



## Research on Autonomous and Connected Vehicles at Purdue University

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### Abstract

As the society and its needs evolve, and opportunities are made increasingly available through technological advancements, it is incumbent upon engineers to develop systems and operational policies to facilitate social and economic development. One emergent context of this challenge is that of autonomous and connected vehicles (CAV). As the society continues to yearn for safer, faster, and more convenient transport, increasing technological capabilities in vehicle autonomy and connectedness open up new frontiers towards addressing these needs. Since 2007, Purdue University's Centre For Next-Generation Transportation Systems (NEXTRANS) has carried out a multidisciplinary program of transportation research. In 2016, the U.S. Department of Transportation awarded a US\$2.4M grant to the University of Michigan, Purdue University, and other partners who created the Centre for Connected and Automated Transportation (CCAT). CCAT is advancing research in the field of transportation safety and mobility via CAV and connected infrastructure. In his presentation, Prof. Labi will discuss the Centre's mission, its 5 focus areas, and the 6 categories of the research focus area. Finally, he will discuss opportunities for CAV and other research collaboration with universities in Hong Kong.

**Date:** 17 September 2018 (Monday)

**Time:** 17:30 – 18:30

**Venue:** Room Z414, 4/F, Block Z,  
The Hong Kong Polytechnic University,  
Hung Hom, Kowloon, Hong Kong

### Speaker's Biography

Prof. Samuel Labi, PhD 2001 Purdue, is a Professor at Purdue University's School of Civil Engineering. He is also the Director of Purdue's Next Generation Transportation Systems Center (NEXTRANS) and Associate Director of the University Transportation Center for Connected and Autonomous Vehicles (CCAT). He has published over 100 scientific articles and 2 textbooks. Prof. Labi serves as Editorial Board Member for American Society of Civil Engineers (ASCE) Journals of Risk and Uncertainty and the Journal of Infrastructure Systems. He is the Chair of ASCE's Committee on Planning, Economics And Finance, secretary of TRB's Committee On Asset Management, and member of the ASCE Committees for Advanced Technologies and Infrastructure Systems. His major research awards include ASCE's Frank Masters Award (2014) for outstanding and innovative work in advancing the area of transportation systems, and the Transportation Research Board's K.B. Woods (2008) and D. Grant Mickel (2018) awards for outstanding journal papers in design/construction and operations & maintenance, respectively.

**\*\*\* All Interested Are Welcome \*\*\***

For further information, please contact Prof. Anthony Chen at Tel. 3400-8327.

Free Admission. Please reserve your seat with Ms. Connie F.Y. Lam by email: [fyc.lam@polyu.edu.hk](mailto:fyc.lam@polyu.edu.hk).

Certificates of attendance will be provided to participants who attend the whole seminar.