

The University of South Florida presents



<https://idscbigdata.com/>

## Interdisciplinary Data Sciences Consortium Seminar Series

November 16, 2018

2:00-3:00pm

Location: CMC 109

**Featuring Dr. Devashish Das**  
Industrial Engineering  
University of South Florida

**Title: DATA ANALYTICS FOR ADVANCING THE PRACTICE OF EMERGENCY MEDICINE**

Abstract: Hospital emergency departments (ED) in the United States are overburdened in increasing patient census. At the same time, vast amounts of healthcare provider and patient interaction data are available from Real-Time Location Systems and Electronic Health Records. These data can be used to develop data-driven system engineering methods to monitor the healthcare delivery process. This presentation will discuss some recent research on functional regression-based statistical monitoring methods for identifying inefficiencies in patient flow in the EDs and the application of counting processes martingales to develop a new timeliness of care metrics for individual patients.

To learn more, visit: <http://eng.usf.edu/~devashishdas>



Biography: Devashish Das is an assistant professor in the department of Industrial and Management Systems Engineering at the University of South Florida. His research interest lies at the intersection of statistics, information theory and operations research with a focus on advancing the science of healthcare delivery. He received his B. Tech (Hons.) and Ph.D. degrees from the Indian Institute of Technology - Kharagpur, India, and the University of Wisconsin - Madison respectively. He is a member of INFORMS and IISE. He has been a finalist for the Wagner Prize.

IDSC Contact: Dr. K. Ramachandran  
University of South Florida 4202 E Fowler Ave, CMC317 Tampa, FL 33620-5700  
E-mail: [ram@usf.edu](mailto:ram@usf.edu)  
Telephone: (813) -974-1270