg, VA.


Flintsch, G. (2017, October). Use of high speed deflectometers for last generation of pavement management (Uso de los deflectógrafos de alta velocidad para la gestión de pavimentos de última generación) [keynote presentation]. International Symposium on Technological Innovation in Roadway, Guadalajara, Mexico.


Flintsch, G. W., Bryce, J., & Katicha, S. (2014). Capabilities and potential applications of continuous pavement deflection measuring devices. ASCE Geo-Congress, Atlanta, GA.


Gellatly, A. W., Petersen, A. D., Ahmadian, M., & Dingus, T. A. (1997). The Virginia Tech Center for Transportation Research Smart Truck - An instrumented heavy vehicle for evaluation of intelligent transportation systems. 1997 SAE International Truck and Bus Meeting and Exposition, Cleveland, OH.


Hanowski, R. (2017, October). *Optimizing driving data: What to collect and how it can be used* [Invited presentation]. ATA Management Conference and Exhibition, Orlando, FL.

Hanowski, R. (2017, November). Evaluating truck drivers’ speed and seat-belt use before and after the implementation of a non-video onboard monitoring system. IRF World Road Meeting, Delhi, India.


National Tank Truck Carriers Safety and Security Council Annual Meeting, Reno, NV.

Hanowski, R. J. (2000). *The impact of local/short haul operations on driver fatigue*
[Doctoral dissertation, Virginia Tech]. Blacksburg, VA.
http://hdl.handle.net/10919/28416


https://doi.org/10.4172/2329-6879.S1.021


Hanowski, R. J., & Dingus, T. A. (1997, October). *Will advanced vehicle systems lead to the increased mobility of elderly drivers?* 11th Penn State Gerontology Center Conference on Social Structures and Mobility in the Elderly, University Park, PA.


*Development of enhanced pavement deterioration curves (VTRC 17-R7)*. Virginia  
Transportation Research Council.

Katicha, S. W., & Flintsch, G. (2015, January). *Field demonstration of the traffic speed  
deflectometer in New York* [Paper No. 15-4630]. Transportation Research Board  
94th Annual Meeting, Washington, DC.

Katicha, S. W., & Flintsch, G. W. (2011, March). *Use of fractional order viscoelastic models  
to characterize asphalt concrete*. First T&DI Congress - Integrated Transportation  
and Development for a better Tomorrow, Chicago, IL.

with the unnormalized Haar wavelet transform and Poisson's unbiased risk  
https://doi.org/10.1061/JTEPBS.0000160

condition and deterioration: Linear empirical Bayes approach*. Transportation  
Research Board 96th Annual Meeting, Washington, DC.

Katicha, S. W., Flintsch, G. W., Bryce, J., & Ferne, B. (2013). Wavelet denoising of TSD  
deflection slope measurements for improved pavement structural evaluation. *Computer-Aided Civil and Infrastructure, 29*(6).  
https://doi.org/10.1111/mice.12052

Katicha, S. W., Flintsch, G. W., & Ferne, B. (2012, January). *Analyzing repeatability of  
continuous deflection device measurement series* [Paper 12-1732]. Transportation  
Research Board 91st Annual Meeting, Washington, DC.

Katicha, S. W., Flintsch, G. W., & Ferne, B. (2013). Optimal averaging and localized weak  
spots identification for TSD deflection slope measurements. *Transportation  
Research Record: Journal of the Transportation Research Board, 2367*, 43-52.

method for comparing TSD and FWD measurements. *International Journal of  
Pavement Engineering, 15*(6), 532-541.

measure road ride quality*. Transportation Research Board 93rd Annual Meeting,  
Washington, DC.


Kemper, A., Stitzel, J. D., Sparks, J., & Duma, S. M. *Macro to micro approach characterizing human organs*. NHTSA Human Subjects Workshop,


Kondoh, T., & Furuyama, N. (2015). π number study on driving behavior: Example of braking behavior in car-closing situations. 18th International Conference of Perception and Action, Minneapolis, MN.


Lu, Y.-C., & Untaroiu, C. D. (2013). Quantifying material properties of liver parenchyma tissue using tensile testing and optimization techniques. AAAM 57th Annual Scientific Conference, Quebec, Canada.


McCall, R. M. (2018, April). *Getting to where we want to be* [keynote presentation]. Virginia Tech Services for Students with Disabilities Access & Inclusion Awards, VT SSD, Blacksburg, VA.


Palframan, K., & Alden, A. (2017, October). Reducing school bus/light-vehicle conflicts through connected vehicle communications. ITSVA/SITE Joint Conference, Richmond, VA.


Schaudt, W. A. (2018, March). It's crazy enough it just might work [panel member]. VT Entrepreneur Challenge, Blacksburg, VA.


Song, M. (2017, September). Countermeasures to detect and combat driver inattention in connected and automated environment. 5th Annual Distracted Driving Summit, Norfolk, VA.


Talley, W., Ng, M., Cetin, M., Rakha, H. A., & Park, B. (2016). *Multimodal freight distribution to support increased port operations.* University Transportation Centers Program, USDOT.


Turturici, M. (2018). Effects of driver impairment on crash risk: Results from 40 million miles of naturalistic driving data in the SHRP 2 Database. 97th Annual Meeting of the Transportation Research Board, Washington, DC.


Williams, V., McLaughlin, S., & Buche, T. (2016, August 30-September 1, 2016). *Selected lane position as motorcyclists approach and traverse intersections*. Fifth International Symposium on Naturalistic Driving Research, Blacksburg, VA.


