ATLAS CENTER
Advancing Transportation Leadership and Safety

SYMPOSIUM SERIES

HOSTED BY THE TEXAS A&M TRANSPORTATION INSTITUTE

Naturalistic Driving Data Analysis: From Data to the Truth

Naturalistic driving studies which collect data from instrumented vehicles driven by lay drivers in real-world settings offer the promise of truly understanding driver performance and behavior in order to improve traffic safety. This includes developing an understanding of how the driver interacts with and adapts to the vehicle, traffic environment, roadway characteristics, traffic control devices, and the environment and how collision risk is influenced by these factors and their interaction. However, gaining these insights is a data-mining and statistical challenge. Dr. Bao will discuss how these data can be used to discover truths about driver performance and behavior.

Dr. Shan Bao
University of Michigan
Transportation Research Institute
(UMTRI)

Tuesday, November 11, 2014
12:00-1:00 pm, Room 102, Gibb Gilchrist Bldg.
Lunch Provided
RSVP by 11/6/14 to b-lorenz@tamu.edu

Shan Bao is an assistant research scientist in UMTRI's Human Factors Group. She joined UMTRI in 2009, starting as a postdoctoral fellow after completing her Ph.D. in industrial engineering at the University of Iowa.

Dr. Bao's research interests focus on driver behavior modeling, driver distraction, naturalistic driving data analysis and driver-simulator study. Specifically, she has developed models of driver following and lane-keeping behavior using statistical and methodological techniques. She has also performed extensive analyses of various naturalistic driving databases to identify driver-behavior patterns and to identify predictors of crashes and near crashes that can be associated with different driver populations. Her research interests also include the use of UMTRI's driving simulator to study and test advanced driving-safety prevention techniques.

About the ATLAS Center:

Established as a Tier 1 University Transportation Center (UTC), the Center for Advancing Transportation Leadership and Safety (ATLAS Center) is committed to being an internationally recognized leader in research, education/workforce development, and technology transfer dedicated to finding and promoting integrated solutions for transportation safety. The ATLAS Center is housed jointly at the University of Michigan Transportation Research Institute (UMTRI), and the Texas A&M Transportation Institute (TTI).

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