

**The Institute for Sensing and Embedded Network  
Systems Engineering**  
Proudly Presents

**Perspectives on Leveraging Transportation Sensor Data for System  
Evaluations and Performance Measurement: A Case for a Trusted  
Broker?**

Over the past 20 years, the transportation engineering field has witnessed a data revolution—some might say that we have transitioned from a data “desert” to a data “ocean.” Join Prof. Robert Bertini as he traces aspects of his research career over this period and describes the ways in which this data “ocean” has inspired, enabled, and influenced his work. We know that most transportation management, logistics, and operations systems, as well as intelligent transportation system (ITS) applications are founded upon a sensor infrastructure, and sometimes the sensor data are archived in a systematic manner. If managed properly, archived ITS data from sensors and mobile probes can provide a unique foundation for scientific discovery in the traffic and transportation field. Also to be presented will be some approaches for meeting challenges and opportunities in the civil and environmental engineering field which continue to be people-serving, relevant, and critical for the future of our society.

**Speaker**

Robert L. Bertini, Ph.D., P.E. is an Associate Professor of Civil and Environmental Engineering at the California Polytechnic State University, San Luis Obispo. Dr. Bertini’s primary research interests are in sustainable transportation solutions, traffic flow theory informed by empirical and experimental measurements, intelligent transportation systems (ITS), multimodal transportation “big data” for improving performance measurement, planning and operations, and proactive traffic management and operations.

*For additional information about this lecture, please contact:  
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11:00 a.m. – 12:00 p.m.  
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777 Glades Rd, EE 405  
Boca Raton, FL**