

METRANS Research Seminar

TRACKING TRUCK FLOWS WITH PROGRAMMABLE MOBILE DEVICES FOR DRAYAGE EFFICIENCY ANALYSIS

Date: Saturday, November 14, 2015

Time: 4:00-5:00pm

Seminar Location: CSULB CBA 125

Reception in CBA Courtyard 5:00-6:00pm

Parking: Lot 15 - \$5 pass from the yellow dispenser

**RSVP by November 10 to
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Abstract: Inefficient use of drayage trucks results in pollution and congestion. A full measure of the current state of drayage efficiency and future changes as trade volume grows can only be obtained through detailed tracking of drayage activities. Tablet computers provide an ideal platform for the design of an electronic on-board recorder for such tracking. In this seminar, we will present our experience with the development of such a device and finding from the data collected.

A thorough understanding of truck flow inefficiencies and freight flows patterns not only provides useful data for the trucking industry to devise strategies for productivity improvement, but also helps stakeholders in supply chain management, including the ports and terminal operators, to identify the sources of inefficiency in drayage, quantify the impacts of these inefficiencies, and develop solutions. This is especially important in Southern California, home to the largest port complex in the United States and a large and growing population.



Shui Lam

Dr. Shui Lam joined the Computer Engineering & Computer Science Department at California State University Long Beach in 1985 after teaching at McGill University in Montreal, Canada, and at UC Riverside. She also has several years of computer science industry experience as a technical planner and a senior systems analyst. Dr. Lam received her undergraduate education in Physics at the Chinese University of Hong Kong, and earned her master's degree and doctorate in Computer Science from Pennsylvania State University. Her areas of research include modeling of scheduling and transportation problems, and high performance computing. She has co-authored a book on computer capacity planning and published articles on parallel and cloud computing, scheduling, and issues related to goods movement.



**A METRANS Transportation Research Seminar
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