



UNIVERSITY OF
MARYLAND

RELIABILITY ASPECTS OF CONNECTED AND AUTONOMOUS VEHICLES

FUTURE OF TRANSPORTATION LECTURE

Sponsored generously by Ford Motor Company

Thursday, October 4, 2018

Reception 5:30 pm | Lecture 6:00 pm

2164 Martin Hall, DeWALT Seminar Room



Guest Speaker

Dr. Vasiliy Krivtsov

Director of Reliability Analytics
Ford Motor Company

ABSTRACT

By way of introduction, the lecture will provide an overview of autonomous vehicle technologies, including but not limited to advanced driver assistance systems (ADAS) and object event detection and response (OEDR) systems. It will then focus on reliability aspects of connected and autonomous vehicle fleets, such as duty cycle and design life implications, hot and cold system redundancy considerations, reliability demonstration requirements. A detailed case study on advanced diagnostics and vehicle health monitoring will be discussed as an illustration.

BIO

Vasiliy Krivtsov is the Director of Reliability Analytics at the Ford Motor Company. He also holds the position of Adjunct Associate Professor at the University of Maryland, where he teaches a graduate course on advanced reliability data analysis. Krivtsov has earned a Ph.D. degree in Electrical Engineering from Kharkov National Polytechnic University (Ukraine) and a Ph.D. in Reliability Engineering from the University of Maryland. Krivtsov is the author and co-author of over 60 professional publications, including a book on Reliability Engineering & Risk Analysis, and six inventions on statistical algorithms of Ford. He is a Vice Chair of the International Reliability Symposium (RAMS®) Tutorials Committee and a Senior Member of IEEE. Further information on Dr. Krivtsov's professional activity is available at www.krivtsov.net.



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