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# Crowd Sensing Research Challenges and Opportunities

## Abstract


Thanks to the massive use of smart-phones, over 1 billion people now have access to sensing, computation, and connectivity, making it possible to harness the power of the crowd to collect and share data about their surroundings and experiences on a massive scale. Crowd sensing is a novel data collection paradigm that leverages this vast mobile sensor network, making it possible to expand the scope of research endeavors and address civic issues without requiring the purchase of specialized sensors or the installation and maintenance of network infrastructure. Data collected using such applications may come from unexpected yet interesting and valuable sources and may allow for collecting data in previously inaccessible locations and contexts. However, this new data collection paradigm introduces several research challenges and opportunities. Hence this talk will survey the latest developments in crowd-sensing and its potential application to logistic and product distribution. In this new scenario the mobile sensor may even take the form of autonomous vehicles and drones.


## Biography

Luis G. Jaimes is an Assistant Professor at the Department of Computer Science at Florida Polytechnic University. He received a BS degree in Mathematics from the Universidad Industrial de Santander, Colombia, in 1999, a MS degree in Scientific Computing from the University of Puerto Rico in 2004, and a MS degree in Computer Science and a Ph.D. degree in Electrical Engineering from the University of South Florida in 2012 and 2015, respectively. His current research interests include health informatics, economic incentives in wireless networks, data privacy, machine learning, and ubiquitous and pervasive computing.